



UNIVERSITI TEKNOLOGI MARA (UiTM)

FACULTY OF INFORMATION SCIENCE

**BACHELOR OF INFORMATION SCIENCE (HONS) INFORMATION SYSTEMS
MANAGEMENT (CDIM262)**

IMS566 – ADVANCED WEB DESIGN DEVELOPMENT AND CONTENT MANAGEMENT

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WEB APPLICATION PROJECT - MYPMH

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1.0 INTRODUCTION

MyPMH is a web-based student portal developed specifically for Persatuan Mahasiswa Hadhari (PMH), a student association at Universiti Teknologi MARA (UiTM) Kampus Puncak Perdana. The system was created to help manage and streamline the organization's daily operations, including membership applications, program management, and merchandise pre-ordering.

The main purpose of this system is to provide students with easy access to information about PMH activities, allow them to apply for membership, view upcoming programs, and pre-order official merchandise. For administrators, the system offers comprehensive tools to manage applications, organize events, track orders, and maintain interview schedules efficiently.

This project was built using the CakePHP 4.5 framework to ensure a secure, maintainable, and scalable codebase. The system implements role-based access control where students and administrators have different levels of access and functionality. Students can register, login, view programs, submit membership applications, and pre-order merchandise. Administrators can manage all applications, create programs, handle merchandise availability, manage orders, and generate official PDF letters.

The system follows a modern, responsive design approach using Tailwind CSS for styling, ensuring that users can access the portal from both desktop computers and mobile devices with a consistent experience. The color scheme follows PMH's official branding using purple (#7c2a7c) as the primary color and yellow (#edd134) as the accent color.

2.0 GITHUB REPOSITORY LINK

Link: <https://github.com/Zahid-Hanafi/mypmh.git>

3.0 ENTITY-RELATIONSHIP DIAGRAM (ERD)

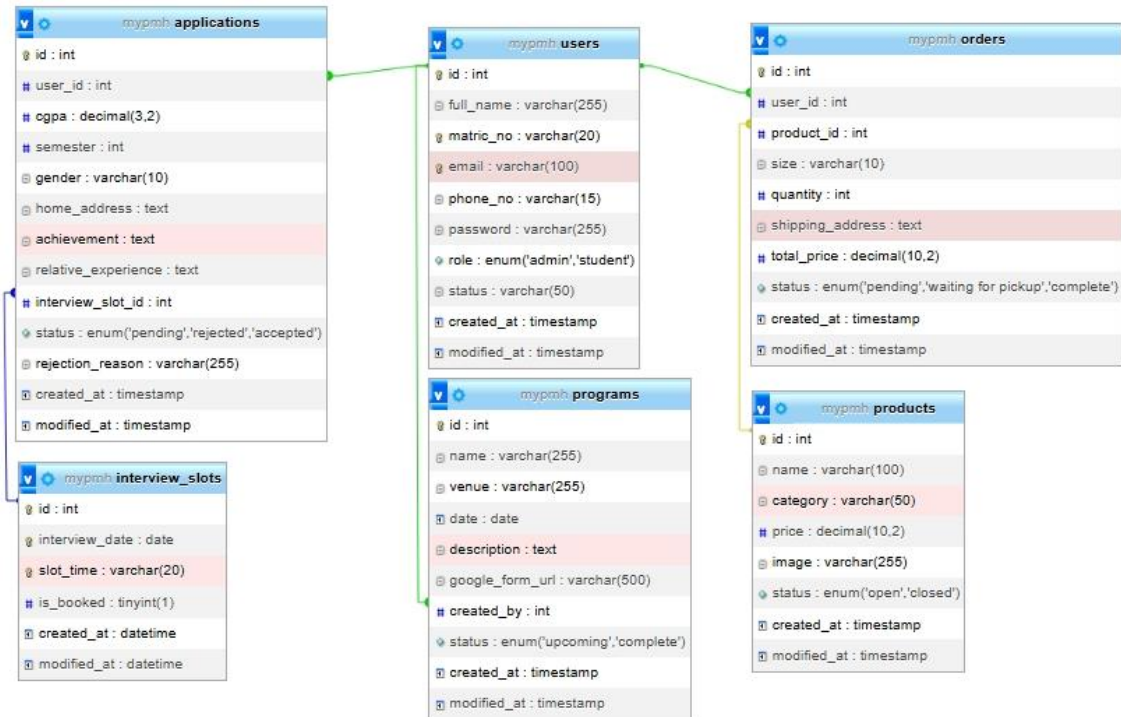


Figure 3.0: ERD of MyPMH

4.0 SYSTEM REQUIREMENTS

4.1 SOFTWARE

The following software is required to run the MyPMH system:

Category	Software	Description
Operating System	Windows 10/11	The development and deployment environment
Web Server Stack	Laragon	Includes Apache web server, MySQL, and PHP
Database Server	MySQL 5.7+ / MariaDB 10.3+	For storing all system data
PHP Runtime	PHP 7.4 or higher	Server-side scripting language
Package Manager	Composer 2.x	PHP dependency manager
Web Browser	Google Chrome / Mozilla Firefox / Microsoft Edge	Latest versions recommended
Text Editor (Optional)	Visual Studio Code	For development purposes

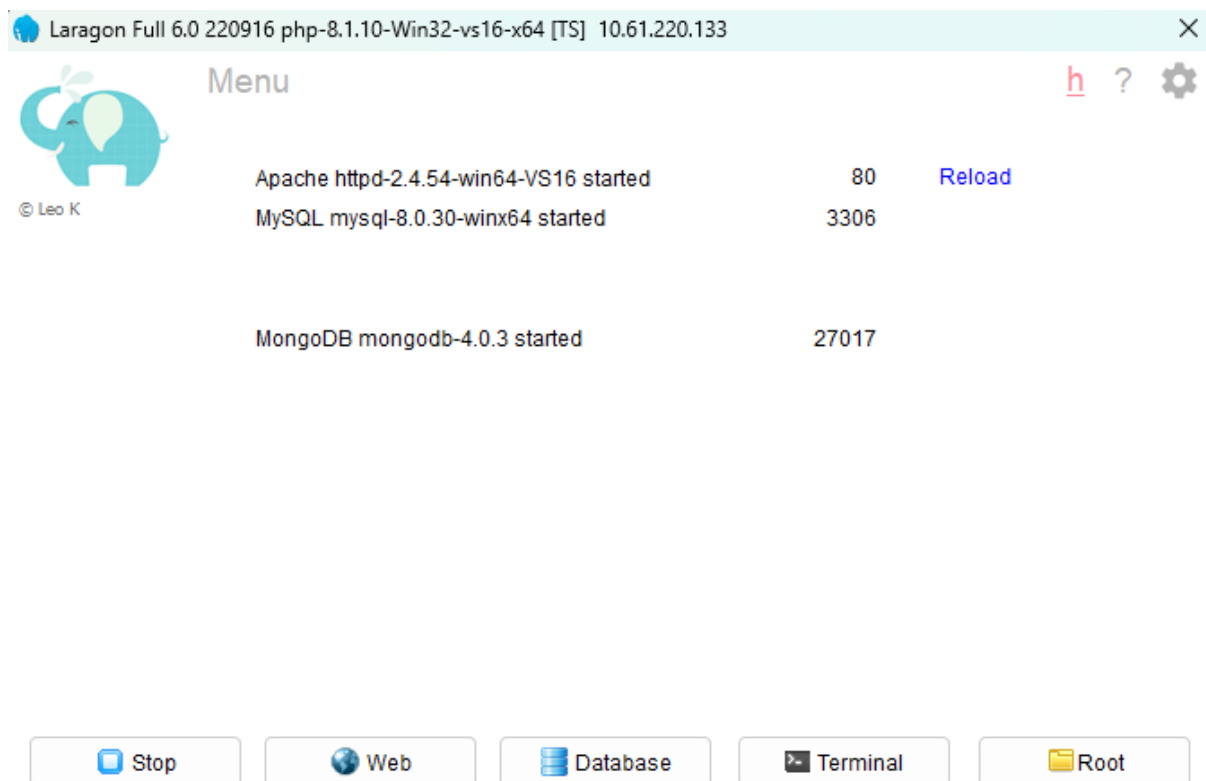


Figure 4.1: Laragon running with Apache and MySQL started.

4.2 VERSION COMPATIBILITY

The MyPMH system has been tested and verified to work with the following software versions:

Component	Minimum Version	Recommended Version
PHP	7.4	8.1 or higher
CakePHP Framework	4.5.0	4.5.0
MySQL	5.7	8.0
MariaDB	10.3	10.6
Composer	2.0	2.6 or higher
Apache	2.4	2.4

The system uses PHP 7.4 as the minimum requirement due to CakePHP 4.x dependencies. However, PHP 8.x is fully supported and recommended for better performance and security.

