

CAMPUS WELLNESS AND ENGAGEMENT PLATFORM

FIT@NWU



YOUR FITNESS, YOUR CAMPUS, YOUR WAY

USER MANUAL

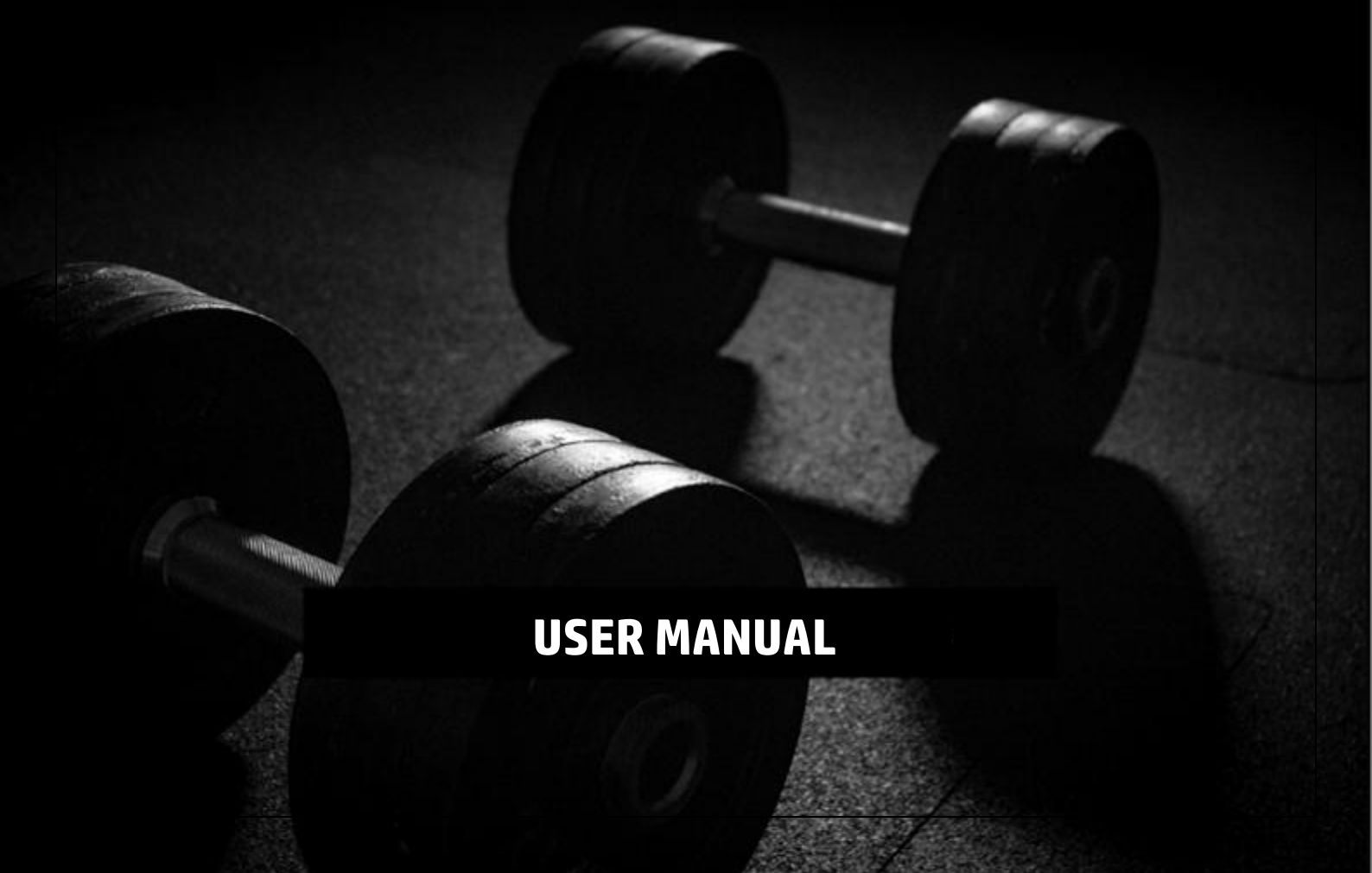


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FIT@NWU GYM MANAGEMENT SYSTEM (v1.0.0)

TECHNICAL DETAILS

ASPECT	SPECIFICATION
System Name	FIT@NWU
Version	1.0.0
Type	Web-based Application (Full-Stack)
Organization	North-West University (NWU)
Purpose	Comprehensive facility management, membership tracking, class booking, and fitness analytics for gym operations.
Document Version	1.0
Last Updated	23 October 2025

1. SYSTEM REQUIREMENTS

1.1 USER DEVICE REQUIREMENTS

The system utilizes a fully responsive design, supporting a wide range of devices.

DEVICE TYPE	OPERATING SYSTEM	MINIMUM RAM	MINIMUM RESOLUTION
Desktop/Laptop	Windows 10+, macOS 10.15+, or Linux	4 GB	1280x720
Mobile/Tablet	iOS 14+ (iPhone 7+), Android 8.0+ (Oreo)	2 GB	360x640

1.2 BROWSER COMPATIBILITY

SUPPORTED

- Google Chrome (100+), Mozilla Firefox (100+), Microsoft Edge (100+), Safari (15+).

REQUIRED FEATURES

- JavaScript, Cookies, Local/Session Storage, WebRTC (for QR scanning), and modern CSS (Grid/Flexbox).

2. SYSTEM SUPPORT

- **UPTIME TARGET**
 - 99.9% SLA (Tier 3 hosting recommended).
- **ADMINISTRATION CONTACT**
 - sys.admin.fit.nwu@gmail.com
- **DOCUMENTATION**
 - Comprehensive User Manual and Technical Documentation available in the codebase.
- **KEY FEATURES**
 - Fully responsive, Dark Mode implemented, built-in analytics dashboard, and CSV export functionality.

FIT@NWU - LOGIN PAGE

LOGIN PAGE VIEW

The screenshot shows the FIT@NWU Login page. At the top left is the NWU logo, and at the top right is the FIT@NWU logo with the tagline "YOUR FITNESS, YOUR CAMPUS, YOUR WAY". The main content area is dark blue and contains a white login form. The form has the following elements: a "Username" label above a text input field (callout 1), a "Password" label above a text input field (callout 2), a "Keep me signed in." checkbox (callout 3), a purple "LOGIN" button (callout 4), a "Don't have an account? Create account" link (callout 5), a "Forgot your password?" link (callout 6), and a "Use NWU-CAS" link (callout 7). At the bottom of the page, there is a copyright notice: "© 2025 North-West University. All rights reserved." and links to "Privacy Statement" and "Terms & Conditions".

LOGIN PAGE DESCRIPTION

#	ELEMENT NAME	DESCRIPTION
1	Username Field	This is where you enter your unique Username . This is the exact username you provided during the application registration process. If you have not registered yet, please proceed to click the " Create account " link to create a new profile account.
2	Password Field	This is where you enter your unique Password . For security, the input is masked (shown as dots or asterisks). This is the exact password you provided during registration, or the newly set password following a password change or reset. If you do not remember your password, please proceed to click the " Forgot your password? " link to reset your password.
3	"Keep me signed in." Checkbox	Check this box to keep your session active and remain signed in on the current device for an extended period. This saves you the step of re-entering your credentials upon return. Security Note: Only use this feature on a secure, private device, and not on shared or public computers.
4	LOGIN Button	Click this purple LOGIN button after you have accurately entered both your Username and Password . This action submits your credentials for authentication and grants you access to the FIT@NWU application.
5	"Create account" Link	Click this link if you do not currently have an account . This will redirect you to the registration page where

		you can create a new profile to access the FIT@NWU application.
6	"Forgot your password?" Link	Click this link to initiate the password reset process if you are unable to recall your current password. You will be guided through steps to verify your identity and set a new password .
7	"Use NWU-CAS" Link	This link offers an alternative, single sign-on method. Clicking this allows you to authenticate using the NWU-CAS (Central Authentication Service) , which is the primary NWU authentication services. Use this option if you prefer to bypass local credentials and use your institutional login.

POSSIBLE ERRORS YOU MIGHT ENCOUNTER WITH THE LOGIN PAGE

#	ERROR NAME	DESCRIPTION	CAUSE OF ERROR	ACTION REQUIRED
1	Your membership is inactive and your account has been blocked from logging in. Please contact the system administrator for assistance_Code:403	Account Blocked (Forbidden)	The user's login credentials are valid, but their linked MembershipStatus is set to inactive. The server explicitly blocks the login based on this status.	You must contact the system administrators for assistance (sys.admin.fit.nwu@gmail.com).
2	Login failed: Invalid credentials_Code:401	Invalid Credentials (Unauthorized)	The system successfully connected to the server, but the username or password combination does not match any record in the database.	Re-enter your Username and Password carefully. Check for common errors such as ensuring Caps Lock is off, as passwords are case-sensitive. If you are certain your credentials are correct, use the Forgot your password? link.
3	Login failed: No message from server_Code:400	Missing Data (Bad Request)	The client (browser) sent the login request, but one or both required fields (Username or Password) were empty. This is a client-side validation failure caught by the server's input checks.	Input validation failed. Ensure that both the Username and Password fields are completely filled out before clicking the LOGIN button.

4	Login failed: Server_Error_Code:500	Internal Server Error	A critical error occurred on the server during the processing of your request (e.g., a database connection drop, a code crash, or an unhandled exception). The system cannot determine the specific cause.	The problem is with the FIT@NWU server . Wait 5 to 10 minutes and try again, as the issue may be temporary. If the error persists, report this specific message and code (Code:500) to the system administrators (sys.admin.fit.nwu@gmail.com).
5	Login failed: No response from server_Network Error	No Response from Server	The user's device could not establish or maintain a connection with the API server. This can be due to local network issues or the server being completely offline/unreachable.	Check your Internet Connection and Network Status . If your internet is working, the server may be offline. Try again later or contact support if the issue affects other NWU services.

LOGIN PAGE SYSTEM ACTION FLOWS

#	ELEMENT	ACTION	RESULT OF ACTION
1	LOGIN Button	Clicks to submit Username and Password	Success: The application reads the user's role and redirects the user to their appropriate dashboards. Failure: Displays a error message above the form (e.g., Login failed: Invalid credentials_Code:401).
2	Keep me signed in (Checkbox)	Checks of unchecks the box.	Checked: Session data is saved to localStorage (persistent across browser closures). Unchecked: Session data is saved to sessionStorage (cleared when the browser tab is closed).
3	Use NWU-CAS (Link)	Clicks to use central NWU credentials.	The browser is redirected to the external CAS server login page. After successful external login, the browser returns to the local system to complete the session.
4	Create account (Link)	Clicks to navigate to the registration form.	The user immediately gets redirected to the Registration page.
5	Forgot your password? (Link)	Clicks to start the password recovery process.	The user immediately gets redirected to the Forgot Password page.

FIT@NWU – REGISTRATION PAGE

REGISTRATION PAGE VIEW

The screenshot shows the FIT@NWU registration page. At the top left is the NWU logo, and at the top right is the FIT@NWU logo with the tagline "YOUR FITNESS, YOUR CAMPUS, YOUR WAY". The main content area is dark blue with a white registration form in the center. The form is titled "FIT@NWU REGISTER". It contains the following fields: "First name" (with placeholder "Please enter your first name"), "Surname" (with placeholder "Please enter your surname"), "Date of Birth" (with a date picker showing "dd/mm/yyyy"), "Email" (with placeholder "Enter your email"), "Username" (with placeholder "Please enter your username"), and "Password" (with placeholder "Please enter your password"). Below these fields is a blue "REGISTER" button. At the bottom of the form, there is a link that says "Already have an account? Login". Eight red arrows with numbers 1 through 8 point to the following elements: 1 points to the First name field, 2 points to the Surname field, 3 points to the Date of Birth field, 4 points to the Email field, 5 points to the Username field, 6 points to the Password field, 7 points to the REGISTER button, and 8 points to the Login link.

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REGISTRATION PAGE DESCRIPTION

#	ELEMENT NAME	DESCRIPTION
1	First name Field	Enter your legal first name (e.g., John). This is a required field for profile creation.
2	Surname Field	Enter your legal surname (e.g., Smith). This is a required field for profile creation.
3	Date of Birth Field	Select your date of birth using the date picker. This is a required field and is stored in YYYY-MM-DD format.
4	Email Field	Enter a valid and active email address. This is a required field and is used for account verification and password recovery. Must be a valid email format.
5	Username Field	Choose a unique username (e.g., jsmith123). This is a required field and will be your permanent login user.
6	Password Field	Set a strong password. This is a required field and must be at least 6 characters long for security purposes. For security, the input is masked (shown as dots or asterisks). This will be your permanent login password unless changed or resetted.
7	REGISTER Button	Click this button after filling out all fields. This submits your data to the server, creates your user profile, and initializes your account. This action redirects you to the Login page upon successful registration.

8	"Login" Link	Click this link if you already have an account. This will redirect you back to the Login page.
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POSSIBLE ERRORS YOU MIGHT ENCOUNTER WITH THE REGISTRATION PAGE

#	ERROR NAME	DESCRIPTION	CAUSE OF ERROR	ACTION REQUIRED
1	Registration failed (400): Email already in use	A user profile already exists with the email address you entered.	The server checked the database and found that the UserEmail is already tied to an existing account.	Check the email address for typos. If it is correct, use the "Login" link and the "Forgot your password?" process to recover the existing account.
2	Registration failed (400): Validation failed	One or more required fields were missing, or the input did not meet the validation rules.	This happens if you leave a required field empty or if the password is less than 6 characters, or if the email is not in a valid format.	Review all fields. Ensure First Name, Surname, Date of Birth, Email, Username are filled, and the Password is 6 characters or longer.
3	Registration failed (500): No message from server	An Internal Server Error occurred that prevented the successful creation of the database records.	A critical error occurred on the server side (e.g., database connection failure) during the registration process.	The problem is with the FIT@NWU server. Wait 5 to 10 minutes and try again, as the issue may be temporary. If the error persists, report this specific message and code (Code:500) to the system administrators (sys.admin.fit.nwu@gmail.com).
4	Registration failed: No response from server	The client could not connect to the server to submit the registration data.	Your network connection is unstable, or the server is completely offline/unreachable.	Your network connection is unstable , or the server is completely offline/unreachable.

REGISTRATION PAGE SYSTEM ACTION FLOWS

#	ELEMENT	ACTION	RESULT OF ACTION
1	REGISTER Button	Clicks to submit all user profile data.	Success: A success message is displayed, and the user is redirected to the Login page after 2 seconds . Failure: An error message is displayed above the form.
2	"Login" Link	Clicks to return to the login screen.	The user immediately gets redirected to the Login page.

FIT@NWU – FORGOT PASSWORD PAGE

FORGOT PASSWORD PAGE VIEW

The screenshot shows the first step of the password reset process. The page has a dark blue header with the NWU logo on the left and the FIT@NWU logo with the tagline 'YOUR FITNESS, YOUR CAMPUS, YOUR WAY' on the right. The main content area is dark blue. In the center, there is a white rounded rectangle containing the text 'FIT@NWU RESET PASSWORD'. Below this, it says 'Please provide a registered email account:'. There is a text input field for the email. Below the input field is a blue button labeled 'Send OTP'. At the bottom of the white box is a link that says 'Return to Login?'. Red arrows with numbers 1, 2, and 3 point to the email input field, the 'Send OTP' button, and the 'Return to Login?' link respectively. At the bottom of the page, there is a small copyright notice: '© 2025 North-West University. All rights reserved. Privacy Statement | Terms & Conditions'.

FIT@NWU
RESET PASSWORD

Please provide a registered email account:

Enter your registered email

Send OTP

Return to Login?

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The screenshot shows the second step of the password reset process. The page layout is the same as the first screenshot. The white rounded rectangle now contains the text 'FIT@NWU RESET PASSWORD' followed by 'OTP sent to your email.'. Below this, it says 'Enter the OTP sent to your email:'. There is a text input field for the OTP. Below the input field is a blue button labeled 'Verify OTP'. At the bottom of the white box is a link that says 'Return to Login?'. Red arrows with numbers 4 and 5 point to the OTP input field and the 'Verify OTP' button respectively. The copyright notice at the bottom remains the same.