4.3 DEPENDENCIES

The MyPMH system relies on the following third-party libraries and packages:

Core Dependencies

Package	Version	Purpose
cakephp/cakephp	^4.5.0	Main PHP framework providing MVC architecture
cakephp/authentication	^2.11	Handles user login, logout, and session management
cakephp/migrations	^3.7	Database migration tool for version control
cakephp/plugin-installer	^1.3	Manages CakePHP plugin installation
dompdf/dompdf	^3.1	PDF generation for acceptance/rejection letters and receipts
mobiledetect/mobiledetectlib	^3.74	Detects mobile devices for responsive design

Development Dependencies

Package	Version	Purpose
cakephp/bake	^2.8	Code generation tool for rapid development
cakephp/debug_kit	^4.9	Debugging toolbar for development
phpunit/phpunit	^9.6	Testing framework
cakephp/cakephp-codesniffer	^4.5	Code style checking

Frontend Libraries (CDN-based)

Library	Purpose
Tailwind CSS	Utility-first CSS framework for styling
Font Awesome 6.0	Icon library for user interface icons
Google Fonts (Inter)	Modern typography for clean readability
Flatpickr	Calendar date picker widget

5.0 USER INTERFACE OVERVIEW (LAYOUT, NAVIGATION)

The MyPMH system features a modern, clean, and responsive user interface designed to provide an excellent user experience on both desktop and mobile devices.

5.1 OVERALL LAYOUT STRUCTURE

The system uses a consistent layout throughout all pages with the following components:

1. Header - Contains the logo, main navigation links, real-time clock, and user profile dropdown
2. Main Content Area - Displays the current page content with proper spacing and organization
3. Footer - Shows organization information, quick links, and social media links

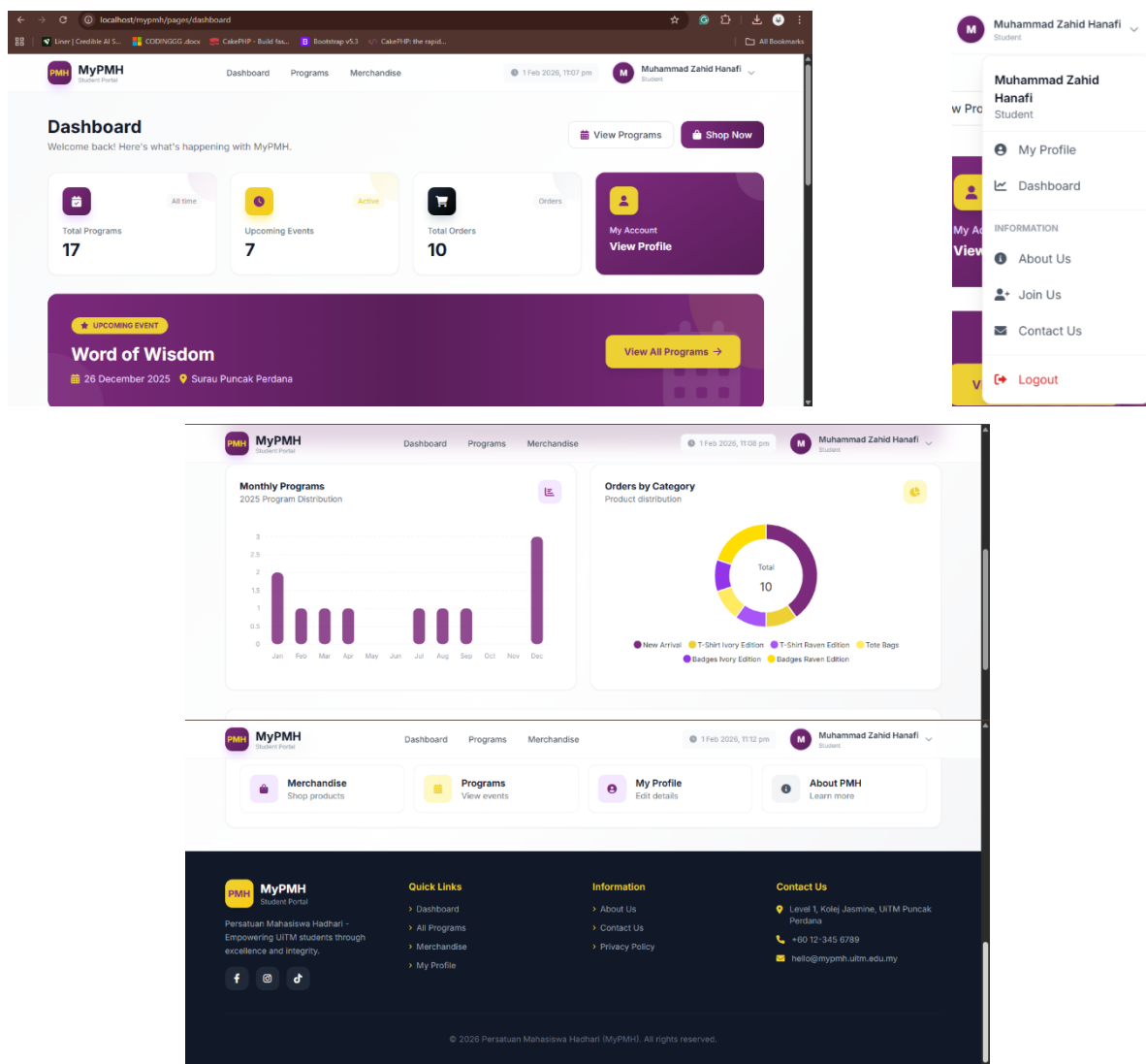


Figure 5.1: complete layout with header, content, and footer visible.

5.2 COLOR SCHEME AND BRANDING

The system follows PMH's official branding:

Element	Color	Hex Code
Primary Color	Purple	#7c2a7c
Primary Dark	Dark Purple	#5a1f5a
Accent Color	Yellow	#edd134
Background	Light Gray Gradient	from-gray-50 to-gray-100
Text Primary	Dark Gray	#111827
Text Secondary	Medium Gray	#6b7280

5.3 NAVIGATION SYSTEM

The navigation system adapts based on the user's role:

Student Navigation Menu:	Administrator Navigation Menu:
Dashboard	Dashboard
All Programs	Programs (with CRUD access)
Merchandise	Orders (Total Order Management)
About Us	Applications (Membership Management)
Join Us (Membership Application)	Merchandise
Contact Us	My Profile
My Profile	Logout
Logout	

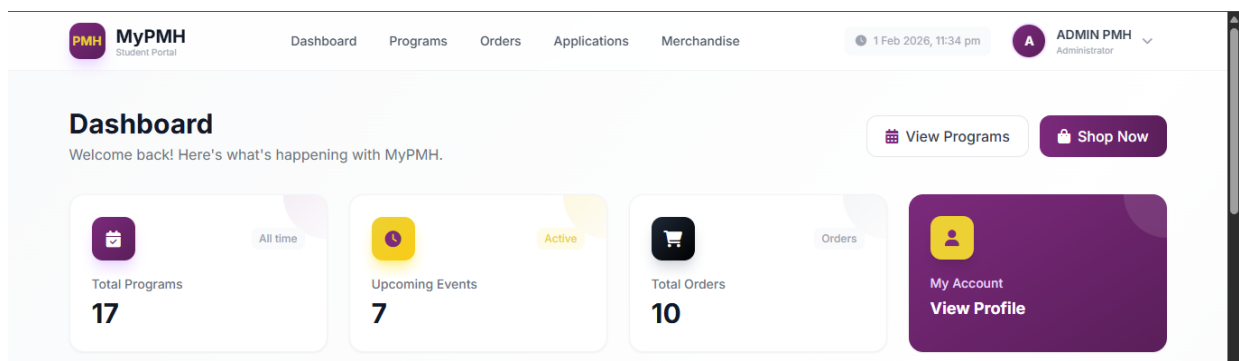


Figure 5.3.1: navigation menu for an admin

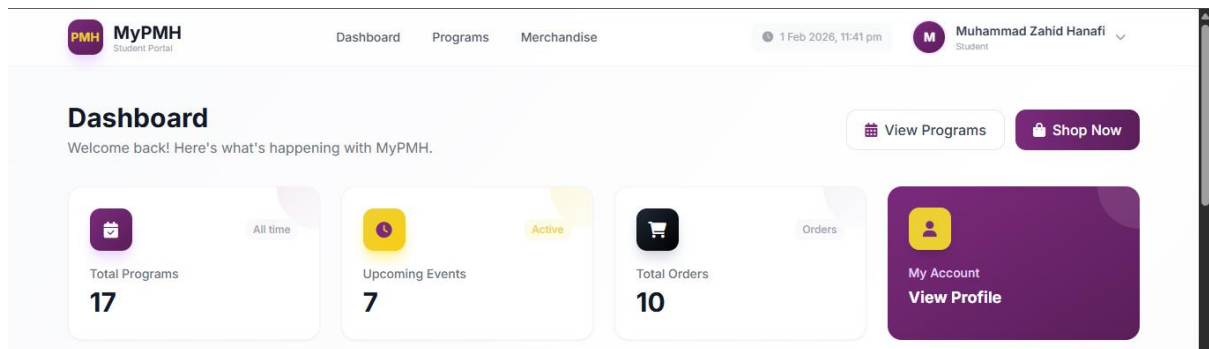


Figure 5.3.2: navigation menu for a student

5.4 MOBILE RESPONSIVE DESIGN

On mobile devices, the navigation collapses into a hamburger menu (≡) that slides in from the left side. This sidebar contains all navigation links and user information in an organized manner.

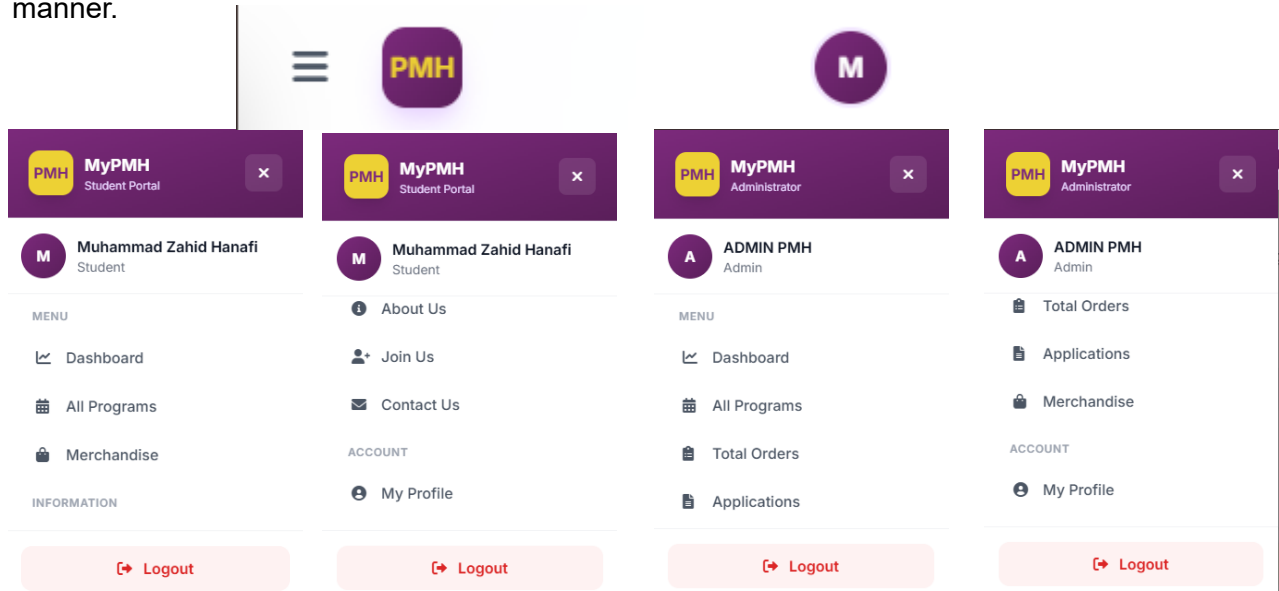


Figure 5.4: the mobile sidebar menu open for student and admin

5.5 USER PROFILE DROPDOWN

The user profile dropdown in the header provides quick access to:

- User's name and role indicator
- My Profile link
- Dashboard link
- Additional links based on role
- Logout button

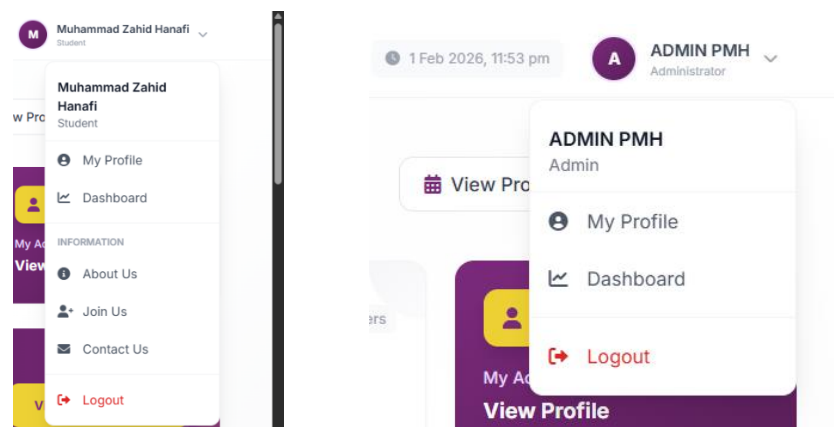


Figure 5.4: user profile dropdown menu expanded for student and admin.

6.0 FEATURES & FUNCTIONALITIES

6.1 USER AUTHENTICATION MODULE

6.1.1 LOGIN PAGE

The login page provides role-based authentication for both students and administrators. Users must select their role (Student or Admin) before entering their credentials.

Key Features:

- Role selection cards (Student/Admin) with visual icons
- Matric number input field with icon indicator
- Password input with show/hide toggle button
- "Forgot Password?" link for password recovery
- "Create Account" link for new user registration
- Modern purple gradient background with floating decorative elements
- Animated logo with glowing effect

How to Use:

1. Select your role by clicking on "Student" or "Admin" card
2. Enter your matric number in the provided field
3. Enter your password
4. Click the "Sign In" button to access the system

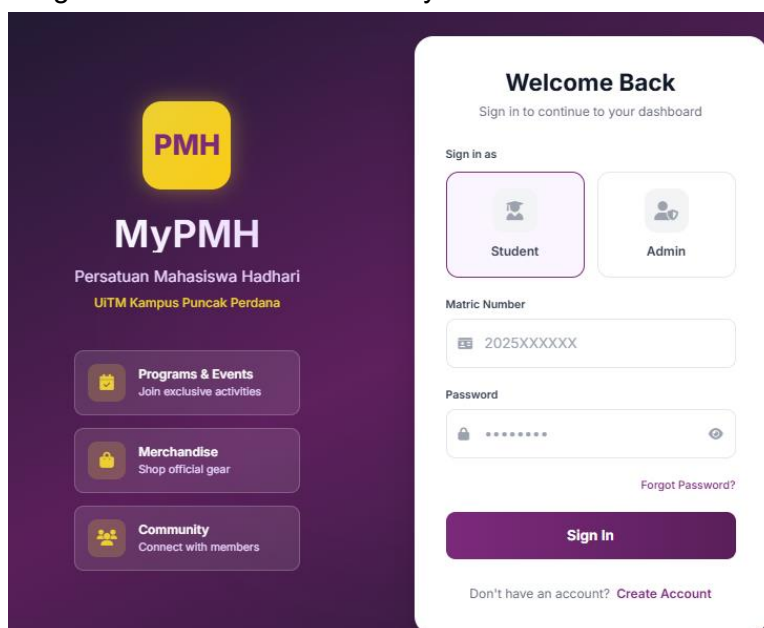


Figure 6.1.1: Login page showing the role selection and login form.

6.1.2 REGISTRATION PAGE

New students can create an account through the registration page. The registration form collects essential information needed for the student profile.