FIT@NWU
RESET PASSWORD

OTP sent to your email.

Enter the OTP sent to your email:

Enter OTP

Verify OTP

Return to Login?

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The screenshot shows the third step of the password reset process. The page layout is the same. The white rounded rectangle now contains the text 'FIT@NWU RESET PASSWORD' followed by 'OTP verified. You can reset your password.'. Below this, it says 'Please enter your new password:'. There is a text input field for the new password. Below this, it says 'Please confirm your new password:'. There is another text input field for the confirmation. Below the confirmation field is a blue button labeled 'Reset Password'. At the bottom of the white box is a link that says 'Return to Login?'. Red arrows with numbers 6, 7, and 8 point to the new password input field, the confirmation input field, and the 'Reset Password' button respectively. The copyright notice at the bottom remains the same.

FIT@NWU
RESET PASSWORD

OTP verified. You can reset your password.

Please enter your new password:

Enter new password

Please confirm your new password:

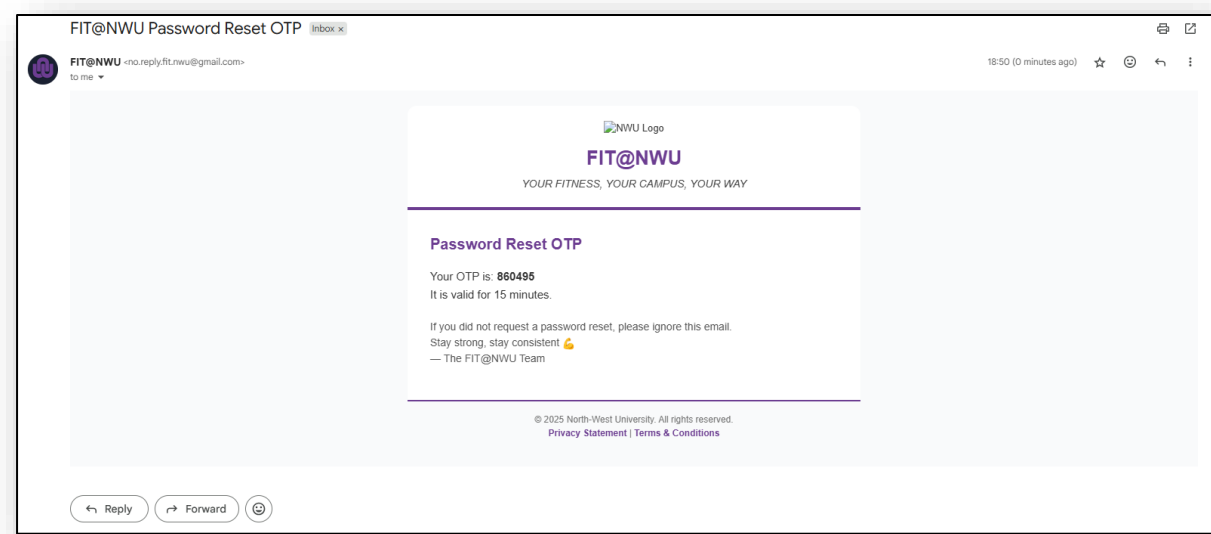
Confirm new password

Reset Password

Return to Login?

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OTP VERIFICATION EMAIL



FORGOT PASSWORD PAGE DESCRIPTION

#	ELEMENT NAME	DESCRIPTION
1	Email Field	Enter the registered email address associated with your FIT@NWU account.
2	Send OTP Button	Click to request a 6-digit One-Time Password (OTP) . The OTP is generated and emailed to the address provided and is valid for 15 minutes .
3	“Return to Login?” Link	Click this link to abandon the password reset process and return to the Login page.
4	OTP Field	Enter the 6-digit code you received in your registered email inbox.
5	Verify OTP Button	Click to submit the OTP. The system verifies that the code is correct and has not expired .
6	New Password Field	Enter your new, strong password . It must be at least 6 characters long .
7	Confirm Password Field	Re-enter the new password exactly to ensure consistency and prevent typos.
8	Reset Password Button	Click to securely update your account with the new password. This action completes the reset process.

POSSIBLE ERRORS YOU MIGHT ENCOUNTER WITH THE FORGOT PASSWORD PAGE

#	ERROR NAME	DESCRIPTION	CAUSE OF ERROR	ACTION REQUIRED
1	Email not found (404)	The system cannot find any registered account linked to the provided email address.	The email entered does not match a email registered.	Check the Email Field for typos and ensure you are using the exact email address you registered with.
2	Server error while sending OTP (500)	The system encountered a problem while generating the OTP or sending the email.	Failure to connect to the database or the external mail server.	Wait 5 to 10 minutes and try again. If the issue persists, report the server error to the system administrators (sys.admin.fit.nwu@gmail.com).
3	Invalid OTP (400)	The 6-digit code entered does not match the one generated for the user.	You made a typo when entering the code, or you are using a code from an older, invalid request.	Re-enter the code carefully. Ensure you are using the code from the most recent email you received.
4	OTP expired, please request a new one (400)	The entered OTP is correct, but the 15-minute validity window has passed.	The current time is past the valid time recorded in the database.	Click the "Return to Login?" link and start the Forgot your password? process again to generate a new OTP.
5	Passwords do not match	The values entered in the New Password and Confirm Password fields are different.	A simple typo when confirming the new password.	Ensure the New Password and Confirm Password fields are identical and meet the minimum 6-character length requirement.
6	Server error while resetting password (500)	The system encountered a problem while attempting to update the new password in the database.	The database update operation failed (e.g., connection lost).	Wait 5 to 10 minutes and try again. If the issue persists, contact the system administrators (sys.admin.fit.nwu@gmail.com).

FORGOT PASSWORD PAGE SYSTEM ACTION FLOWS

#	ELEMENT	ACTION	RESULT OF ACTION
1	Send OTP Button	Clicks to request the verification code.	Success: Displays "OTP sent to your email." The system: 1. Generates a 6-digit OTP . 2. Sends the email. The screen transitions to the Verify OTP view. Failure: Displays an error message (e.g., "Email not found"). The screen remains on the Send OTP view.

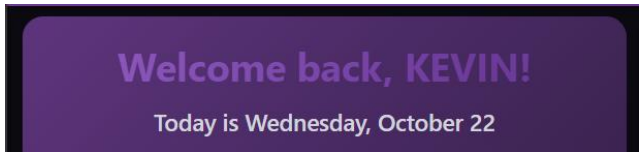
2	Verify OTP Button	Clicks to confirm identity with the code.	Success: Displays "OTP verified. You can reset your password." The screen transitions to the Reset Password view. Failure: Displays an error message (e.g., "Invalid OTP" or "OTP expired"). The screen remains on the Verify OTP view.
3	Reset Password Button	Clicks to finalize the password change.	Success: Displays "Password reset successfully! Redirecting to login. The user is redirected to the Login page after 3 seconds . Failure: Displays an error message (e.g., "Passwords do not match"). The screen remains on the Reset Password view.
4	"Return to Login?" Link	Clicks to abort the process.	The user immediately gets redirected to the Login page.

FIT@NWU – STUDENT DASHBOARD PAGE

STUDENT DASHBOARD PAGE INTRODUCTION

Welcome to the **FIT@NWU Student Dashboard**! This personalized page is your hub for tracking fitness activity, managing class bookings, and staying informed about campus gym facilities at North-West University.

ACCESSING YOUR DASHBOARD



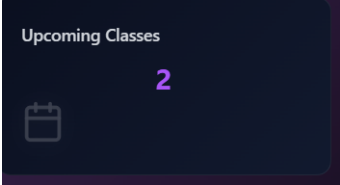
You are greeted with: "**Welcome back, (your name)**"

The current date is displayed: "**Today is (today's date)**"

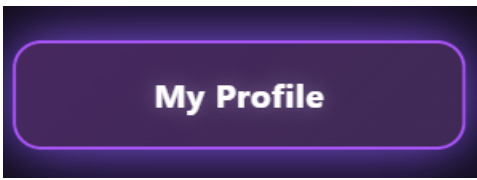
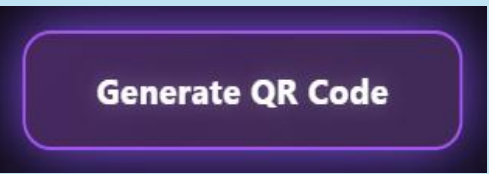
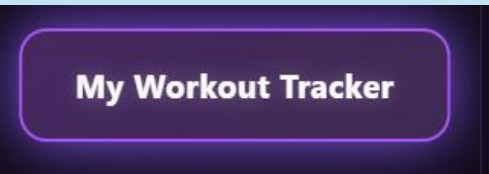
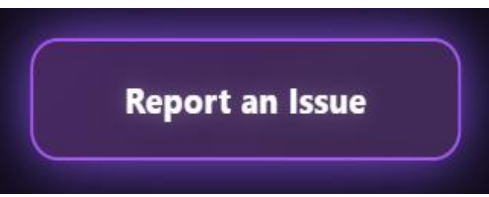
STUDENT DASHBOARD PAGE FITNESS STATS AT A GLANCE

The dashboard provides a quick, visual summary of your recent activity in four key metric cards. Each card can be clicked to navigate directly to the relevant, detailed page.

<u>Metric</u>		<u>Purpose</u>
Total Visits	2	The total number of times you have entered the facility.
Avg Duration (min)	15.0	Your average visit time in minutes.

	The number of visits that meet the gym's defined 'completed' criteria.
	The number of classes you are currently booked for.

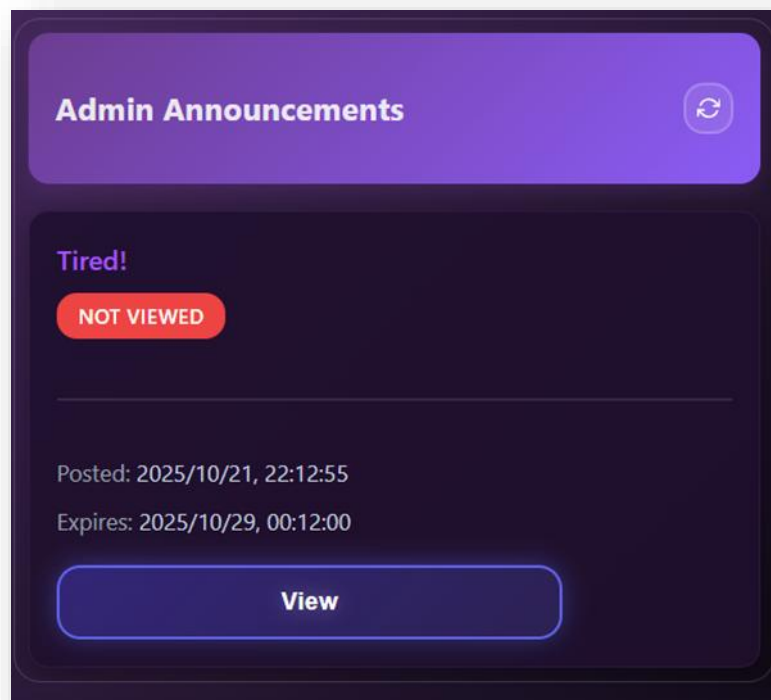
STUDENT DASHBOARD PAGE NAVIGATION MENU

Button	Purpose
	The main overview page you are currently viewing.
	View and update your personal information and membership details.
	Generate your personal QR code for quick facility access.
	View available classes, book new ones, or manage existing reservations.
	Track your personal workouts and progress (e.g., set templates, log exercises).
	Submit a report for any facility, equipment, or service problems.

➔LOGOUT

Securely end your session and return to the login page.

STUDENT DASHBOARD PAGE ADMIN ANNOUNCEMENTS



This section keeps you up-to-date with important information from the North-West University facility administration.

KEY FEATURES

- **VIEW ANNOUNCEMENTS**
 - If announcements are posted, they will appear in a table format with a **Title**, **Date Posted**, and **Details**.
- **REFRESH BUTTON**
 - Click the **Refresh** button in the top right of the section to load the most recent announcements from the server.
- **NO ANNOUNCEMENTS**
 - If there is nothing new, the section will display: **"No announcements available."**

STUDENT DASHBOARD ACCOUNT ACTIVATION VIEW

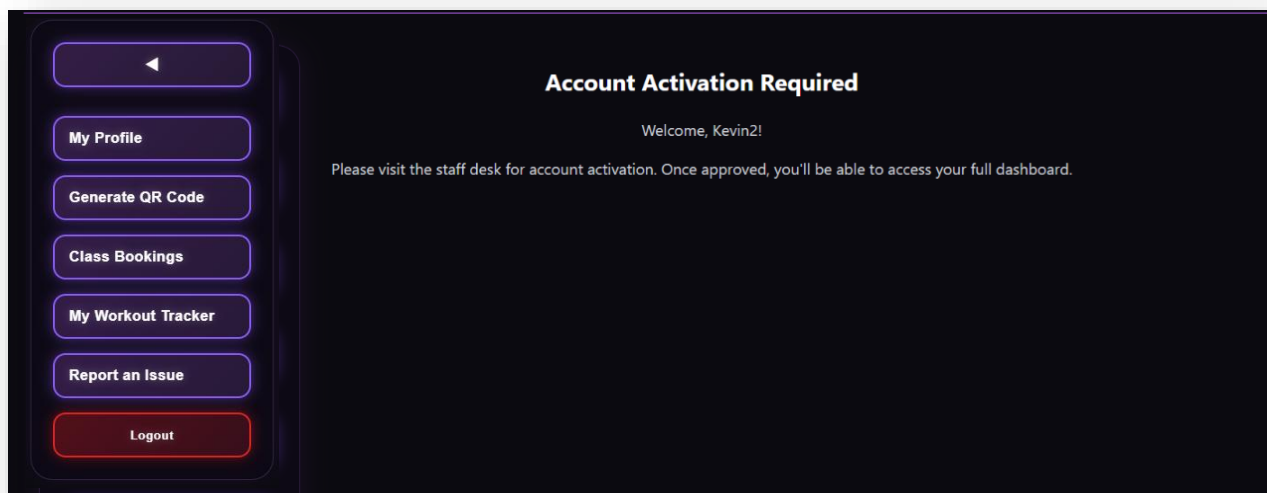
If your account is not yet active, you will see a message prompting you to complete the activation process.

MEMBERSHIP ACTIVATION REQUIRED

- If your membership status is not "active," your dashboard will be restricted.

ACCOUNT ACTIVATION REQUIRED

- Please visit the staff desk to activate your account. Once approved, you'll be able to access your full dashboard.



FIT@NWU – MANAGER DASHBOARD PAGE

MANAGER DASHBOARD PAGE METRICS

The metrics section provides real-time insights into gym operations and utilization.

ACTIVE MEMBERSHIPS

- Displays the total number of members with active memberships.
- Updates automatically as membership statuses change.
- Only counts memberships with "active" status.

CAPACITY UTILIZATION

- Shows the percentage of members currently checked into the facility.
- Calculated as: $(\text{Checked-in members} / \text{Total members}) \times 100$.
- Helps monitor facility usage and peak hours.
- Example: If 45 out of 150 members are checked in, capacity utilization = 30.0%.