Registration Fields:

- Full Name
- Matric Number (used as username)
- Email Address
- Phone Number
- Password (with confirmation)

Key Features:

- Input validation with error messages
- Password confirmation matching
- Automatic role assignment as "Student"
- Success message upon registration completion
- Redirect to login page after successful registration

How to Use:

1. Click "Create Account" from the login page
2. Fill in all required fields with accurate information
3. Ensure password and confirm password match
4. Click "Register" to create your account
5. You will be redirected to the login page with a success message

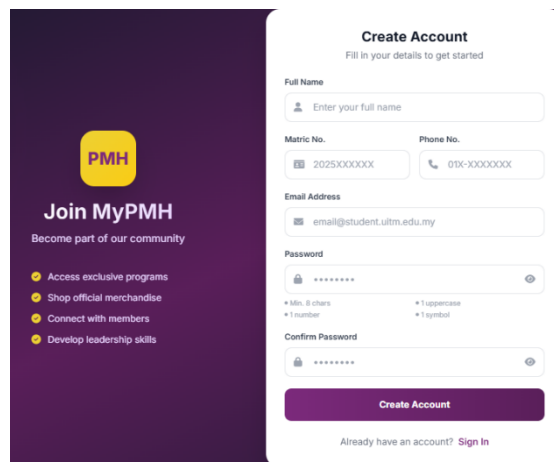
The image shows a mobile application interface for PMH. On the left, a dark purple sidebar contains the PMH logo (a yellow square with 'PMH' in purple) and the text 'Join MyPMH' followed by 'Become part of our community'. Below this are four yellow circular icons with corresponding text: 'Access exclusive programs', 'Shop official merchandise', 'Connect with members', and 'Develop leadership skills'. On the right, a white 'Create Account' form is displayed. The form has a title 'Create Account' and a subtitle 'Fill in your details to get started'. It contains five input fields: 'Full Name' (with a person icon), 'Matric No.' (with a document icon and placeholder '2025XXXXXX'), 'Phone No.' (with a phone icon and placeholder '01X-XXXXXXX'), 'Email Address' (with an email icon and placeholder 'email@student.uitm.edu.my'), and 'Password' (with a lock icon and a strength indicator showing 'Min. 8 chars', '1 number', '1 uppercase', and '1 symbol'). Below the password field is a 'Confirm Password' field with a lock icon and a strength indicator. At the bottom of the form is a purple 'Create Account' button. Below the button is a link that says 'Already have an account? Sign In'.

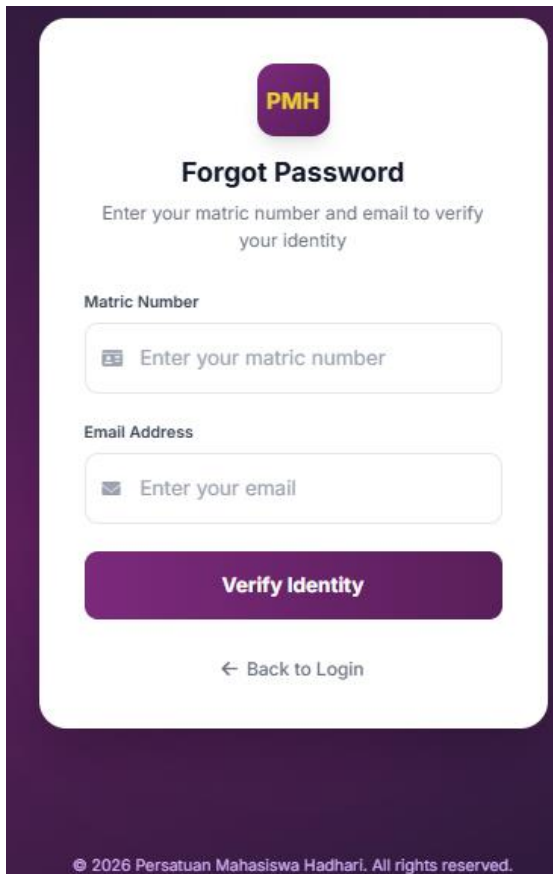
Figure 6.1.2: Registration page showing the registration form.

6.1.3 FORGOT PASSWORD

Students can recover their account access through the forgot password feature. The system verifies the user's identity using their matric number and registered email.

How to Use:

1. Click "Forgot Password?" on the login page
2. Enter your matric number
3. Enter your registered email address
4. If verification is successful, you will be directed to reset your password
5. Enter a new password and confirm it
6. Login with your new password

The image shows a mobile app interface for the 'Forgot Password' feature. At the top is a purple square logo with 'PMH' in yellow. Below it is the title 'Forgot Password' in bold. A subtitle reads 'Enter your matric number and email to verify your identity'. There are two input fields: 'Matric Number' with a keyboard icon and 'Email Address' with an email icon. Below these is a large purple button labeled 'Verify Identity'. At the bottom is a link '← Back to Login'. The footer contains the copyright notice '© 2026 Persatuan Mahasiswa Hadhari. All rights reserved.'

PMH

Forgot Password

Enter your matric number and email to verify your identity

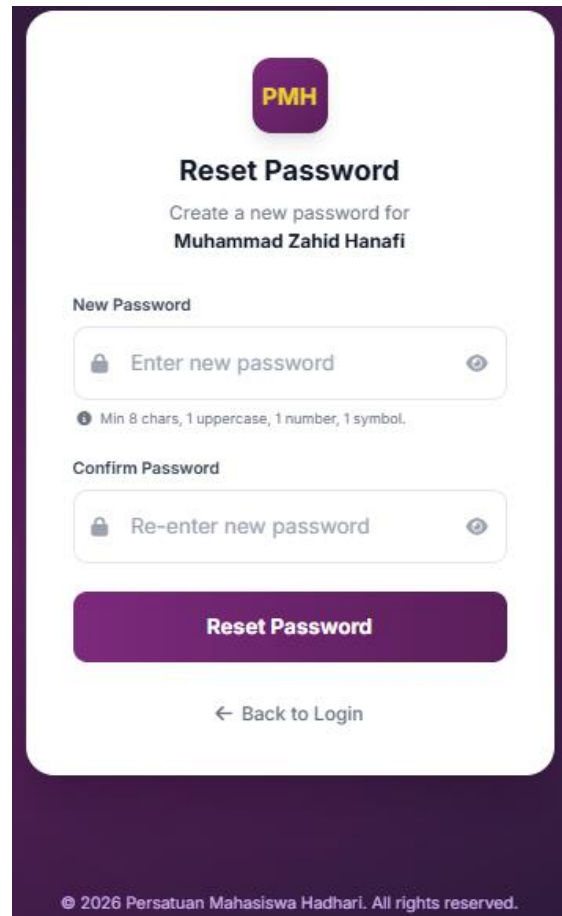
Matric Number

Email Address

Verify Identity

[← Back to Login](#)

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The image shows a mobile app interface for the 'Reset Password' feature. At the top is a purple square logo with 'PMH' in yellow. Below it is the title 'Reset Password' in bold. A subtitle reads 'Create a new password for Muhammad Zahid Hanafi'. There are two password input fields: 'New Password' and 'Confirm Password', both with a lock icon and a toggle eye icon. Between them is a strength indicator: 'Min 8 chars, 1 uppercase, 1 number, 1 symbol.' Below the fields is a large purple button labeled 'Reset Password'. At the bottom is a link '← Back to Login'. The footer contains the copyright notice '© 2026 Persatuan Mahasiswa Hadhari. All rights reserved.'

PMH

Reset Password

Create a new password for Muhammad Zahid Hanafi

New Password

Min 8 chars, 1 uppercase, 1 number, 1 symbol.

Confirm Password

Reset Password

[← Back to Login](#)

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Figure 6.1.3.1: Forgot Password page.

Figure 6.1.3.2: Reset Password page.

6.1.4 USER PROFILE MANAGEMENT

Logged-in users can view and update their profile information through the My Profile page.

Editable Fields:

- Full Name
- Email Address
- Phone Number
- Password (optional - leave blank to keep current password)

Key Features:

- Display of current profile information
- Form validation for all fields
- Password change with proper hashing
- Success message upon update

The screenshot displays the 'MyPMH' Student Portal interface. The top navigation bar includes 'Dashboard', 'Programs', and 'Merchandise'. The user is logged in as 'Muhammad Zahid Hanafi' (Student) on '2 Feb 2026, 12:44 am'. The profile card on the left shows the user's name, matric number (2025127713), email (zahidhanafi52@gmail.com), phone (0178436055), and status (Active). The main 'Edit Profile' section contains input fields for 'Full Name', 'Email Address', 'Phone Number', and 'New Password'. The 'New Password' field has a note: 'Must contain at least 8 characters, 1 uppercase, 1 number, and 1 symbol.' The 'Matric No.' field is disabled with the text '(Cannot be changed)'. At the bottom, there are 'Save Changes' and 'Cancel' buttons.

Figure 6.1.4: User Profile page showing the profile editing form.

6.2 PROGRAMS MANAGEMENT MODULE

6.2.1 ALL PROGRAMS PAGE (STUDENT VIEW)

Students can view all PMH programs and events through the All Programs page. This page features an interactive calendar and a comprehensive program list.