CHECKED-IN COUNT

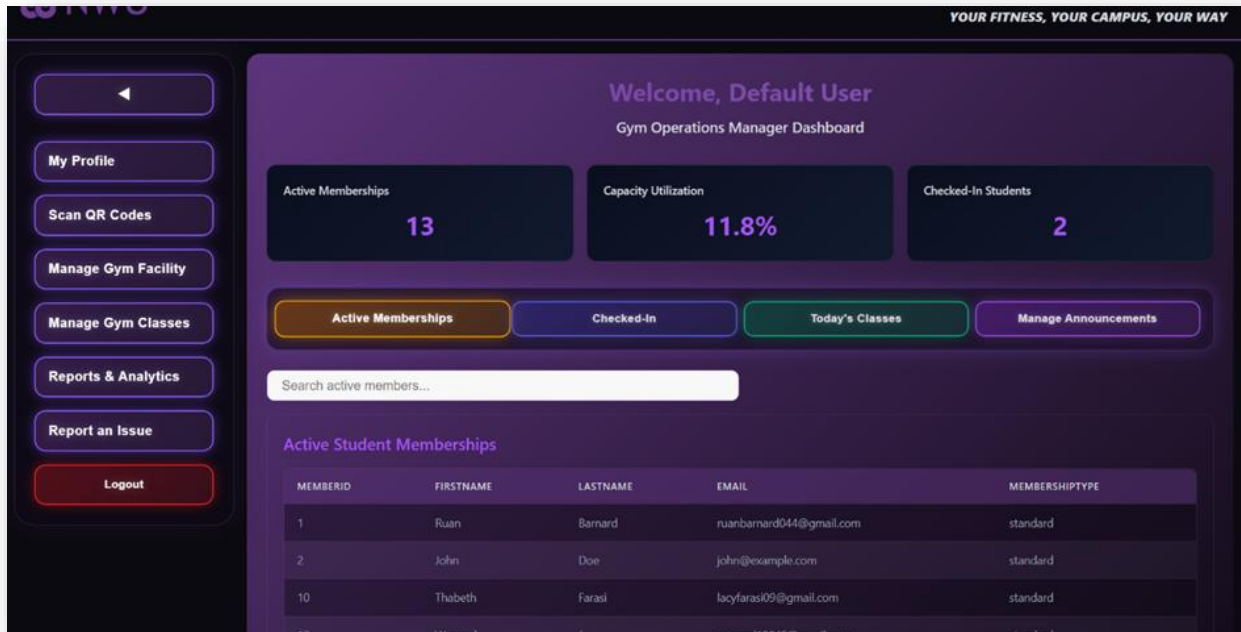
- Real-time count of members currently in the facility.
- Updates as members check in and out.
- Useful for monitoring crowd levels.

MANAGER DASHBOARD PAGE ACTIVE MEMBERSHIPS VIEW

The Active Memberships section displays all members with current, valid memberships.

TO ACCESS

1. Navigate to the "Active Memberships" section.
2. View the complete list of active members.

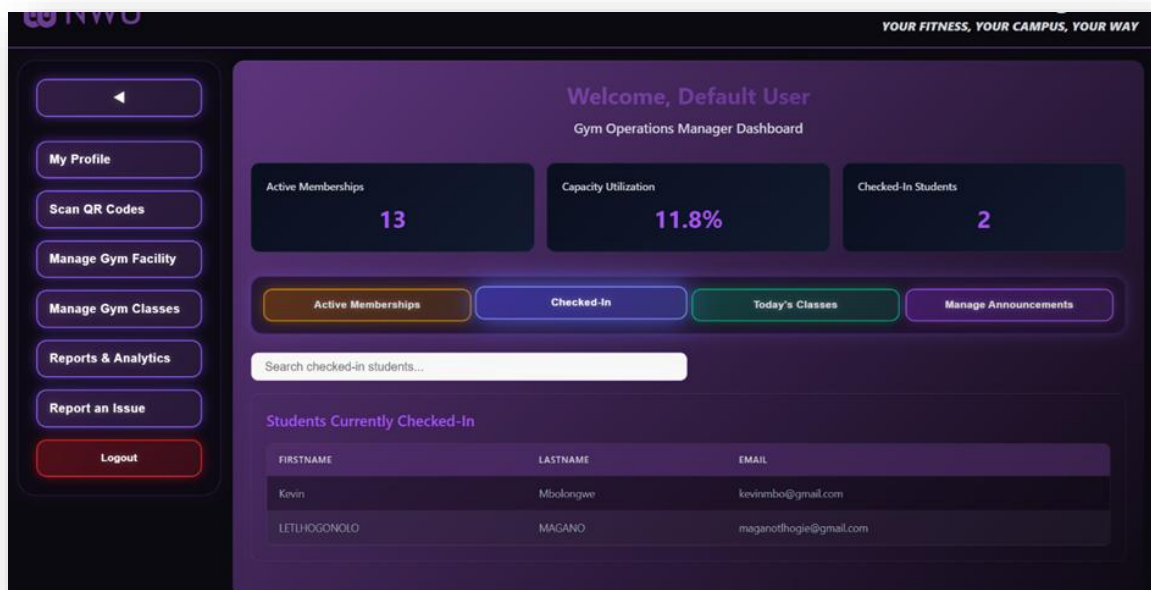


MANAGER DASHBOARD PAGE CHECKED-IN MEMBERS VIEW

The Checked-In Members section shows who is currently in the facility.

TO ACCESS

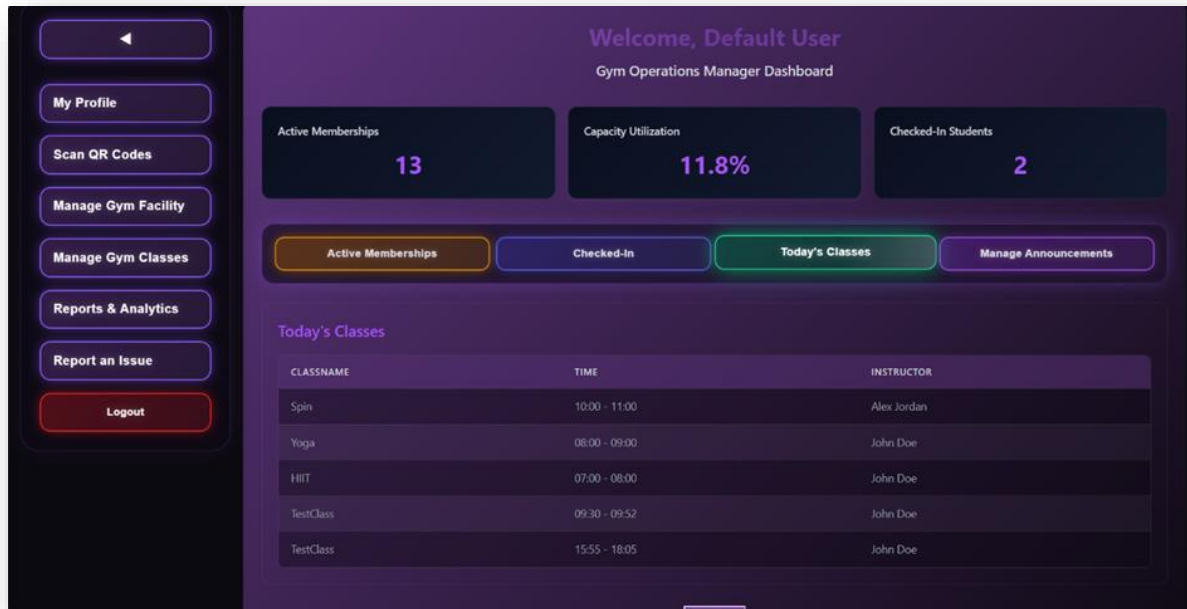
1. Navigate to the "Checked-In" section.
2. View real-time list of members in the facility.



MANAGER DASHBOARD PAGE CLASS SCHEDULE VIEW

TO ACCESS

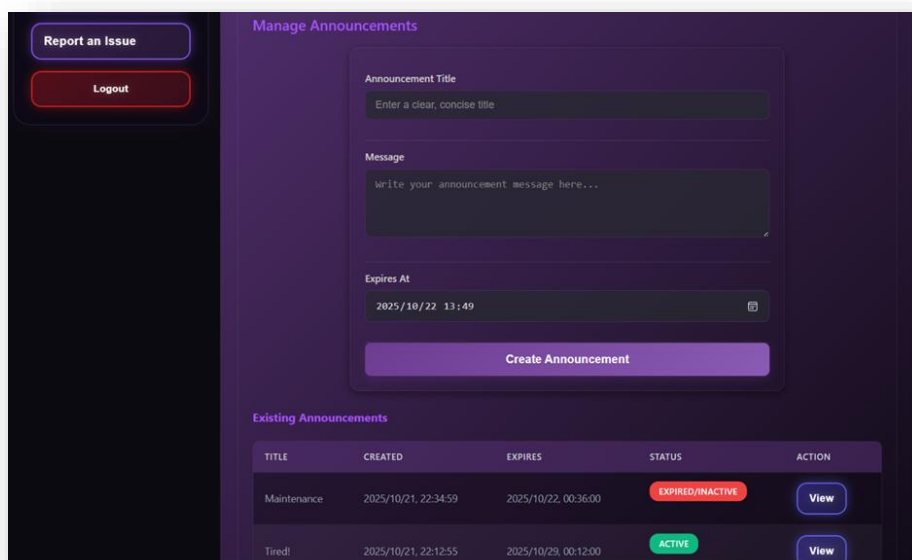
1. Navigate to the "Classes" section.
2. View complete schedule of upcoming classes.



MANAGER DASHBOARD PAGE MAKING ANNOUCEMENTS VIEW & DESCRIPTION

STEP-BY-STEP INSTRUCTIONS

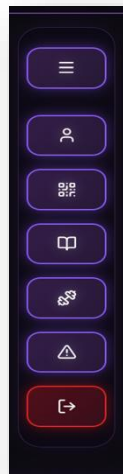
1. Navigate to the "Broadcast Message" section.
2. Fill in the required fields:
 - a. **Subject:** Brief, descriptive title (e.g., "Facility Closure Notice").
 - b. **Message:** Detailed announcement content.
3. Click "Send Broadcast" button.
4. Confirmation message will appear upon successful delivery.



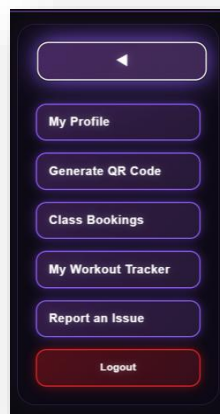
FIT@NWU – STUDENT PROFILE PAGE

STUDENT PROFILE PAGE NAVIGATION MENU VIEW

MOBILE VIEW



DESKTOP VIEW



STUDENT PROFILE PAGE NAVIGATION MENU DESCRIPTION

Menu Item	Description
My dashboard	The main landing page after logging in, containing key information of user. E.g. classes booked, announcements etc.
My Profile	This is where users' personal information will display membership status. This is where you can edit your personal information
Class Bookings	Allows you to view, book and cancel all schedules fitness classes
My workout tracker	This is where user's log and monitor their personal Exercises and routines and track their fitness progress over time.
Report on an issue	Here users can submit alerting staff or any concerns, they can report technical issues and submit feedback
Logout	Safely exits your account and ends users' session in application.

STUDENT PROFILE PAGE PERSONAL INFORMATION VIEW

FIT@NWU

YOUR FITNESS, YOUR CAMPUS, YOUR WAY

TF

Personal Information

Edit Profile

Name:

THABETH FARASI

Email:

lacyfarasi09@gmail.com

Username:

43779433

STUDENT PROFILE PAGE PERSONAL INFORMATION DESCRIPTION

Field	Description
Name	Users full name
Email	Primary email address associated with users account
Username	Users' unique identifier or user student number used to log in

STUDENT PROFILE PAGE PERSONAL INFORMATION EDIT VIEW

Personal Information

First Name:

Thabeth

Last Name:

Farasi

Email:

lacyfarasi09@gmail.com

Save Changes

Cancel

Edit Profile

STUDENT PROFILE PAGE PERSONAL INFORMATION EDIT DESCRIPTION

When the edit button is clicked. The First Name, Last Name and Email field can be edited, if user does not want to make these changes click cancel button, but to keep changes click save changes button.

STUDENT PROFILE PAGE MEMBERSHIP STATUS VIEW

Membership Status

active

Membership Type:
standard

Duration:
7 months

Registered Since:
2025/10/07

Expires:
2026/05/28

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STUDENT PROFILE PAGE MEMBERSHIP STATUS DESCRIPTION

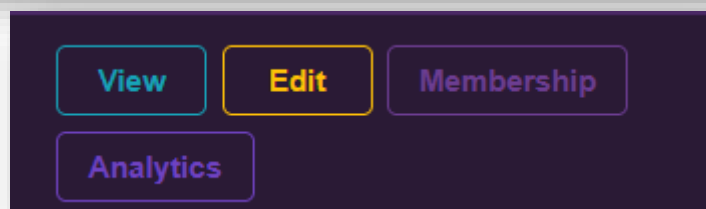
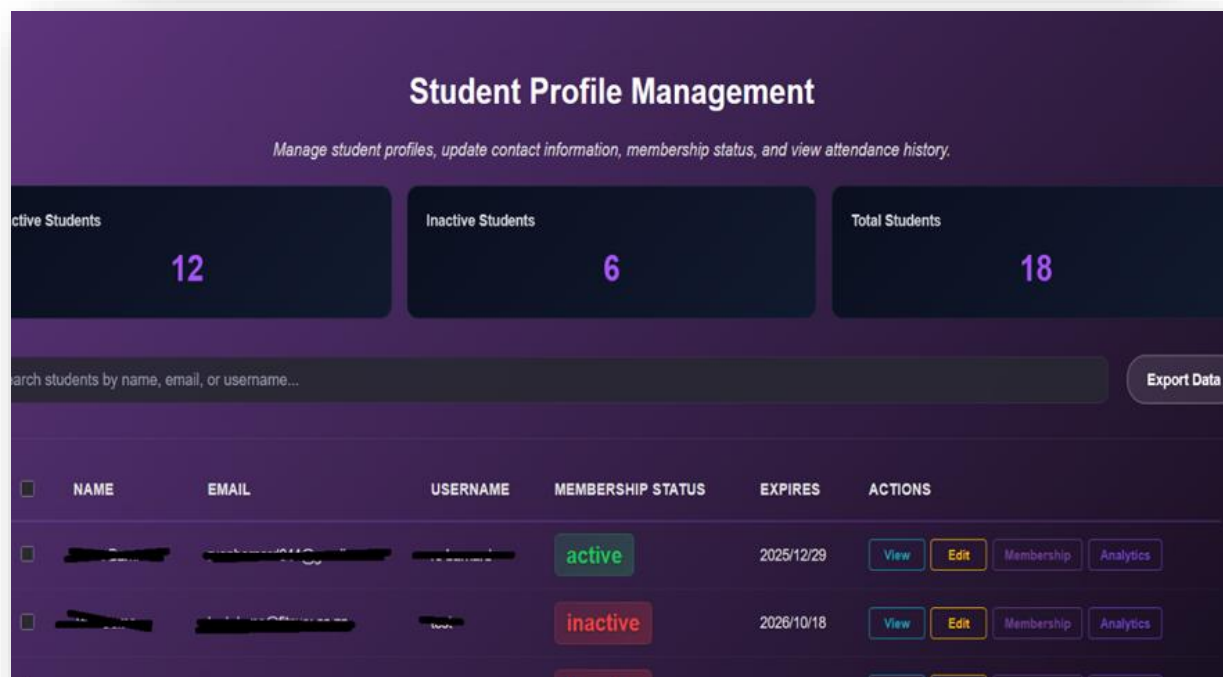
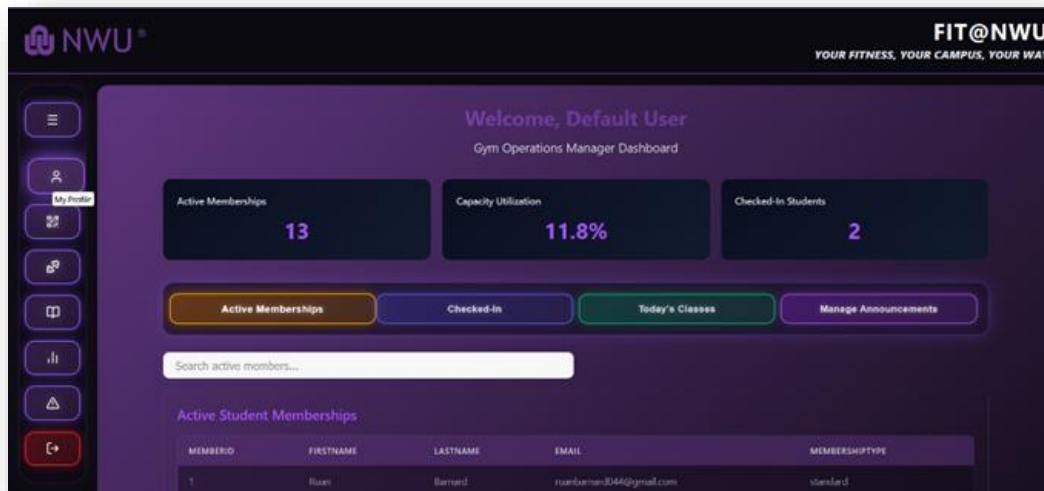
Field name description	Description
Status	The status badge shows the validity of the membership. Active means you have full access to the facility and services, inactive means you can't access any on the services and facility, pending means you are a new user waiting to be given a status
Membership type	This field indicates the level of the user's membership (standard, student, staff)
Duration	This field shows the length of the membership term the user was granted or purchased.
Registered since	The date the user's current membership began

Expires

This is the date membership will automatically end; user needs to renew their membership before this date to maintain access

FIT@NWU – MANAGER PROFILE PAGE

MANAGER PROFILE PAGE STUDENT PROFILE MANAGEMENT VIEW



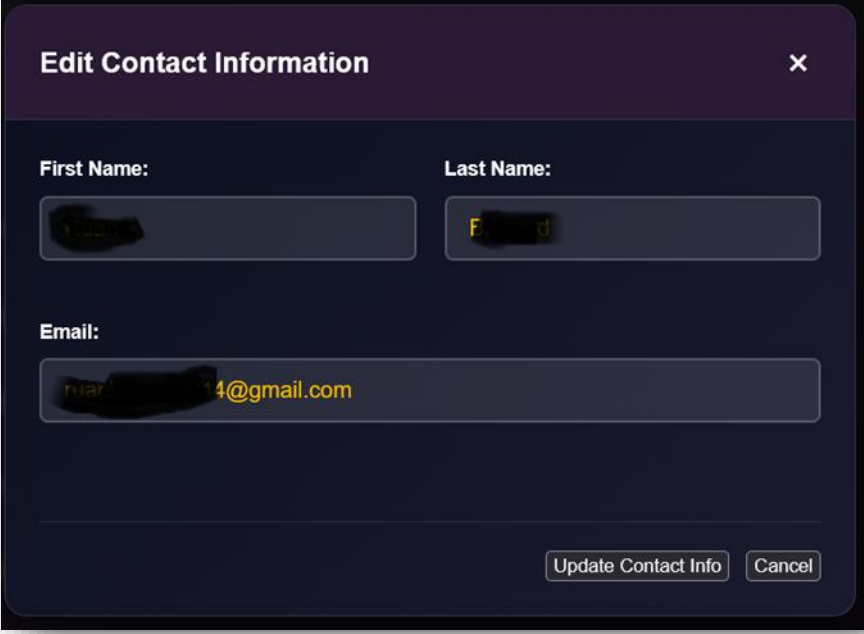
MANAGER PROFILE PAGE STUDENT PROFILE MANAGEMENT DESCRIPTION

1. When logged in as a system administrator, locate the “My Profile” button on the left-hand side of the webpage, then click the button.
2. After clicking the “My Profile” button, make sure that the “FA(FIT@NWU administrator)” icon is shown on the top right-hand side of the webpage, this is confirmation you are logged in as a system administrator.
3. When scrolling down, as shown in the picture above, the number of active, inactive and total students is displayed.
4. Displayed in the picture above is a table displaying the following information about the students:
 - a. **Name** (Both name and surname entered when they signed up).
 - b. **Email address** (entered when the student signed up).
 - c. **Username**.
 - d. **Membership status** (which will display “active”, “inactive” or “pending”).
 - e. **Expires** (date the membership expires).
 - f. **Actions** (Buttons: View, Edit, Membership and Analytics).
5. When the view button is clicked, it views the following information of student as shown in the picture below:
 - a. Name.
 - b. Email.
 - c. Username.
 - d. Role.
 - e. Member ID.
 - f. Membership status .
 - g. Expires (when the membership expires).

The screenshot shows a modal window titled "Student Profile" with a close button (X) in the top right corner. The modal contains a table with the following data:

Name:	EMAIL	USERNAME	MEMBERSHIP STATUS	Expires
R...	...	...	...	...
Email:	quantamard044@gmail.com	rc-hamard	...	...
Username:	Quantamard044@gmail.com	RC-HAMARD	...	...
Role:	student	...	...	...
Member ID:	...	...	...	...
Membership Status:	active	...	...	...
Membership Type:	standard	...	...	...
Expires:	2025/12/29	...	...	...

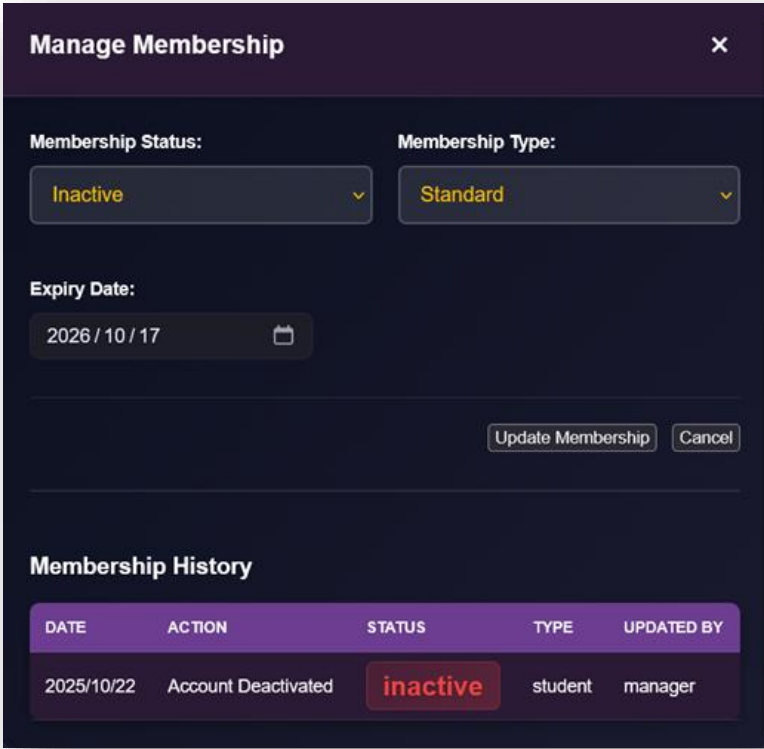
MANAGER PROFILE PAGE EDIT CONTACT INFORMATION VIEW & DESCRIPTION



The screenshot shows a modal window titled "Edit Contact Information" with a close button (X) in the top right corner. The form contains three input fields: "First Name:" with the value "Yusuf", "Last Name:" with the value "Fahd", and "Email:" with the value "yusuf.fahd@gmail.com". At the bottom right, there are two buttons: "Update Contact Info" and "Cancel".

- When the “Edit” button is clicked the following page displays below, the student’s first name, last name and email address can be edited. To save any changes, click the “Update Contact Info” button. If you do not want changes to happen to the student, click the “cancel button”.

MANAGER PROFILE PAGE MANAGE MEMBERSHIP VIEW



The screenshot shows a modal window titled "Manage Membership" with a close button (X) in the top right corner. The form contains two dropdown menus: "Membership Status:" with the value "Inactive" and "Membership Type:" with the value "Standard". Below these is an "Expiry Date:" field with the value "2026 / 10 / 17" and a calendar icon. At the bottom right, there are two buttons: "Update Membership" and "Cancel".

Membership History

DATE	ACTION	STATUS	TYPE	UPDATED BY
2025/10/22	Account Deactivated	inactive	student	manager

Manage Membership

Membership Status:

Inactive

Membership Type:

Standard

Standard

Premium

Student

Staff

Faculty

Expiry Date:

2026 / 10 / 17

Update Membership

Cancel

Membership History

DATE	ACTION	STATUS	TYPE	UPDATED BY
2025/10/22	Account Deactivated	inactive	student	manager

Manage Membership

Membership Status:

Inactive

Active

Inactive

Suspended

Expired

Membership Type:

Standard

Update Membership

Cancel

Membership History

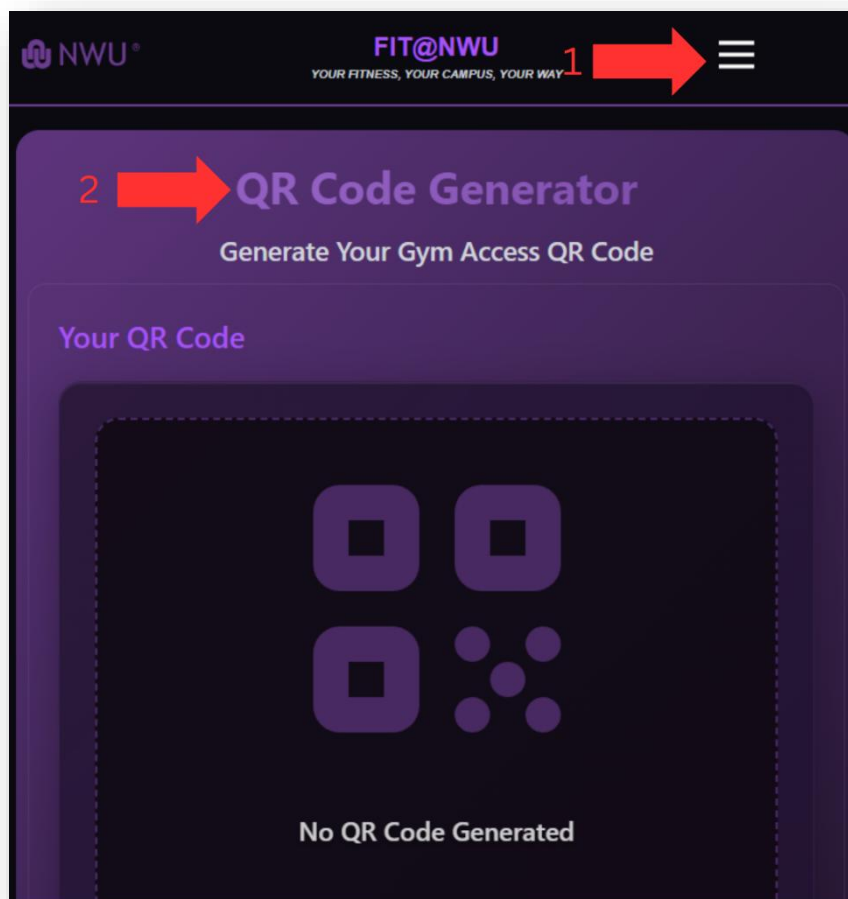
DATE	ACTION	STATUS	TYPE	UPDATED BY
2025/10/22	Account Deactivated	inactive	student	manager

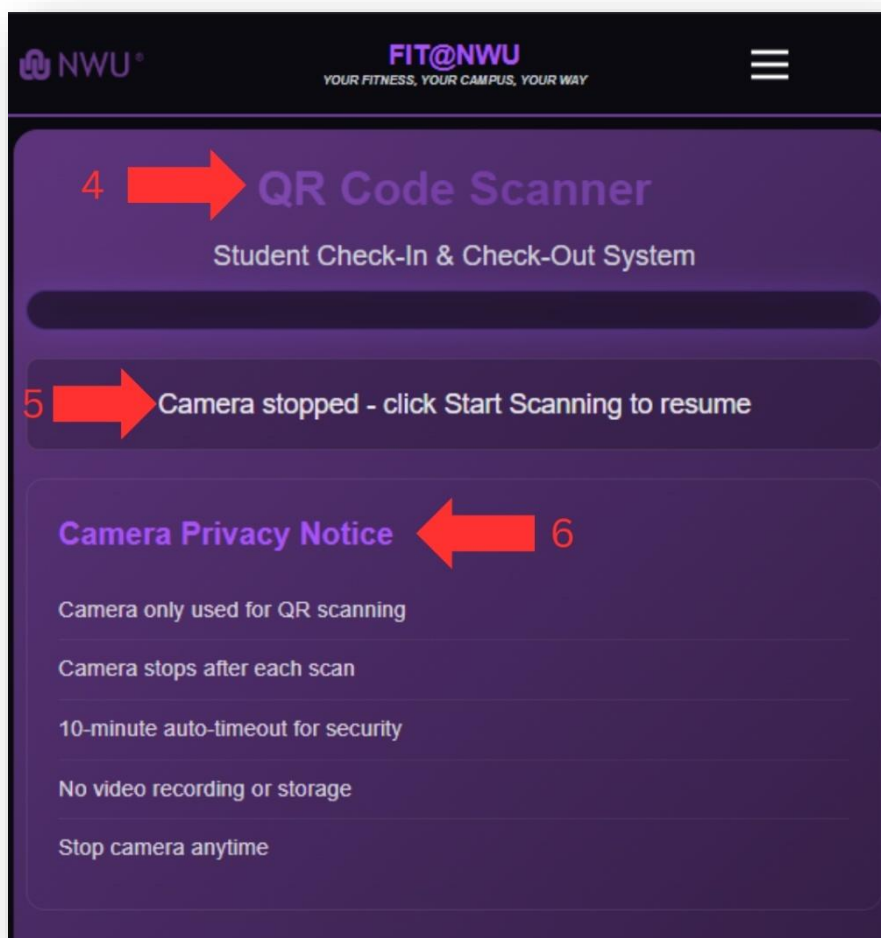
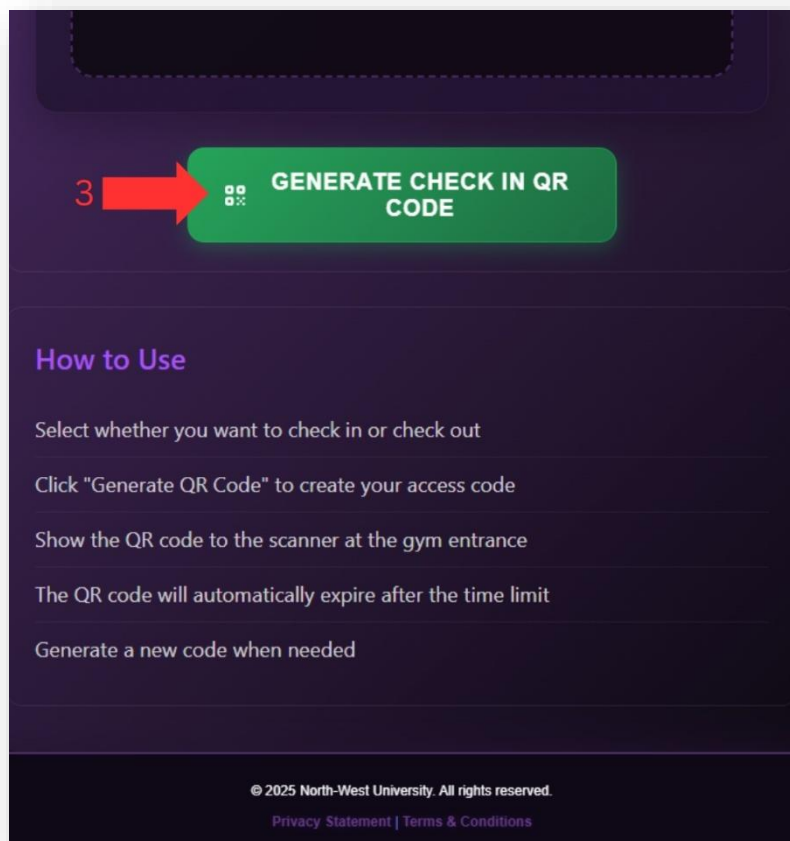
MANAGER PROFILE PAGE MANAGE MEMBERSHIP DESCRIPTION