Key Features:

- Interactive calendar using Flatpickr library
- Color-coded dates: Yellow for upcoming programs, Green for completed programs
- Program list with date, name, venue, status, and "Join" button
- Information about student benefits (Free food, E-Merit points)
- "Join Now" buttons linking to Google Form registration
- "Coming Soon" indicator for programs without registration links

Calendar Legend:

- Yellow dates = Upcoming programs
- Green dates = Completed programs
- Click on any highlighted date to see program details

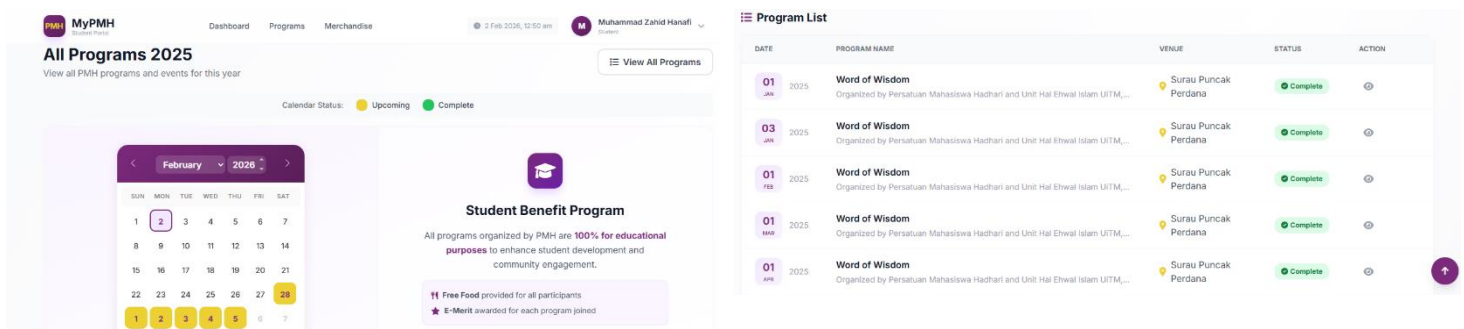


Figure 6.2.1.1: All Programs page showing the calendar and program list.



Figure 6.2.1.2: showing program details when clicking on a calendar date with programs.

6.2.2 PROGRAM DETAILS PAGE

Users can view detailed information about each program by clicking on the program name or "Details" button.

Information Displayed:

- Program name
- Date and time
- Venue/Location
- Program description
- Status (Upcoming/Complete)
- Join button (if available)

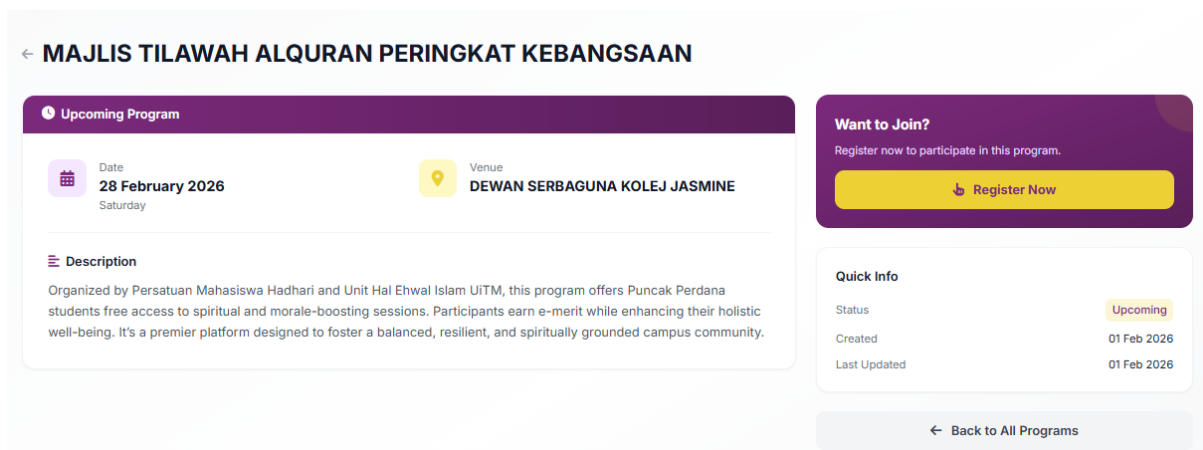


Figure 6.2.2: Program Details page.

6.2.3 PROGRAMS MANAGEMENT (ADMIN ONLY)

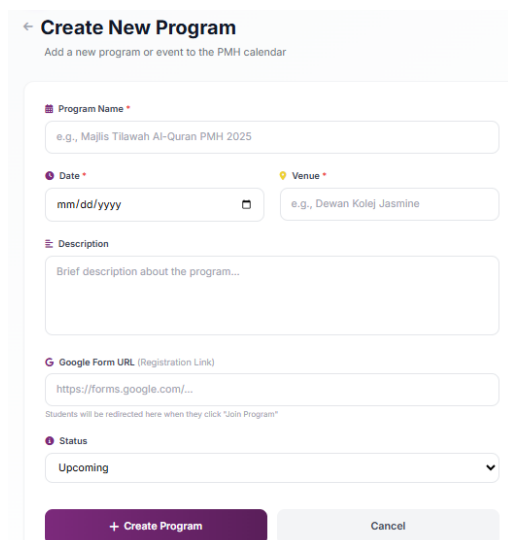
Administrators have full CRUD (Create, Read, Update, Delete) access to manage programs.

Admin Capabilities:

- Create: Add new programs with name, date, venue, description, status, and Google Form URL
- Read: View all programs in list format with complete details
- Update: Edit any program information
- Delete: Remove programs with confirmation prompt

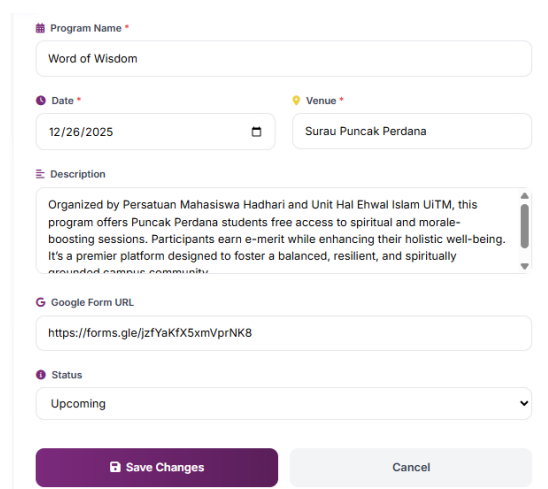
Add New Program Form Fields:

- Program Name (required)
- Date (required)
- Venue (required)
- Description (optional)
- Status (Upcoming/Complete)
- Google Form URL (optional - for registration)



The 'Create New Program' form is a light purple-themed interface. It includes a title bar with a back arrow and the text 'Create New Program' and 'Add a new program or event to the PMH calendar'. The form contains several input fields: 'Program Name' with a placeholder 'e.g., Majlis Tilawah Al-Quran PMH 2025', 'Date' with a placeholder 'mm/dd/yyyy' and a calendar icon, 'Venue' with a placeholder 'e.g., Dewan Kolej Jasmine' and a location pin icon, 'Description' with a placeholder 'Brief description about the program...', 'Google Form URL (Registration Link)' with a placeholder 'https://forms.google.com/...', and a 'Status' dropdown menu currently set to 'Upcoming'. At the bottom are two buttons: '+ Create Program' and 'Cancel'.

Figure 6.2.3.1: Add New Program form.



The 'Edit Program' form is a light purple-themed interface. It includes a title bar with a pencil icon and the text 'Program Name *'. The form contains several input fields: 'Program Name' with the value 'Word of Wisdom', 'Date' with the value '12/26/2025' and a calendar icon, 'Venue' with the value 'Surau Puncak Perdana' and a location pin icon, 'Description' with a text area containing a paragraph about 'Persatuan Mahasiswa Hadhari and Unit Hal Ehwal Islam UiTM', 'Google Form URL' with the value 'https://forms.gle/jzfYakfX5xmVprNK8', and a 'Status' dropdown menu currently set to 'Upcoming'. At the bottom are two buttons: 'Save Changes' and 'Cancel'.

Figure 6.2.3.2: Edit Program form.

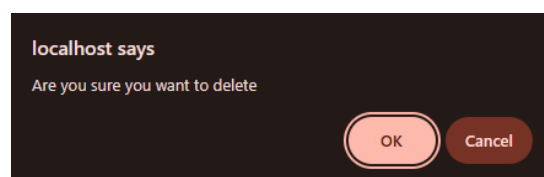


Figure 6.2.3.3: Delete confirmation dialog for a program.

6.3 MEMBERSHIP APPLICATIONS MODULE

6.3.1 JOIN US PAGE (STUDENT VIEW)

Students interested in joining PMH can submit their membership application through the "Join Us" page.