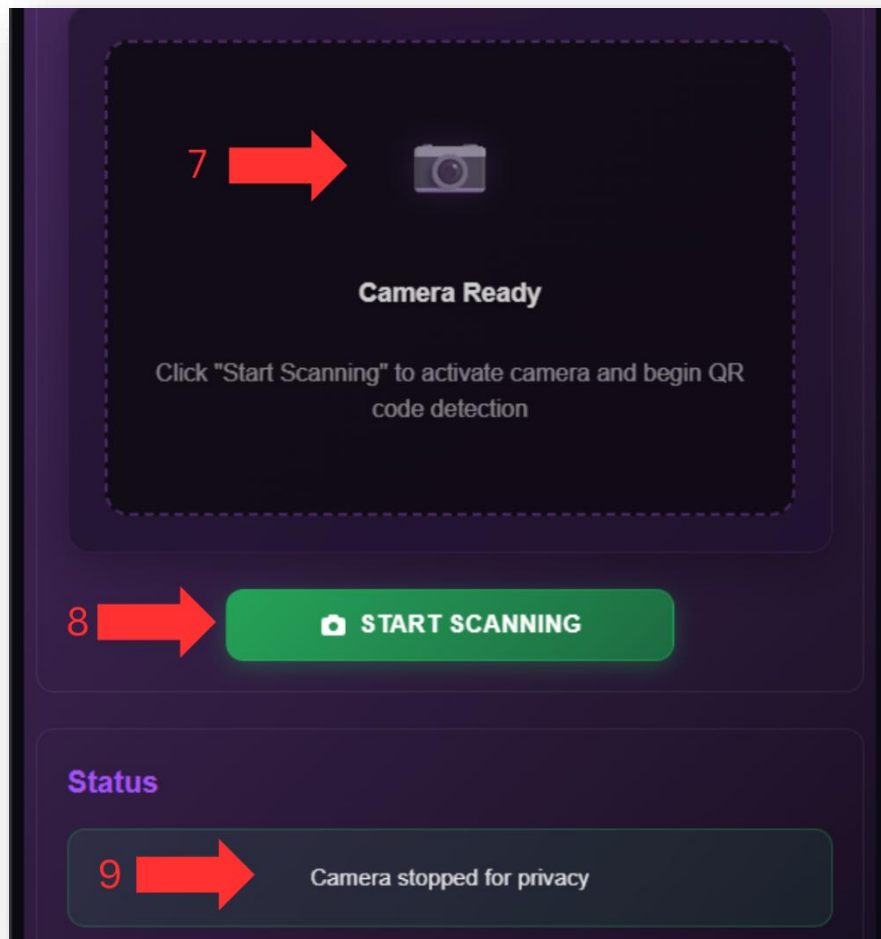
1. When the “Membership button is clicked, the following page appears called “Manage History. On the bottom of the page under “Membership History”, it will display any changes to the membership.
2. When the “Membership Type” drop down is clicked, it displays the different types of memberships shown in the picture below:
 - a. Standard.
 - b. Premium.
 - c. Student.
 - d. Staff.
 - e. Faculty.
3. When the “Membership Status” drop down is clicked, it displays the different types of membership statuses in the picture below:
 - a. Active.
 - b. Inactive.
 - c. Suspended.
 - d. Expired.
4. To save any changes, click the “Update Membership” button, and to not save any changes, click the “Cancel” button.

FIT@NWU – QR CODE PAGES

QR CODE PAGES VIEWS







QR CODE PAGES DESCRIPTIONS

#	ELEMENT NAME	DESCRIPTION
1	Menu Button	Opens navigation menu for switching between dashboards.
2	QR Code Generator Header	Displays the page title where users can generate a QR code.
3	Generate Check-In QR Code Button	Generates a new QR code for gym access.
4	QR Code Scanner Header	Identifies the active scanning interface for student check-in and check-out.
5	Camera Status Message	Displays current camera state and prompts to start scanning.
6	Camera Privacy Notice	Explains camera use, privacy policy, and auto-timeout behavior.
7	Camera Ready Icon	Shows camera is initialized and ready for QR scanning.
8	Start Scanning Button	Activates the camera and begins live QR detection.
9	Camera Status Indicator	Displays operational or privacy-related camera messages.

POSSIBLE ERRORS YOU MIGHT ENCOUNTER WITH THE QR CODE PAGES

RELATED ELEMENT (#)	ERROR NAME	DESCRIPTION	ACTION REQUIRED
3	QR Code Not Generated	System failed to generate a QR code.	Reload the page and retry; check internet connection.
5	Camera Access Denied	Browser blocked camera permissions.	Allow camera permissions in browser settings.
6	Camera Timeout	Camera automatically stopped after timeout.	Click 'Start Scanning' to reactivate.
8	Scanner Not Starting	Clicking Start Scanning has no effect.	Reload page or check camera hardware.

QR CODE PAGES SYSTEM ACTION FLOWS

RELATED ELEMENT (#)	ACTION	RESULT OF ACTION
1	Click Menu Button	Opens navigation menu to access other pages.
3	Click Generate Check-In QR Code	Creates and displays a new QR code for gym entry.
4	Navigate to Scanner	Opens the camera scanning interface.
5	Click Start Scanning	Enables camera for QR detection.
6	Read Privacy Notice	Ensures user awareness of camera usage policy.
8	Activate Camera	Begins scanning for valid QR codes.
9	Stop Camera	Deactivates camera when not in use for privacy.

FIT@NWU – MANAGE GYM FACILITY PAGE

MANAGE GYM FACILITY PAGE VIEW

Gym Equipment Management
Inventory & Equipment Operations

1 **View Equipment Inventory** **Add New Equipment** **Start Equipment Check** **Declare Lost Equipment** **View Check History**

2 **Equipment Filters** 3 **Equipment Inventory - Individual equipment items with quantities**

Sort By: Name A-Z Category: All Condition: All 4

5 **Equipment Inventory (103 items)**

EQUIPMENT NAME	CATEGORY	VARIANT	QUANTITY	LOCATION	CONDITION	STATUS
Ab Wheels	Accessories & Small Equipment	Standard	5	Accessory Station	Excellent	In Stock
Adjustable Bench	Benches & Racks	Fully Adjustable	10	Strength Training Zone A	Good	In Stock
Aerobic Steps	Group Fitness Equipment	3-Level Adjustable	25	Group Fitness Studio 1	Good	In Stock
Agility Ladder	Functional Training	Standard	4	Outdoor Training Space	Good	In Stock

Inventory & Equipment Operations

View Equipment Inventory **Add New Equipment** **Start Equipment Check** **Declare Lost Equipment** **View Check History**

6 **Error loading equipment categories**

Add New Equipment

7 **Category ***

Select Category

8 **Area/Location ***

Select Location

9 **Quantity ***

1

10 **Condition ***

Excellent

11 **Clear Add Equipment**

View Equipment Inventory

Add New Equipment

Cancel Equipment Check

Declare Lost Equipment

View Check History

Check started! 103 items across 24 locations

Equipment Inventory Check

Started: 10/22/2025, 9:17:09 PM

Performed by: 4

Equipment Check Filters

Category:

Accessories & Small Equipment (0/10)

Sort By:

Location

Accessory Station (0/3 checked)

Accessory Station (0/3 checked)

EQUIPMENT	VARIANT	EXPECTED QTY	COUNTED QTY	CONDITION	STATUS	ACTION
Ab Wheels	Standard	5	-	-	Pending	Check
Grip Strengtheners	Adjustable	4	-	-	Pending	Check
Jump Ropes	2.75m	4	-	-	Pending	Check

Equipment Desk (0/5 checked)

Equipment Desk (0/5 checked)

EQUIPMENT	VARIANT	EXPECTED QTY	COUNTED QTY	CONDITION	STATUS	ACTION
Gloves	Medium	25	-	-	Pending	Check
Lifting Straps	Standard	20	-	-	Pending	Check
Weight Belts	Medium	15	-	-	Pending	Check
Weight Belts	Large	15	-	-	Pending	Check
Wrist Wraps	Standard	20	-	-	Pending	Check

Storage Room A (0/2 checked)

Storage Room A (0/2 checked)

EQUIPMENT	VARIANT	EXPECTED QTY	COUNTED QTY	CONDITION	STATUS	ACTION
Ankle Weights	2kg	10	-	-	Pending	Check
Ankle Weights	1kg	12	-	-	Pending	Check

Declare Lost or Damaged Equipment - Fill out the form below

Declare Lost Equipment 18

Equipment Item: 19
 Select Equipment

Quantity Lost: 20
 0

Reason: 21
 Lost/Stolen

Notes: 22
 Describe what happened...

Cancel Declare Lost 23

MANAGE GYM FACILITY PAGE DESCRIPTION

#	ELEMENT NAME	DESCRIPTION
1	View Equipment Inventory	Primary tab button to show inventory listing.
2	Sort By Filter	Dropdown to sort inventory list.
3	Category Filter	Dropdown to filter by equipment category.
4	Condition Filter	Dropdown to filter by condition.
5	Equipment Inventory Table	Table listing equipment with quantities and locations.
6	Add New Equipment Button	Opens Add Equipment form.
7	Category Field	Required field to select equipment category.
8	Area/Location Field	Required field to choose storage area.
9	Quantity Field	Required numeric quantity to add.
10	Condition Field	Required condition for new item.
11	Add Equipment Submit	Creates the equipment record.
12	Cancel Equipment Check	Stops an active inventory check session.
13	Equipment Check Filters	Filters within an active check.
14	Location Section Header	e.g., 'Accessory Station (0/3 checked)'.
15	Check Action Button	Per-row action to start checking an item.
16	Location Group: Equipment Desk	Grouped items with progress text.
17	Location Group: Storage Room A	Grouped items with progress text.
18	Declare Lost Equipment Section	Form section header.
19	Equipment Item Dropdown	Select the item to declare lost.
20	Quantity Lost Field	Enter number of units lost.
21	Reason Dropdown	Select reason such as Lost/Stolen.
22	Notes Textarea	Optional additional details.
23	Declare Lost Submit	Submits the loss declaration.

POSSIBLE ERRORS YOU MIGHT ENCOUNTER WITH THE MANAGE GYM FACILITY PAGE

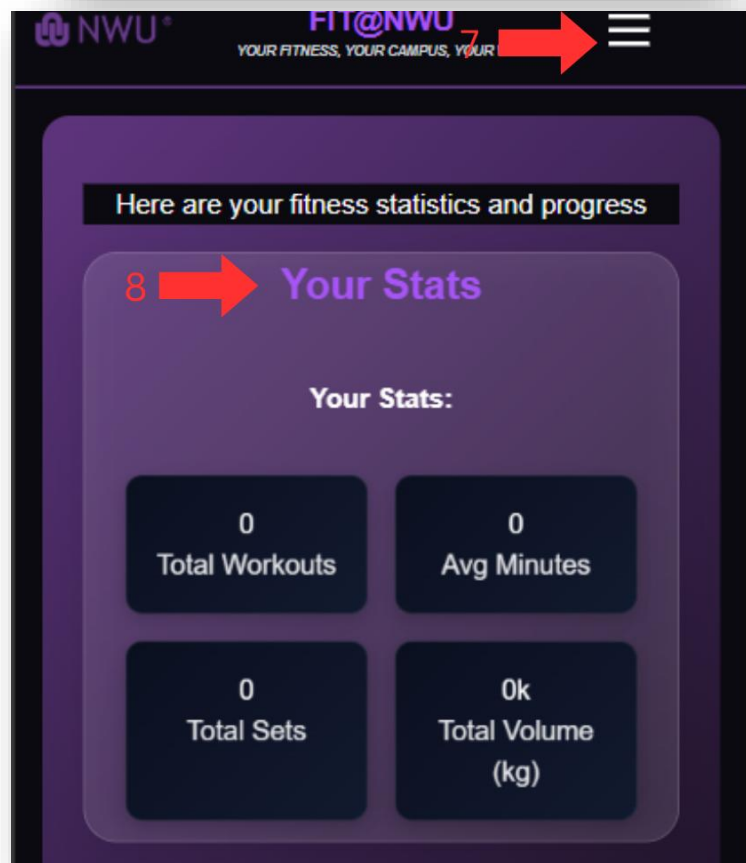
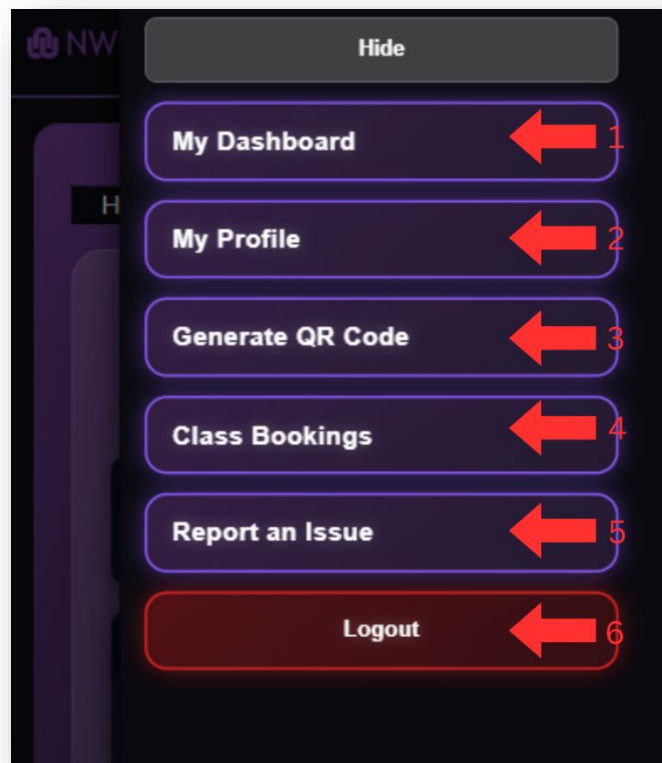
RELATED ELEMENT (#)	ERROR NAME	DESCRIPTION	ACTION REQUIRED
6	Add Form Load Error	Add Equipment form did not load categories or locations.	Reload and retry; verify network.
11	Add Equipment Failed	Submit failed due to validation or server error.	Complete required fields and retry.
12	Cancel Check Failed	System could not cancel active check.	Retry while session is active.
15	Check Action Error	Could not open item check dialog.	Refresh page then retry.
18	Declare Lost Form Error	Form failed to load options.	Reload and retry.
19	Invalid Item Selection	Item not found or not selectable.	Choose a valid item from dropdown.
20	Quantity Lost Invalid	Lost quantity exceeds available.	Enter a value ≤ available stock.
23	Declare Lost Submit Failed	Server rejected or timed out.	Retry; if persistent contact admin.

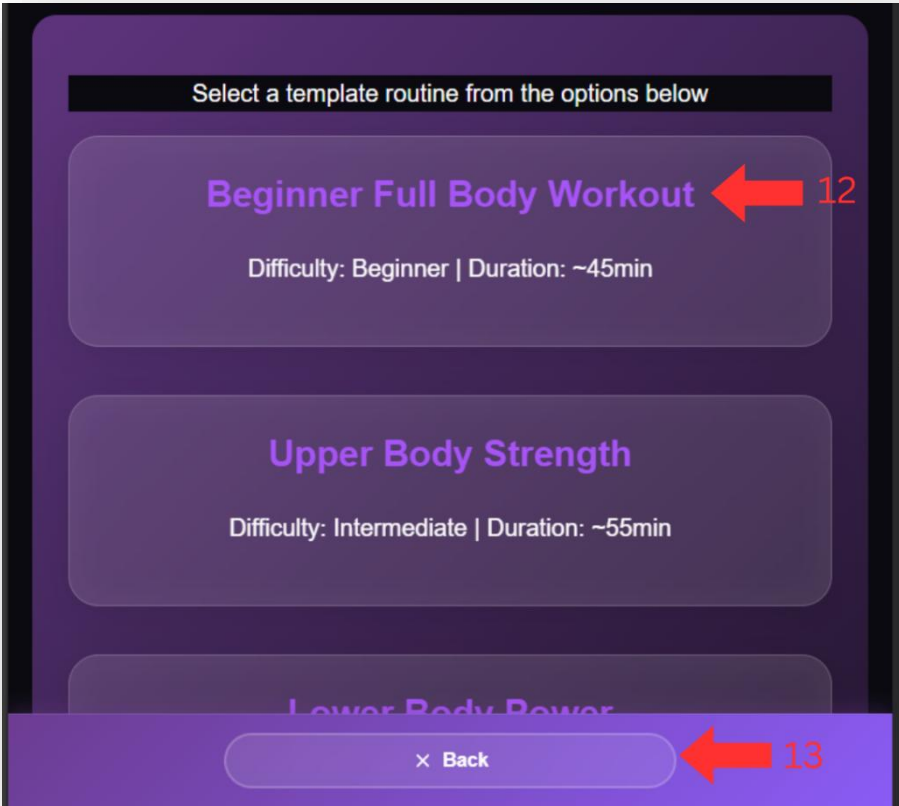
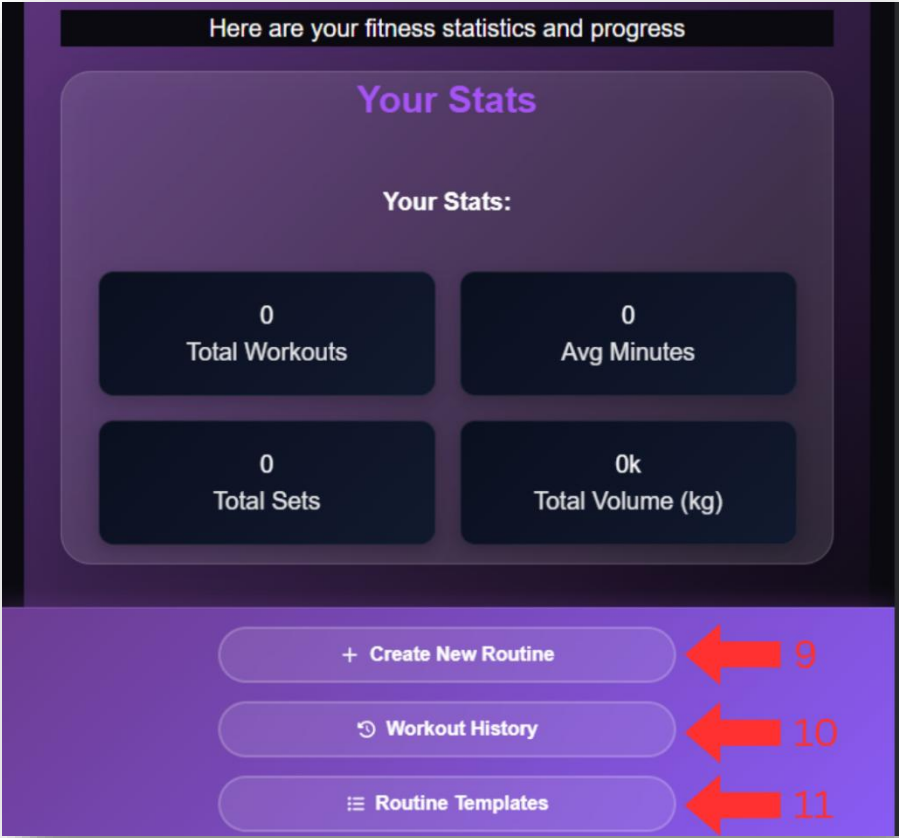
MANAGE GYM FACILITY PAGE SYSTEM ACTION FLOWS

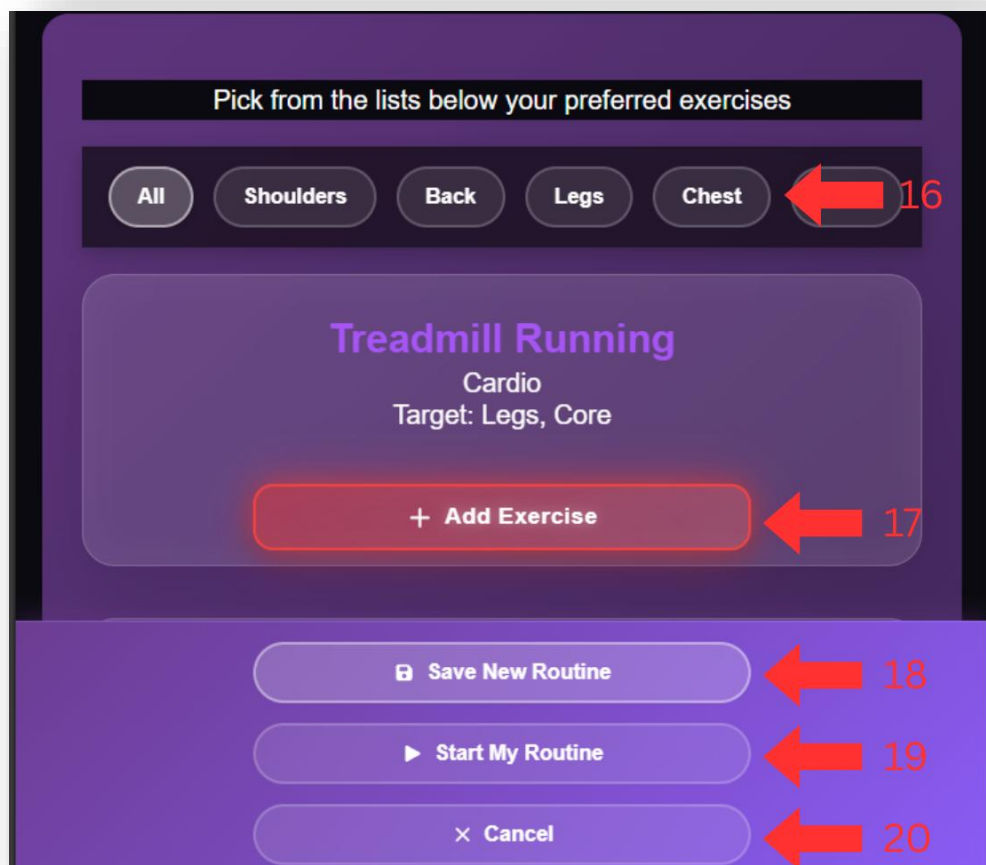
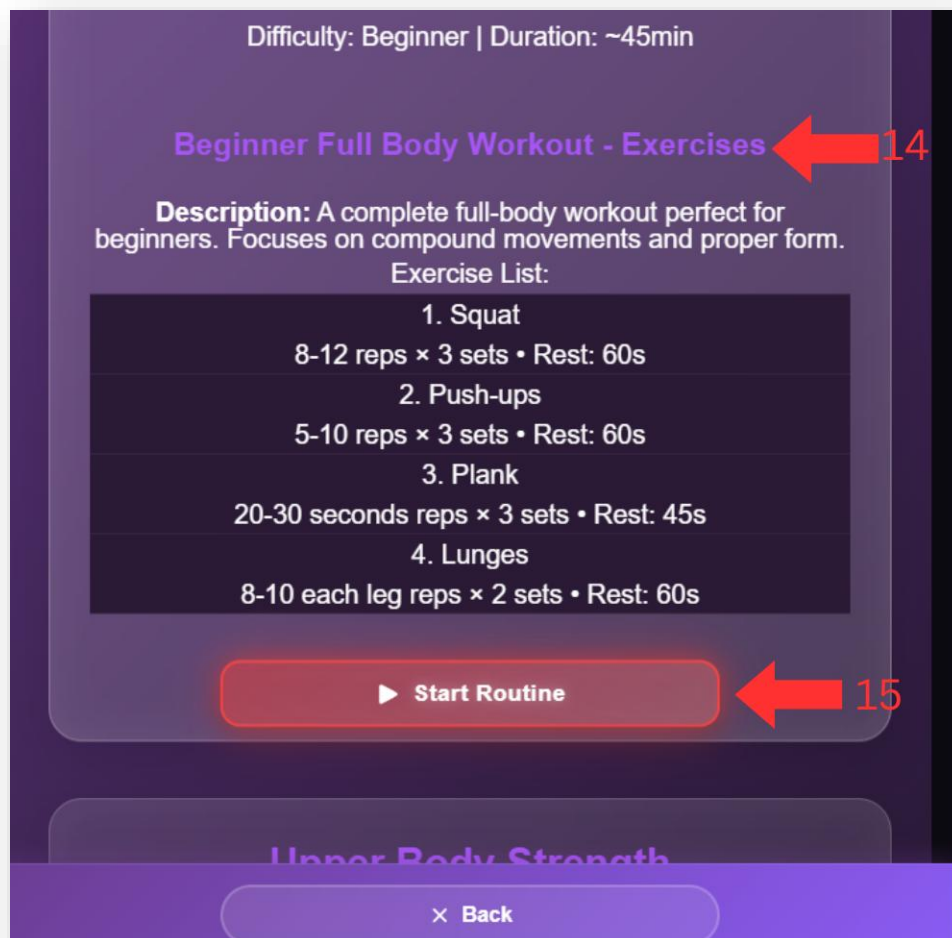
RELATED ELEMENT (#)	ACTION	RESULT OF ACTION
1	Click View Equipment Inventory	Shows inventory list with filters.
2	Change Sort By	Reorders the listing.
3	Select Category	Filters table by selected category.
4	Select Condition	Filters by item condition.
6	Click Add New Equipment	Opens the add form.
11	Click Add Equipment	Creates item and updates table.
12	Click Cancel Equipment Check	Stops ongoing check session.
13	Adjust Check Filters	Limits items shown during check.
15	Click Check	Opens item check workflow.
16	Open Equipment Desk Section	Shows items and progress for that location.
17	Open Storage Room A Section	Shows items and progress for that location.
18	Open Declare Lost Section	Enables lost entry form.
23	Click Declare Lost	Submits loss and updates inventory.

FIT@NWU – MY WORKOUT TRACKER PAGE

MY WORKOUT TRACKER PAGE VIEW







MY WORKOUT TRACKER PAGE DESCRIPTION

#	ELEMENT NAME	DESCRIPTION
1	My Dashboard Button	Navigates to the user's dashboard view.
2	My Profile Button	Opens the profile page to view user information.
3	Generate QR Code Button	Opens the QR code generation screen.
4	Class Bookings Button	Navigates to the class bookings page.
5	Report an Issue Button	Opens the issue reporting form.
6	Logout Button	Logs the user out of the system.
7	Menu Button	Expands or collapses the sidebar menu.
8	Your Stats Header	Displays user fitness statistics and summary data.
9	Create New Routine Button	Opens the page to create a new routine.
10	Workout History Button	Displays all completed workout sessions.
11	Routine Templates Button	Displays a list of available workout templates.
12	Routine Template Card	Shows routine name, difficulty, and duration.
13	Back Button	Returns to the previous page or menu.
14	Template Exercise Section	Lists exercises included in a selected routine.
15	Start Routine Button	Begins the selected workout routine.
16	Exercise Filter Chips	Filters exercises by muscle group category.
17	Add Exercise Button	Adds selected exercise to current routine creation list.
18	Save New Routine Button	Saves the custom routine for future use.
19	Start My Routine Button	Begins tracking the selected custom routine.
20	Cancel Button	Cancels current routine creation and returns to main page.

POSSIBLE ERRORS YOU MIGHT ENCOUNTER WITH THE MY WORKOUT TRACKER PAGE

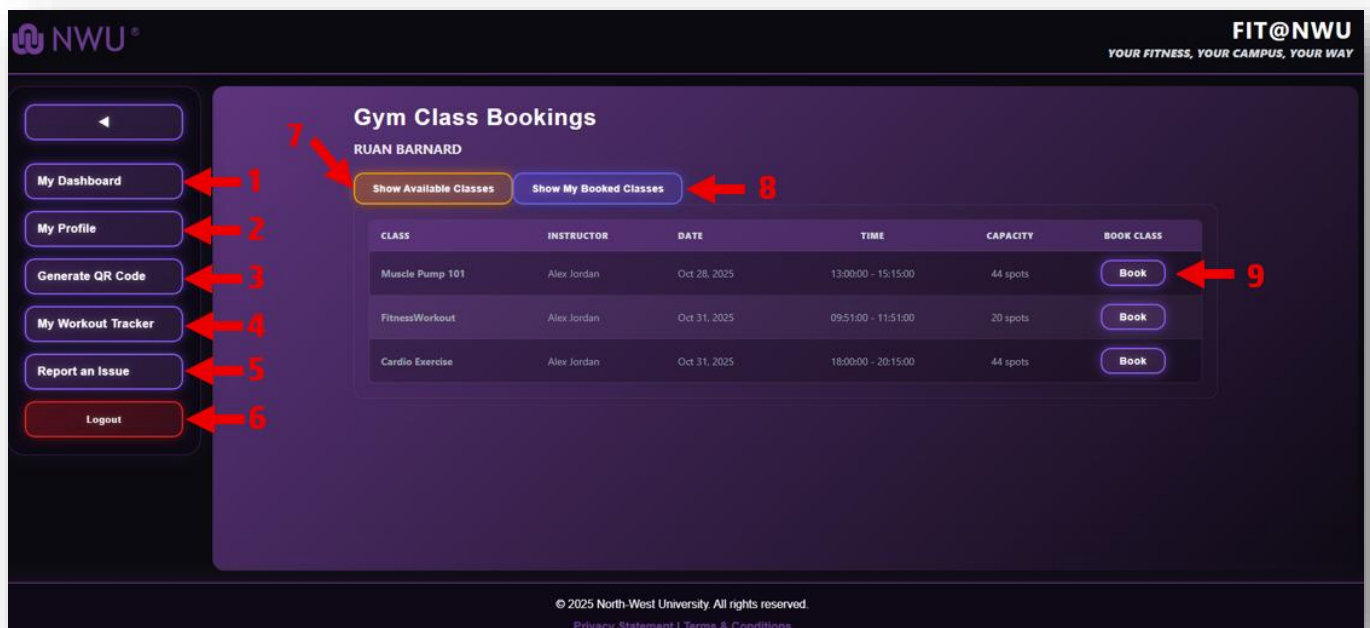
RELATED ELEMENT (#)	ERROR NAME	DESCRIPTION	ACTION REQUIRED
8	Stats Load Failed	The statistics page did not load correctly.	Check internet connection or reload the page.
9	Routine Creation Failed	Could not open new routine creation screen.	Reload and try again.
11	Template Fetch Error	Templates failed to load from server.	Refresh or check server connection.
15	Routine Start Error	Workout could not be started.	Ensure valid exercises are included before starting.
17	Add Exercise Error	Exercise not added to the routine list.	Check exercise selection and retry.
18	Routine Save Error	Failed to save new routine.	Ensure routine name and data are complete, then retry.
19	Routine Start Error	Custom routine failed to start.	Ensure routine data is loaded properly before retrying.

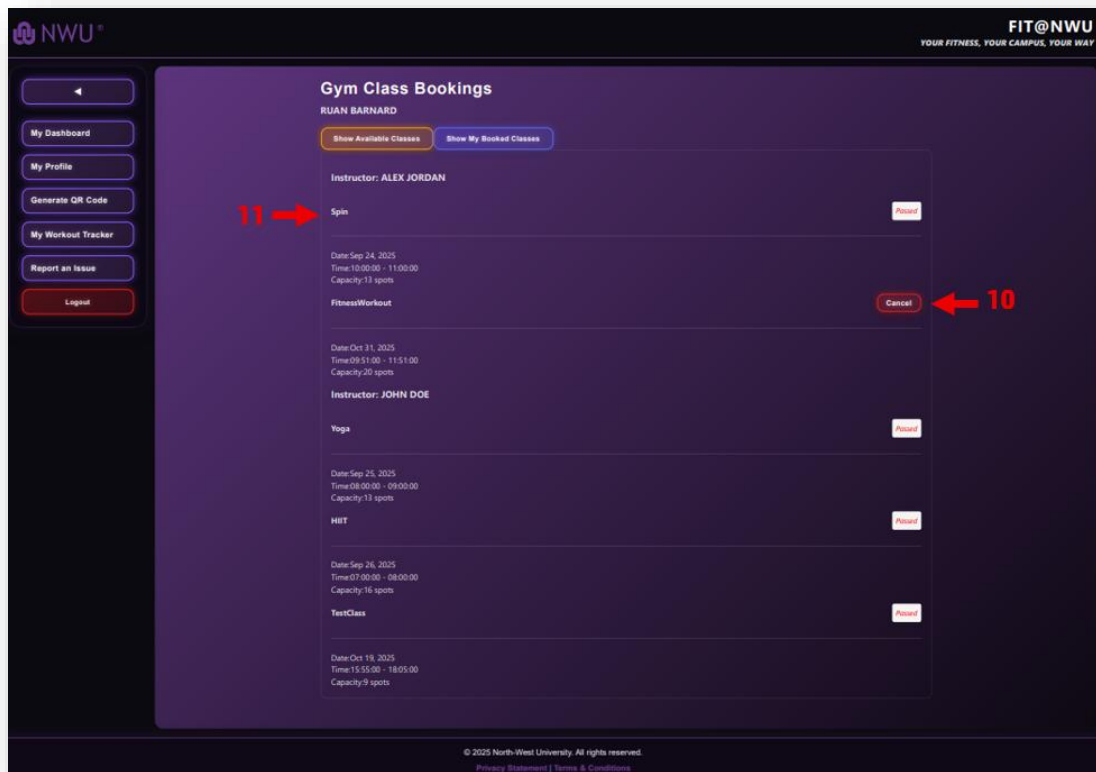
MY WORKOUT TRACKER PAGE SYSTEM ACTION FLOWS

RELATED ELEMENT (#)	ACTION	RESULT OF ACTION
1	Click My Dashboard	Redirects to main user dashboard.
2	Click My Profile	Displays user information and profile settings.
4	Click Class Bookings	Opens the class bookings page.
6	Click Logout	Logs out the user and redirects to login page.
7	Click Menu Button	Opens or hides the sidebar menu.
8	View Stats Header	Shows user's fitness data summary.
9	Click Create New Routine	Opens exercise selection for new routine creation.
10	Click Workout History	Displays past completed workouts.
11	Click Routine Templates	Displays available prebuilt templates.
12	Click Routine Template Card	Opens the routine details view.
13	Click Back Button	Returns to the previous page.
15	Click Start Routine	Begins tracking the workout routine.
17	Click Add Exercise	Adds exercise to the routine being created.
18	Click Save New Routine	Saves the created routine.
19	Click Start My Routine	Starts a saved custom routine.
20	Click Cancel	Cancels and returns to previous menu.