Page Sections:

- Benefits Information Card:
- Access to exclusive leadership development programs
- Networking opportunities with industry professionals
- Priority registration for PMH events
- Certificate of participation for portfolio

Important Notes:

- Only Semester 1-4 students are eligible
- Open to all UiTM Puncak Perdana students
- Accepted members undergo one-semester trial as Adhoc
- My Applications Section:
- View all submitted applications
- Track application status (Pending/Accepted/Rejected)
- View, Edit, or Withdraw pending applications
- Download PDF letter for processed applications

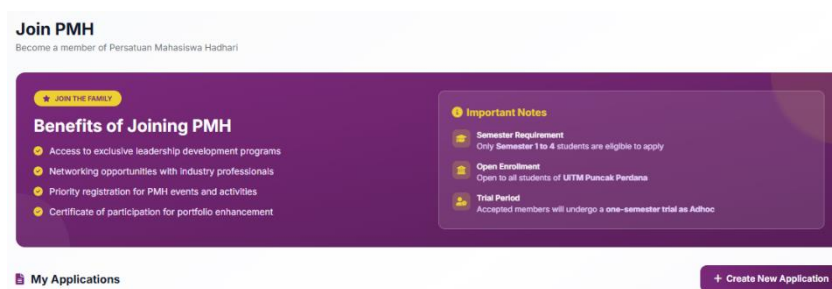


Figure 6.3.1.1: Join Us page showing the benefits card and important notes.



NAME	MATRIC NO	GENDER	CGPA	SEMESTER	STATUS	ACTIONS
Wafiq Jamaludin	2025444555	Male	3.80	4	Pending	  

Figure 6.3.1.2: My Applications table

6.3.2 APPLICATION SUBMISSION FORM

When students click "Create New Application," they are directed to the application form.

Application Form Fields:

- Gender (Male/Female)
- Current Semester (1-4)
- CGPA (0.00-4.00)
- Interview Slot Selection (from available slots)
- Additional information as required

Key Features:

- Pre-filled user information from profile
- Dropdown for available interview slots
- Validation for CGPA range
- Semester restriction (1-4 only)

The image displays two parts of the application submission process. The top part is the 'New Application' form, which is titled 'Fill in the form to apply for PMH membership'. It contains several sections: 'YOUR INFORMATION (AUTO-CAPTURED FROM PROFILE)' with pre-filled fields for Full Name (Wafiq Jamaludin), Matric Number (2025444555), Email (student04@gmail.com), and Phone Number (0178436055); 'Current CGPA' (3.80), 'Current Semester' (Semester 4), and 'Gender' (Male); and 'Home Address' (2-04-10 JALAN 9/118B BLOCK 2 RUMAH PANGSA). To the right, there are optional fields for 'Achievements' and 'Relative Experience', followed by a 'Select Interview Session' dropdown menu showing 'Tuesday, 10 March 2026 (9pm-10pm)'. At the bottom of the form are 'Submit Application' and 'Cancel' buttons. The bottom part of the image shows a 'Confirm Submission' modal with a yellow warning icon. It contains a declaration: 'Declaration: All the information I have provided in this application is 100% true and accurate. I understand that if PMH discovers any manipulation or false information, my application will be immediately rejected.' Below the declaration are two buttons: 'I Confirm' and 'Cancel'.

Figure 6.3.2: Application Submission form.

6.3.3 APPLICATIONS MANAGEMENT (ADMIN ONLY)

Administrators can manage all membership applications through the Applications Management page.

Dashboard Statistics Cards:

- Total Applications count
- Pending Review count
- Total Accepted count
- Total Rejected count

Search & Filter Options:

- Search by Name (case-insensitive)
- Search by Matric Number (exact match)
- Filter by Gender (Male/Female/All)
- Sort by Latest First / CGPA (Highest) / Semester (1-4)

Interview Slots Management:

- Add new interview slots (Date + Time)
- View existing slots with booking status
- Delete unbooked slots
- Time slots: 8PM-9PM or 9PM-10PM
- Days: Monday, Tuesday, Wednesday only

Applications Table Columns:

- Name
- Matric No
- Gender
- CGPA
- Semester
- Status
- Actions (View/Accept/Reject/PDF)

Applications Management

Review and manage PMH membership applications

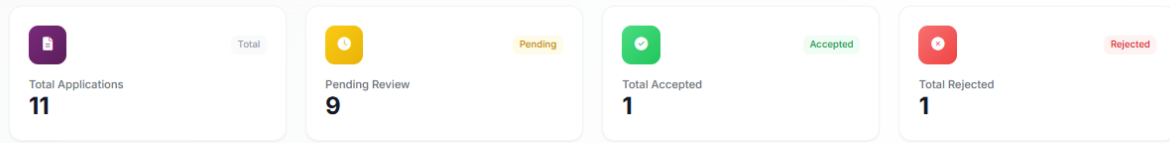


Figure 6.3.3.1: Applications Management page showing the statistics cards.

Search & Filter

Search by Name

Search by Matric No (Exact)

Filter by Gender

All Genders

Sort By

Latest First

Apply Filters

Reset

Figure 6.3.3.2: Search & Filter section.

Interview Slots

Date (Mon-Wed only)

Time Slot

8:00 PM - 9:00 PM

[+ Add Slot](#)

Available Slots

- Mon, 09 Mar 8pm-9pm Booked
- Mon, 09 Mar 9pm-10pm Booked
- Tue, 10 Mar Booked

Figure 6.3.3.3: Interview Slots Management section.

All Applications						
NAME	MATRIC NO	GENDER	CGPA	SEMESTER	STATUS	ACTIONS
Wafiq Jamaludin	2025444555	Male	3.80	4	Pending	View Check X
Muhammad Zahid Hanafi	2025127713	Male	4.00	4	Accepted	View X
Rosmah Norhaliza	2025000111	Female	3.10	2	Rejected	View X
Nur Bainun	2025999000	Female	3.20	1	Pending	View Check X
Jokowi Trump	2025888999	Male	3.30	4	Pending	View Check X

Figure 6.3.3.4: Applications table with sample data.

6.3.4 ACCEPT/REJECT APPLICATION (ADMIN ONLY)

Administrators can process applications by accepting or rejecting them.

Accept Application:

1. Click the green checkmark (✓) button
2. Confirm the action in the popup dialog
3. Application status changes to "Accepted"
4. System generates acceptance letter (PDF)

Reject Application:

1. Click the red X button
2. Select rejection reason from dropdown:
 - CGPA below minimum requirement
 - Failed interview assessment
 - Incomplete documentation
 - Position already filled
 - Other academic conflicts
3. Click "Confirm Reject"
4. System generates rejection letter (PDF)

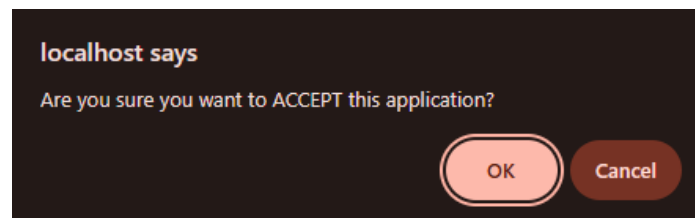


Figure 6.3.4.1: Accept confirmation dialog.

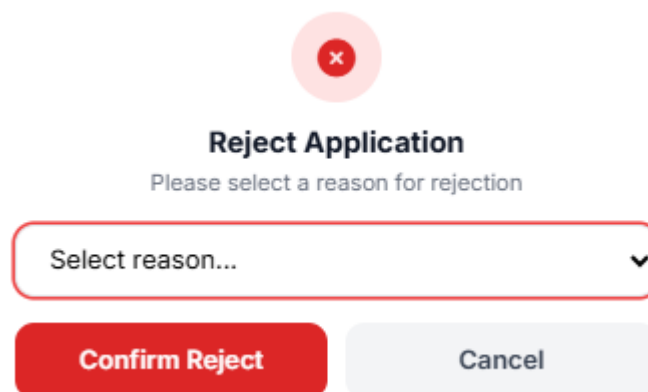


Figure 6.3.4.2: Reject modal with reason selection.

6.3.5 PDF LETTERS (ACCEPTANCE/REJECTION)

The system automatically generates official PDF letters when applications are processed.

Letter Contents:

- Official PMH letterhead
- Student's name and details
- Application reference number
- Decision (Accepted/Rejected)
- Rejection reason (if applicable)
- Next steps and instructions
- Authorized signatures area



The image shows a PDF acceptance letter from PMH (Pusat Makluman Hadiah). The letter is addressed to Muhammad Zahid Hanafi. It includes a green 'ACCEPTED' button and a congratulatory message. Below the message is a table of applicant details. At the bottom, there is a footer with contact information for PMH.