FIT@NWU – GYM CLASS BOOKINGS PAGE

GYM CLASS BOOKINGS PAGE VIEW





GYM CLASS BOOKINGS PAGE DESCRIPTION

#	ELEMENT NAME	DESCRIPTION
1	My Dashboard Button	This button is clicked to return to the user dashboard.
2	My Profile Button	This button is clicked to proceed to the My Profile page.
3	Generate QR Code Button	This button is clicked to proceed to the Generate a QR Code page.
4	My Workout Tracker Button	This button is clicked to proceed to the My Workout Tracker page.
5	Report an Issue Button	This button is clicked to proceed to the Report an Issue page.
6	Logout Button	This button is clicked to log out of the application and proceed to the Login page.
7	Show Available Classes Button	The default view, displaying a list of all current and future gym classes available for booking.
8	Show My Booked Classes Button	Click to switch to a view displaying only the classes the logged-in user has successfully booked.
9	Book Button	Click to reserve a spot in the class. This action is only possible if the user has an active membership and the class has available capacity.
10	Cancel Button	Click to cancel the reservation for that class.
11	Booked Class Card	Represents a single class the user has booked, showing details like Class Name, Date, Time, and Capacity.

POSSIBLE ERRORS YOU MIGHT ENCOUNTER WITH THE GYM CLASS BOOKINGS PAGE

#	ERROR NAME	DESCRIPTION	CAUSE OF ERROR	ACTION REQUIRED
1	AN ACTIVE MEMBERSHIP IS REQUIRED	The main content is replaced by a message stating that membership is needed.	The user's MembershipStatus is not active.	Visit the Gym Membership counter to purchase or renew your membership.
2	Booking failed: Class is full	An attempt to book a class failed because all slots have been taken.	The class Capacity is 0 at the time of the booking request.	Choose another class.
3	Booking failed: Class inactive or not found	An attempt to book a class failed because the class is no longer active.	The class's status property is not 'active', or the class record has been deleted.	The class is unavailable . Choose another class.
4	Booking failed: Already booked	An attempt to book the same class twice.	The user has already booked this class.	You are already booked . View the class in the My Bookings tab.
5	Error fetching available classes (500)	The system failed to retrieve the list of classes from the server.	The system failed to retrieve the list of classes from the server.	Wait 5 to 10 minutes and try again. If the issue persists , report the server error to the system administrators (sys.admin.fit.nwu@gmail.com).
6	Error cancelling booking (500)	The system failed to remove the booking from the database.	An internal server error occurred.	Wait 5 to 10 minutes and try again. If the issue persists , report the server error to the system administrators (sys.admin.fit.nwu@gmail.com).

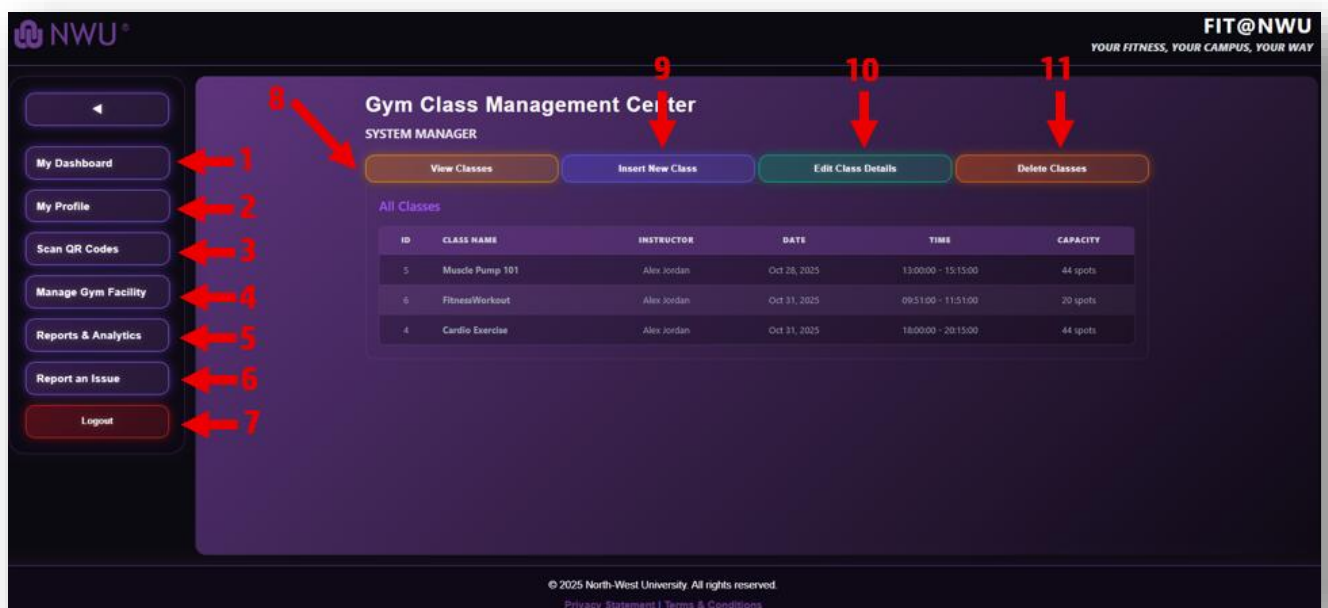
GYM CLASS BOOKINGS PAGE SYSTEM ACTION FLOWS

#	ELEMENT	ACTION	RESULT OF ACTION
1	My Dashboard Button	Clicks to navigate to the dashboard page.	The user immediately gets redirected to the Dashboard page.
2	My Profile Button	Clicks to navigate to the profile page.	The user immediately gets redirected to the Profile page.
3	Generate QR Code Button	Clicks to navigate to the qr code generator page.	The user immediately gets redirected to the Generate QR Code page.

4	My Workout Tracker Button	Clicks to navigate to the workout tracker.	The user immediately gets redirected to the Workout Tracker page.
5	Report an Issue Button	Clicks to navigate to the issue report.	The user immediately gets redirected to the Report an Issue page.
6	Logout Button	Clicks to logout and navigate to the login page.	The user immediately gets logged out and redirected to the Login page.
7	Show Available Classes Button	Clicks to view available classes.	Success: The application displays all available classes which are active that are in the future.
8	Show My Booked Classes Button	Clicks to view booked classes.	Success: The application displays classes the user has booked, which is active and are in the future.
9	Book Button	Clicks to book a class.	Success: Displays a success message (e.g., "Class booked successfully!"). The booking appears in the My Bookings tab. Failure: Displays an error message (e.g., "Class is full").
10	Cancel Button	Clicks to cancel a booked class.	Success: Displays a success message (e.g., "Booking cancelled successfully!"). The booking disappears from the My Bookings tab. Failure: Displays an error message (e.g., "Error cancelling booking").

FIT@NWU – MANAGE GYM CLASSES PAGE

MANAGE GYM CLASSES PAGE VIEW



My Dashboard

My Profile

Scan QR Codes

Manage Gym Facility

Reports & Analytics

Report an Issue

Logout

View Classes

Insert New Class

Edit Class Details

Delete Classes

Insert a New Class

CLASS NAME

e.g., Yoga, Spin, HIIT

CLASS INSTRUCTOR

Select an instructor...

CLASS START TIME

--:--

CLASS DATE

dd/mm/yyyy

CLASS CAPACITY

e.g., 20

CLASS END TIME

--:--

Insert Class

Clear Form

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My Dashboard

My Profile

Scan QR Codes

Manage Gym Facility

Reports & Analytics

Report an Issue

Logout

View Classes

Insert New Class

Edit Class Details

Delete Classes

Edit Class

Select a class to edit:

ID	CLASS NAME	INSTRUCTOR	DATE	TIME	CAPACITY	EDIT
5	Muscle Pump 101	Alex Jordan	Oct 28, 2025	13:00:00 - 15:15:00	44 spots	Select
6	FitnessWorkout	Alex Jordan	Oct 31, 2025	09:51:00 - 11:31:00	20 spots	Select
4	Cardio Exercise	Alex Jordan	Oct 31, 2025	18:00:00 - 20:15:00	44 spots	Select

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Gym Class Management Center

SYSTEM MANAGER

View Classes

Insert New Class

Edit Class Details

Delete Classes

Edit Class

Editing: Muscle Pump 101 ID 5

CLASS NAME

Muscle Pump 101

CLASS INSTRUCTOR

Select an instructor...

CLASS START TIME

13:00

CLASS DATE

28/10/2025

CLASS CAPACITY

44

CLASS END TIME

15:15

Update Class

Cancel

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Gym Class Management Center

SYSTEM MANAGER

View Classes

Insert New Class

Edit Class Details

Delete Classes

Delete Class

Select a class to delete:

ID	CLASS NAME	INSTRUCTOR	DELETE
5	Muscle Pump 101	Alex Jordan	Delete
6	FitnessWorkout	Alex Jordan	Delete
4	Cardio Exercise	Alex Jordan	Delete

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MANAGE GYM CLASSES PAGE DESCRIPTION

#	ELEMENT NAME	DESCRIPTION
1	My Dashboard Button	This button is clicked to return to the user dashboard.
2	My Profile Button	This button is clicked to proceed to the My Profile page.
3	Scan QR Code Button	This button is clicked to proceed to the Scan QR Code page.
4	Manage Gym Facility Resources Button	This button is clicked to proceed to the Manage Gym Facility Resources page.
5	Access Reports and Analytics Button	This button is clicked to proceed to the Access Reports and Analytics page.
6	Report an Issue Button	This button is clicked to proceed to the Report an Issue page.
7	Logout Button	This button is clicked to log out of the application and proceed to the Login page.
8	View Classes Button	The default view, displaying a list of all current and future active gym classes.
9	Insert new Class Button	Click to add a new gym class and insert the details for the new gym class.
10	Edit Class Details Button	Click to edit an existing gym class and insert the details for the updated gym class.
11	Delete Classes Button	Click to remove an existing gym class.
12	Class Name Field	Enter your the class (e.g., HITT). This is a required field for class creation.
13	Class Instructor Field	Select the class instructor using the combo box. This is a required field .
14	Class Start Time Field	Select the class start time using the time picker. This is a required field and is stored in hh:mm format.
15	Class Date Field	Select the class date using the date picker. This is a required field and is stored in YYYY-MM-DD format.
16	Class Capacity Field	Enter a valid class capacity. This is a required field . Must be a valid integer format.
17	Class End Time Field	Select the class end time using the time picker. This is a required field and is stored in hh:mm format.
18	Insert Class Button	Click this button after filling out all fields. This submits your data to the server, creates and inserts the class. This action results in an empty form.
19	Clear Form Button	Click this button to reset the insert form.
20	Edit Button	Click this button to select an existing class to edit. This displays the edit class form with prefilled details about the class.
21	Class Name Field	Enter your the class (e.g., HITT). This is a required field for class creation.

22	Class Instructor Field	Select the class instructor using the combo box. This is a required field .
23	Class Start Time Field	Select the class start time using the time picker. This is a required field and is stored in hh:mm format.
24	Class Date Field	Select the class date using the date picker. This is a required field and is stored in YYYY-MM-DD format.
25	Class Capacity Field	Enter a valid class capacity. This is a required field . Must be a valid integer format.
26	Class End Time Field	Select the class end time using the time picker. This is a required field and is stored in hh:mm format.
27	Update Class Button	Click this button after filling out all fields. This submits your data to the server, and changes the class details. This action results in an empty form.
28	Clear Form Button	Click this button to reset the edit form.
29	Delete Button	Click this button to delete and remove an existing class.

POSSIBLE ERRORS YOU MIGHT ENCOUNTER WITH THE MANAGE GYM CLASSES PAGE

#	ERROR NAME	DESCRIPTION	CAUSE OF ERROR	ACTION REQUIRED
1	Missing required fields (400)	Not all mandatory fields (Name, Instructor, Date, Times, Capacity) were filled out.	The request was sent with one or more null/empty values for required fields.	Ensure all fields in the form are completed.
2	Cannot update/create class to a past date/time (400)	The class date and start time are set to a time that has already occurred.	The classDate and startTime combine to a time before the current system time.	Set the Class Date and Start Time to a time in the future.
3	Class not found or inactive (404)	An attempt was made to modify or remove a class that does not exist or has been marked as inactive.	The ClassID specified in the request does not match an active record in the database.	Refresh the View Classes list and try again, ensuring you are operating on a current class.
4	Instructor not found (404)	The selected InstructorID is invalid or does not correspond to a valid member.	The selected Instructor is invalid or does not correspond to a valid member.	Ensure the instructor selected is correct and they are registered in the system.
5	Capacity must be a positive integer (400)	The capacity field contains text or a number less than 1.	Input validation failed because capacity is not a valid number.	Enter a valid positive number for class capacity (e.g., 20, 35).