PMH

Ref: PMHAPP/2020/0028 | Date: 01 February 2020

Dear **Muhammad Zahid Hanafi**,

ACCEPTED

Congratulations! Your application to join **Penatuan Mahasiswa Hadiah (PMH)** has been **ACCEPTED**. Welcome to the PMH family! You will undergo a **one-semester trial period** as an **Adhoc** member. Our team will contact you shortly.

APPLICANT DETAILS

Full Name	Muhammad Zahid Hanafi
Matric Number	2020127713
Email	zaidhanafi5@gmail.com
Phone	0178436055
Gender / Semester	Male / Semester 4
CUKPA	4.00
Interview	18 Mar 2020 (9pm-10pm)
Applied On	01 Feb 2020, 13:03

This is a computer-generated document. No signature is required.

Penatuan Mahasiswa Hadiah (PMH)
Level 1, Suite 100, 127th Floor, Petronas, Shah Alam, Selangor
Email: info@pmh.utm.edu.my | Phone: +60 12 345 6789

Figure 6.3.5.1: Acceptance Letter PDF.



The image shows a PDF rejection letter from PMH (Pusat Makluman Hadiah). The letter is addressed to Rosmah Norhaliza. It includes a red 'REJECTED' button and a message explaining the rejection. Below the message is a table of applicant details. At the bottom, there is a footer with contact information for PMH.

PMH

Ref: PMHAPP/2020/0028 | Date: 01 February 2020

Dear **Rosmah Norhaliza**,

REJECTED

We regret to inform you that your application to join **Penatuan Mahasiswa Hadiah (PMH)** has been **REJECTED**.
Reason: The information provided was found to be false or manipulated.
We encourage you to try again in future application periods.

APPLICANT DETAILS

Full Name	Rosmah Norhaliza
Matric Number	2020000111
Email	student11@gmail.com
Phone	0178436055
Gender / Semester	Female / Semester 2
CUKPA	3.10
Interview	17 Mar 2020 (9pm-10pm)
Applied On	01 Feb 2020, 13:01

This is a computer-generated document. No signature is required.

Penatuan Mahasiswa Hadiah (PMH)
Level 1, Suite 100, 127th Floor, Petronas, Shah Alam, Selangor
Email: info@pmh.utm.edu.my | Phone: +60 12 345 6789

Figure 6.3.5.2: Rejection Letter PDF.

6.4 MERCHANDISE STORE MODULE

6.4.1 MERCHANDISE LISTING PAGE

The Merchandise Store displays all official PMH products organized by category.

Product Categories:

- New Arrival
- T-Shirt Ivory Edition
- T-Shirt Raven Edition
- Tote Bags
- Badges Ivory Edition
- Badges Raven Edition

Key Features:

- Category filter dropdown
- Reset filter button
- Grid layout of product cards (5 columns on desktop)
- Product image with hover zoom effect
- Product name and price display
- "Quick Order" button on hover
- Cart icon button for quick ordering
- "Unavailable" badge for closed products

Each Product Card Shows:

- Product image
- Product name
- Price in RM (Ringgit Malaysia)
- Add to cart button

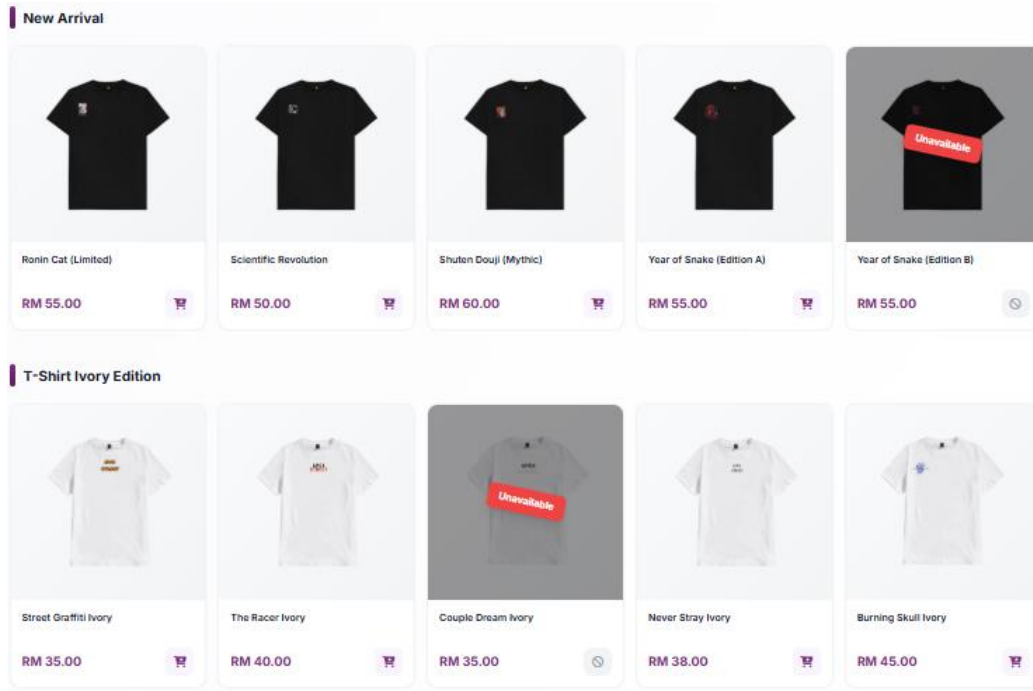


Figure 6.4.1.1: Merchandise Store page showing multiple product categories.

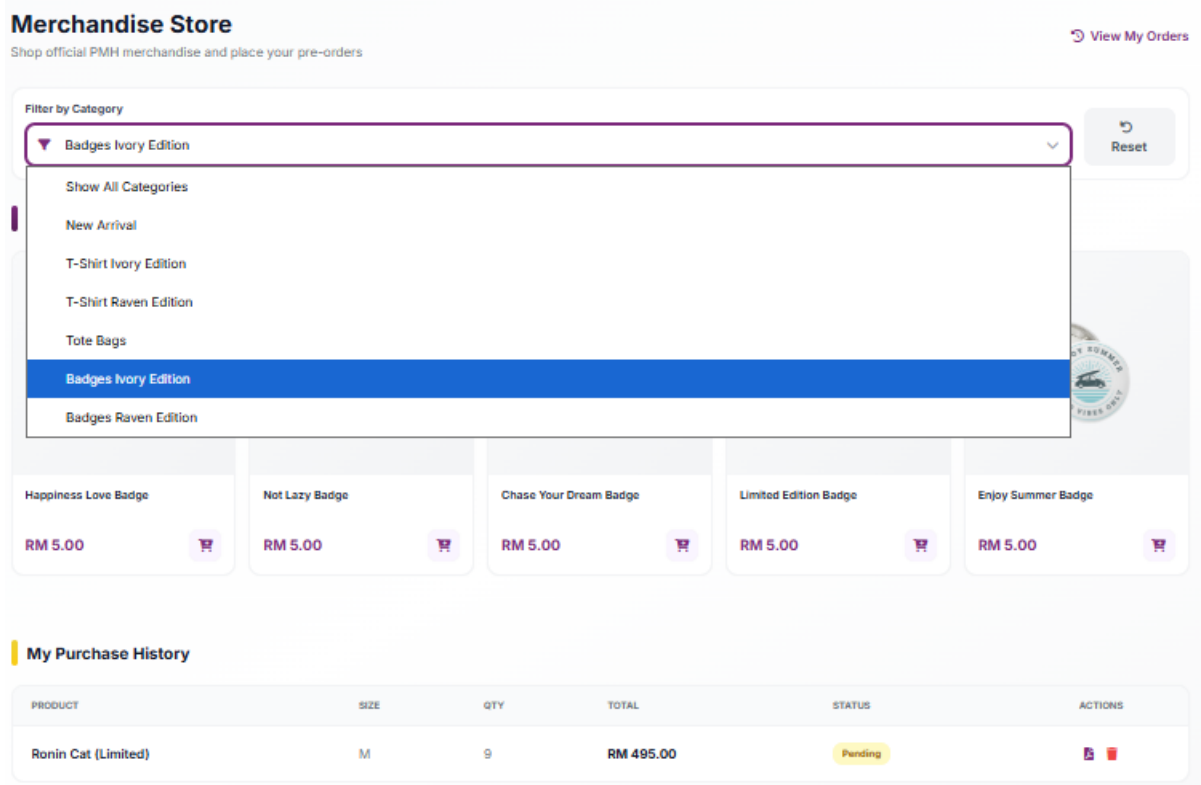


Figure 6.4.1.2: category filter dropdown.

6.4.2 ORDER MODAL (PRE-ORDER)

When students click to order a product, a modal popup appears for order configuration.