6	Error fetching/saving/deleting class (500)	A critical error occurred on the server during the database operation.	Database connection failure, unhandled code exception, or transaction failure.	Wait 5 to 10 minutes and try again. If the issue persists , report the server error to the system administrators (sys.admin.fit.nwu@gmail.com).
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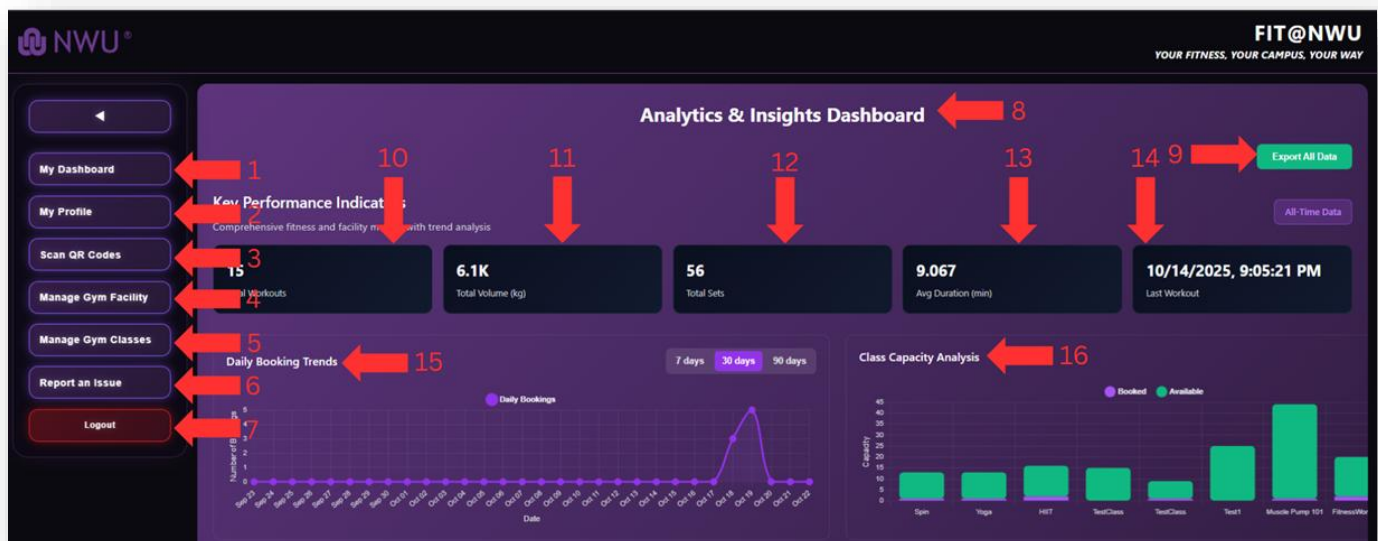
MANAGE GYM CLASSES PAGE SYSTEM ACTION FLOWS

#	ELEMENT	ACTION	RESULT OF ACTION
1	My Dashboard Button	Clicks to navigate to the dashboard page.	The user immediately gets redirected to the Dashboard page.
2	My Profile Button	Clicks to navigate to the profile page.	The user immediately gets redirected to the Profile page.
3	Scan QR Code Button	Clicks to navigate to the scan qr code page.	The user immediately gets redirected to the Scan QR Code page.
4	Manage Gym Facility Resources Button	Clicks to navigate to the gym facility resource management page.	The user immediately gets redirected to the Manage Gym Facility Resources page.
5	Access Reports and Analytics Button	Clicks to navigate to the reports and analytics page.	The user immediately gets redirected to the Access Reports and Analytics page.
6	Report an Issue Button	Clicks to navigate to the issue report page.	The user immediately gets redirected to the Report an Issue page.
7	Logout Button	Clicks to logout and navigate to the login page.	The user immediately gets logged out and redirected to the Login page.
8	View Classes Button	Clicks to view available classes.	Success: The application displays all available classes which are active that are in the future.
9	Insert New Class Button	Clicks to insert a new class's details.	Success: Displays a success message (e.g., "Class Inserted successfully!"). The new class appears in all class tabs. Failure: Displays an error message (e.g., "Operation failed")
10	Edit Class Details Button	Clicks to edit an existing class's details.	Success: Displays a success message (e.g., "Class details edited successfully!"). The updated class appears in all class tabs. Failure: Displays an error message (e.g., "Editing failed").
11	Delete Classes Button	Clicks to delete a active class.	Success: Displays a success message (e.g., "Class removed successfully!"). The class disappears from the all class tabs. Failure: Displays an error message (e.g., "Error removing class").
18	Insert Class Button	Clicks to submit new class details.	This submits your data to the server, creates and inserts the class. This action results in an empty form.

19	Clear Form Button	Clicks to reset insert form to empty.	Click this button to reset the insert form.
20	Edit Button	Clicks to edit an existing selected class's details.	This displays the edit class form with prefilled details about the class.
27	Update Class Button	Clicks to submit updated class details.	This submits your data to the server, and updates the edited class. This action results in an empty form.
28	Clear Form Button	Clicks to reset edit form to empty.	This button reset the edit form to empty.
29	Delete Button	Clicks to delete a active selected class.	This button sets an active class to inactive and removes it from the list of available classes.

FIT@NWU – REPORT & ANALYTICS PAGE

REPORTS & ANALYTICS PAGE VIEW



Weekly Workout Progress

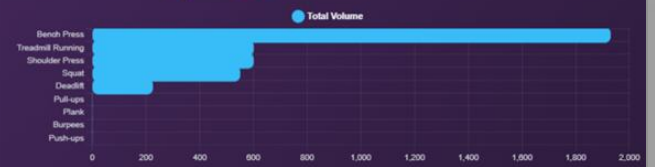
17

28 days 84 days 168 days



Top Exercises by Volume

18



Peak Hours Analysis

19



Member Retention

20



Equipment Utilization



Equipment Utilization

21



Real-Time Class Status

22

Live capacity monitoring and status updates

Spin AVAILABLE Dates: 2025-09-23 Times: 10:00-11:00 1 booked 12 available Total Capacity: 13	Yoga AVAILABLE Dates: 2025-09-24 Times: 08:00-09:00 1 booked 12 available Total Capacity: 13	HIIT AVAILABLE Dates: 2025-09-25 Times: 07:00-08:00 2 booked 14 available Total Capacity: 16	TestClass AVAILABLE Dates: 2025-10-16 Times: 09:30-09:52 0 booked 15 available Total Capacity: 15	TestClass AVAILABLE Dates: 2025-10-18 Times: 15:55-18:05 1 booked 8 available Total Capacity: 9	Test1 AVAILABLE Dates: 2025-10-25 Times: 09:46-09:48 0 booked 25 available Total Capacity: 25
Muscle Pump 101 AVAILABLE Date: 2025-10-27 Times: 13:00-15:15 1 booked 43 available Total Capacity: 44	FitnessWorkout AVAILABLE Date: 2025-10-30 Times: 09:51-11:51 2 booked 18 available Total Capacity: 20				

Top Classes by Bookings

Export

Top Classes by Bookings

23

CLASS	BOOKINGS
FitnessWorkout	2
HIIT	2
Muscle Pump 101	2
Spin	2
TestClass	2
Yoga	2
Cardio Exercise	2
Test1	2
TestClass	2

REPORTS & ANALYTICS PAGE DESCRIPTION

#	ELEMENT NAME	DESCRIPTION
1	My Dashboard Button	Navigates to the main user dashboard.
2	My Profile Button	Opens the Profile page.
3	Class Bookings Button	Opens class bookings.
4	Access Reports & Analytics Button	Opens this analytics page.
5	My Workout Tracker Button	Opens the workout tracker.
6	Report an Issue Button	Opens the issue report page.
7	LOGOUT Button	Logs out and returns to Login.
8	Page Title	"Analytics & Insights Dashboard."
9	Export All Data Button	Exports all available analytics with current filters to CSV files.
10	KPI: Total Workouts	Total completed workouts.
11	KPI: Total Volume (kg)	Sum of volume lifted.
12	KPI: Total Sets	Sum of sets completed.
13	KPI: Avg Duration (min)	Average workout duration.
14	KPI: Last Workout	Timestamp of the last workout.
15	Daily Booking Trends	Time-series of daily class bookings. Range pills: 7/30/90 days.
16	Class Capacity Analysis	Stacked bars of Booked vs Available per class.
17	Weekly Workout Progress	Bar+line with dual Y-axes: sessions and total volume. Range pills: 28/84/168 days.
18	Top Exercises by Volume	Horizontal bars ranking exercises by total volume.
19	Peak Hours Analysis	Bookings per hour of day.
20	Member Retention	Doughnut: Active, New, Churned.
21	Equipment Utilization	Utilization % by equipment type.
22	Real-Time Class Status	Cards per class with date, time, booked vs available, capacity bar, status badge.
23	Top Classes by Bookings (Table)	Ranked list of classes by bookings with per-table Export.

POSSIBLE ERRORS YOU MIGHT ENCOUNTER WITH THE REPORTS & ANALYTICS PAGE

#	ERROR NAME	DESCRIPTION	CAUSE OF ERROR	ACTION REQUIRED
1	Data fetch error (500)	KPIs or charts fail to load.	API or DB failure.	Reload later. If persistent, contact sys.admin.fit.nwu@gmail.com.
2	Empty data (204)	Visual shows "No data available."	No records in selected period.	Expand range (e.g., 90 or 168 days) or add data.
3	Invalid export (400)	Export fails.	Missing/malformed dataset for current filter.	Reapply filters and retry export.
4	Unauthorized (401)	Access denied.	Session missing or expired.	Log in and retry.
5	Render failure (client)	Chart area blank or distorted.	Cache or network hiccup.	Hard refresh, clear cache, retry.
6	Time filter mismatch	Trend pills appear unresponsive.	Network delay during batch load.	Wait for load then switch range again.

REPORTS & ANALYTICS PAGE SYSTEM ACTION FLOWS

#	ELEMENT	ACTION	RESULT OF ACTION
1	My Dashboard/Profile/Bookings/Tracker/Issues	Click navigation.	Redirects to selected page.
2	LOGOUT	Click.	Clears session and redirects to Login.
3	Export All Data	Click.	Downloads CSVs for bookings, class utilization, top classes, workouts, peak hours, equipment usage using current filters.
4	Daily Booking Trends	Select 7/30/90 days.	Line chart updates; tooltip shows date and bookings.
5	Weekly Workout Progress	Select 28/84/168 days.	Bar+line re-renders; left Y-axis sessions, right Y-axis volume.
6	Class Capacity Analysis	Hover bar.	Tooltip shows Booked/Available; utilization % visible.
7	Top Exercises by Volume	Hover bar.	Tooltip shows exercise and total volume.
8	Peak Hours Analysis	Hover bar.	Tooltip shows bookings for that hour.
9	Member Retention	Hover doughnut segment.	Tooltip shows counts; legend displays segments.
10	Equipment Utilization	Hover bar.	Tooltip shows Utilization %; Y-axis capped at 100%.
11	Real-Time Class Status	Read card.	Status badge and progress bar reflect capacity; details show booked vs available.
12	Top Classes by Bookings – Export	Click Export.	Downloads visible table as CSV.

FIT@NWU – STUDENT ISSUE REPORT PAGE

STUDENT ISSUE REPORT PAGE VIEW & DESCRIPTIONS

Report an Issue Here!
ED RICH STUDENT P

Issue Title
Enter a short title

Description
Describe the issue in detail

Category
Equipment

Priority
Low

Submit Issue

My Issues yyyy/mm/dd Sort: Default

Incomplete dumbbell sets Resolved

The 4kg, 7kg and 11kg dumbbells are missing their partners

Admin Response:
All 3 sets have been replaced and are now complete again

Equipment Priority: Medium 14/10/2025 at 17:20:33

PURPOSE

- Students can use this page to report problems or submit feedback related to the gym, equipment, or facilities.
- Each student can also view the progress and responses to their previously submitted issues.

ACCESSING THE PAGE

- Log in to FIT@NWU using your student account.
- On the left sidebar, click “Report an Issue” to open the Issue Reporting page.
- On mobile devices, tap the menu icon(Hamburger Icon) at the top-left to open the navigation menu, then select “Report an Issue.”

SUBMITTING AN ISSUE

1. Enter a Title:
 - a. Provide a short, descriptive name for the issue
 - b. Example: “Treadmill screen not working.”
2. Describe the Issue:
 - a. Explain the problem clearly in the description box
 - b. Example: “The treadmill near the mirrors shuts off after 2 minutes of running.”
3. Select a Category:
 - a. Choose one of the following:
 - i. Equipment
 - ii. Facilities
 - iii. Membership
 - iv. Classes
 - v. General Feedback
 - vi. Complaint

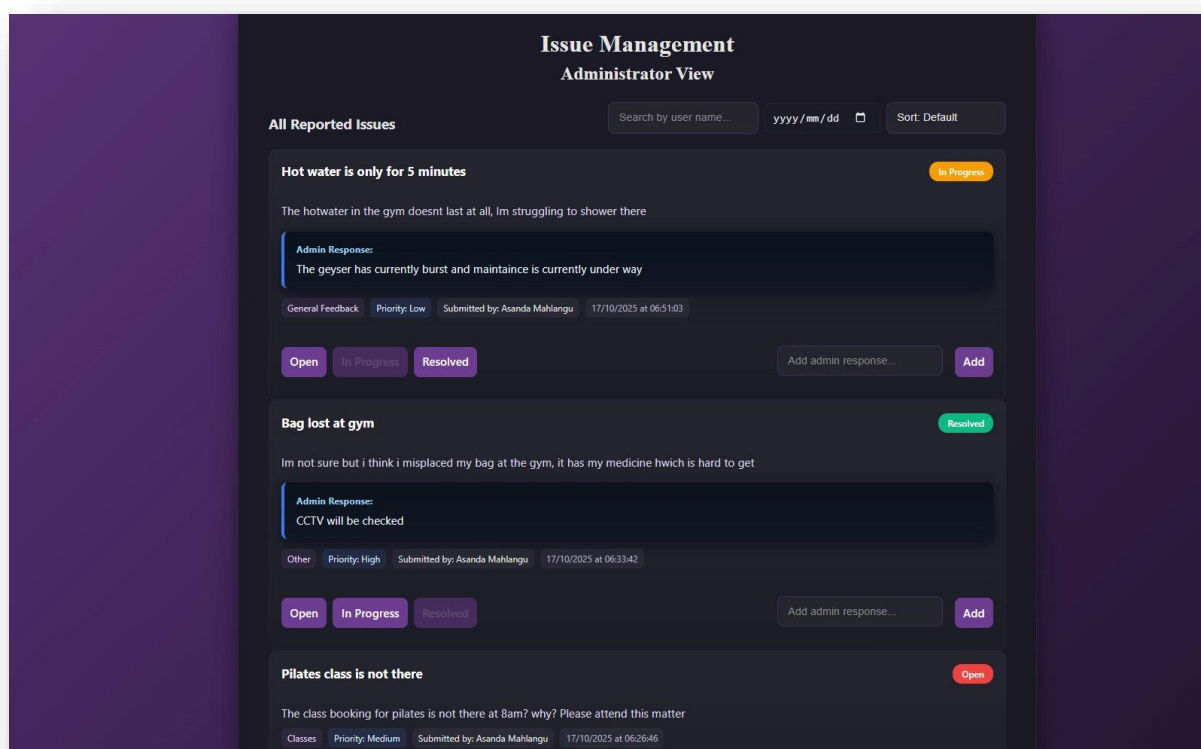
- vii. Other
4. Choose a Priority level:
 - a. Low: Minor inconvenience
 - b. Medium: Affects functionality
 - c. High: Urgent or safety-related
5. Lastly click “Submit Issue”:
 - a. The issue will be sent to management and appear in your personal issue list below the form.

VIEWING YOUR SUBMITTED ISSUES

- Your issues are listed under “My Issues”.
- Each entry shows you the:
 - a. Title of the issue.
 - b. Description.
 - c. Category, Priority, and Date Submitted.
 - d. Status (Open, In Progress, Resolved).
 - e. Admin Response (if management has replied).
- Statuses change automatically when an admin or manager updates the issue.

FIT@NWU – MANAGER ISSUE REPORT PAGE

MANAGER ISSUE REPORT PAGE VIEW & DESCRIPTIONS



PURPOSE

- Managers can view, update, and respond to all reported issues submitted by students
- This ensures quick resolution and transparent communication

ACCESSING THE PAGE

- Log in to FIT@NWU using your manager or administrator credentials.
- Click “Report an Issue” on the sidebar to open the Issue Management view.

VIEWING ALL REPORTED ISSUES

- All issues submitted by students are displayed under “All Reported Issues.”
- Each entry shows:
 - Issue title and description.
 - Category, Priority, Submitted By, and Date.
 - Current Status (Open / In Progress / Resolved).
 - Any existing admin response.

UPDATING AN ISSUE'S STATUS

- Locate the issue you wish to update.
- Choose one of the following status buttons:
 - Open – Marks the issue as active and unresolved.
 - In Progress – Indicates the issue is being worked on.
 - Resolved – Marks the issue as completed or fixed.
- The status will update instantly in the system and on the student's view.

ADDING AN ADMIN RESPONSE

- Type a short message in the “Add admin response...” field below the issue.
- Example: “Replacement part ordered; expected to arrive next week.”
- Click the “Add” button.
- The message appears immediately below the issue for both managers and students to view.

FILTERING AND SORTING

- Managers can use the search and sort controls above the issue list to quickly find specific reports by user name or date.

LOGGING OUT

- Click the “LOGOUT” button on the left sidebar.
- On mobile, open the menu (Hamburger Icon) and select LOGOUT.

TIPS FOR RESOLVING ISSUES

1. Keep responses short and professional.
2. Always mark resolved issues promptly to avoid duplicates.
3. Encourage students to provide detailed descriptions when submitting new issues.