- **Order Modal Fields:**
- Product Name (displayed, not editable)
- Pickup Location (Self-Pickup at Kolej Jasmine)
- Size (XS, S, M, L, XL, 2XL, N/A)
- Quantity (minimum 1)
- Total Amount (calculated automatically)

Features:

- Real-time total calculation as quantity changes
- Clean modal design with gradient header
- Close button (X) to cancel
- "Confirm Pre-Order" button to submit.

The image shows a mobile application modal titled "Scientific Revolution" with a close button (X) in the top right corner. The modal contains the following fields and elements:

- Pickup Location:** A dropdown menu showing "Self-Pickup at Kolej Jasmine" with a downward arrow.
- Size:** A dropdown menu showing "L" with a downward arrow.
- Quantity:** A text input field showing the value "4".
- Total Amount:** A yellow highlighted box containing the text "Total Amount" and "RM 200.00" in a large, bold, purple font.
- Confirm Pre-Order:** A purple button with white text at the bottom of the modal.

Figure 6.4.2: Order Modal popup with all fields visible.

6.4.3 PURCHASE HISTORY (STUDENT)

Students can view their order history in the "My Purchase History" section below the product listing.

Order History Table Columns:

- Product Name
- Size
- Quantity
- Total Price
- Status (Pending/Complete)
- Actions (Receipt PDF, Cancel Order)

Features:

- Download receipt as PDF
- Cancel pending orders with confirmation





My Purchase History					
PRODUCT	SIZE	QTY	TOTAL	STATUS	ACTIONS
Scientific Revolution	L	4	RM 200.00	Pending	 
Ronin Cat (Limited)	M	9	RM 495.00	Pending	 

Figure 6.4.3: My Purchase History section with order entries.

6.4.4 PRODUCT STATUS MANAGEMENT (ADMIN ONLY)

Administrators can enable or disable products for ordering.

How to Use:

1. Click the pencil icon on any product card
2. Select status: Open (Available) or Closed (Unavailable)
3. Confirm the change
4. Products marked as "Closed" will show "Unavailable" overlay

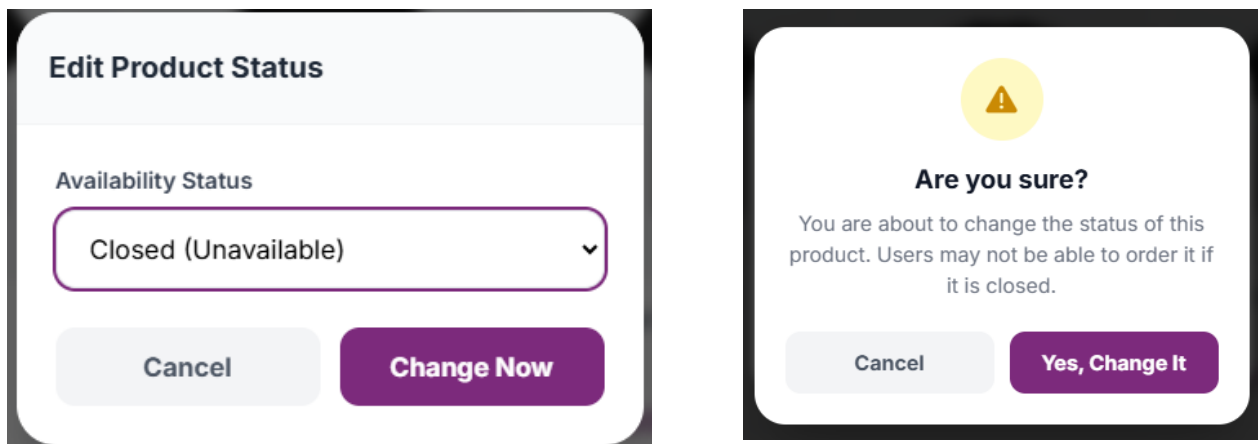


Figure 6.4.4.1: Edit Status modal for products.

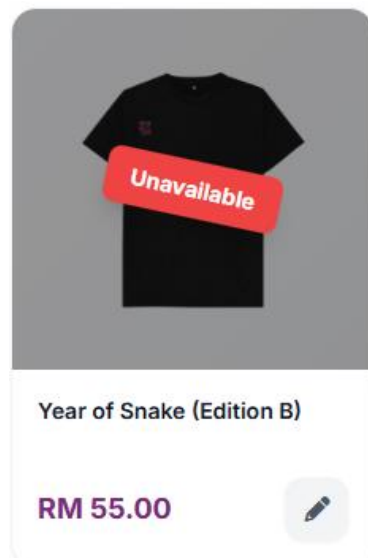


Figure 6.4.4.2: product with "Unavailable" badge.

6.5 ORDERS MANAGEMENT MODULE (ADMIN ONLY)

6.5.1 TOTAL ORDERS PAGE

Administrators can view and manage all merchandise orders through the Total Orders page.

Orders Table Columns:

- Order ID
- Student Name
- Product Name
- Size
- Quantity
- Total Price
- Status
- Actions

Features:

- View all orders from all students
- Update order status (Pending → Complete)
- View individual order details

Order Management

View and manage all merchandise orders

Total Orders
11

Pending
9

Completed
1

ORDER	PRODUCT	CUSTOMER	STATUS	UPDATE
#PMH-37 01 Feb 2026	Scientific Revolution Size: L Qty: 4	Muhammad Zahid Hanafi Self-Pickup at Kolej Jasmine	Complete	Complete ▼
#PMH-36 01 Feb 2026	Shuten Douji (Mythic) Size: M Qty: 10	Hadi Sanusi Self-Pickup at Kolej Jasmine	Waiting for pickup	Waiting for Pickup ▼
#PMH-35 01 Feb 2026	Just Be Cool Badge Size: N/A Qty: 1	Siti Ramlah Self-Pickup at Kolej Jasmine	Pending	Pending ▼

Figure 6.5.1: Total Orders page showing the orders table.

6.5.2 PDF RECEIPT GENERATION

The system generates PDF receipts for merchandise orders.

Receipt Contents:

- Order reference number
- Student details
- Product details
- Quantity and pricing
- Pickup location
- Order date
- Payment status

MYPMH
Official Pre-Order Receipt
Persatuan Mahasiswa Hadhari
UITM Puncak Perdana, Kolej Jasmine

CUSTOMER NAME: **Muhammad Zahid Hanafi** RECEIPT NO: **#PMH-37**

MATRIC NUMBER: **2025127713** DATE ISSUED: **01 Feb 2026, 06:20 PM**

ITEM DESCRIPTION	SIZE	QUANTITY
Scientific Revolution Category: New Arrival	L	4

TOTAL AMOUNT DUE **RM 200.00**

PENDING ? WAITING FOR PICKUP ? PAID & COLLECTED

Payment Instructions:
Please present this receipt at the **PMH Counter (Kolej Jasmine / Office)** when the status changes to "Waiting for Pickup".

ACCEPTED PAYMENT METHODS:

- Cash
- QR Pay / Online Transfer

This is a computer-generated document. No signature is required.
Generated by MyPMH Student Portal v1.0

Figure 6.5.2: Generated PDF Receipt.

6.6 DASHBOARD MODULE

The Dashboard provides a comprehensive, high-level overview of the MyPMH ecosystem. It is designed to give users immediate access to key metrics, upcoming events, and quick navigation tools through a modern and visually engaging interface.

Key Dashboard Components:

1. Information Header:

- Welcome message providing a personalized user experience.
- Primary action buttons for direct access to the Programs and Merchandise modules.

2. Advanced Statistics Cards:

- Total Programs: High-level count of all activities organized by PMH.
- Upcoming Events: Real-time counter of active and future programs.
- Total Orders: Tracks the number of merchandise pre-orders placed.
- My Account Card: High-visibility shortcut to the user's profile and settings.

3. Featured Upcoming Event Banner:

- A prominent, gradient-styled section that highlights the single most important upcoming program.
- Displays specific event details including the Program Name, Date, and Venue.
- Features a "View All Programs" call-to-action button.

4. Data Visualizations (ApexCharts):

- Monthly Programs Chart: A purple-themed bar chart showing the distribution of programs throughout the year.
- Orders by Category Chart: A multi-colored donut chart illustrating the popularity of different merchandise categories.

5. Quick Action Grid:

- Large, interactive tiles providing one-click access to:
 - Merchandise Store (Shop products)
 - Programs Calendar (View events)
 - My Profile (Edit details)
 - About PMH (Organizational information)

How to Use:

- Users land here immediately after login to see "what's happening" at a glance.
- The charts provide a visual understanding of organizational growth and product trends.
- The featured banner ensures that no student misses out on the next major PMH activity.

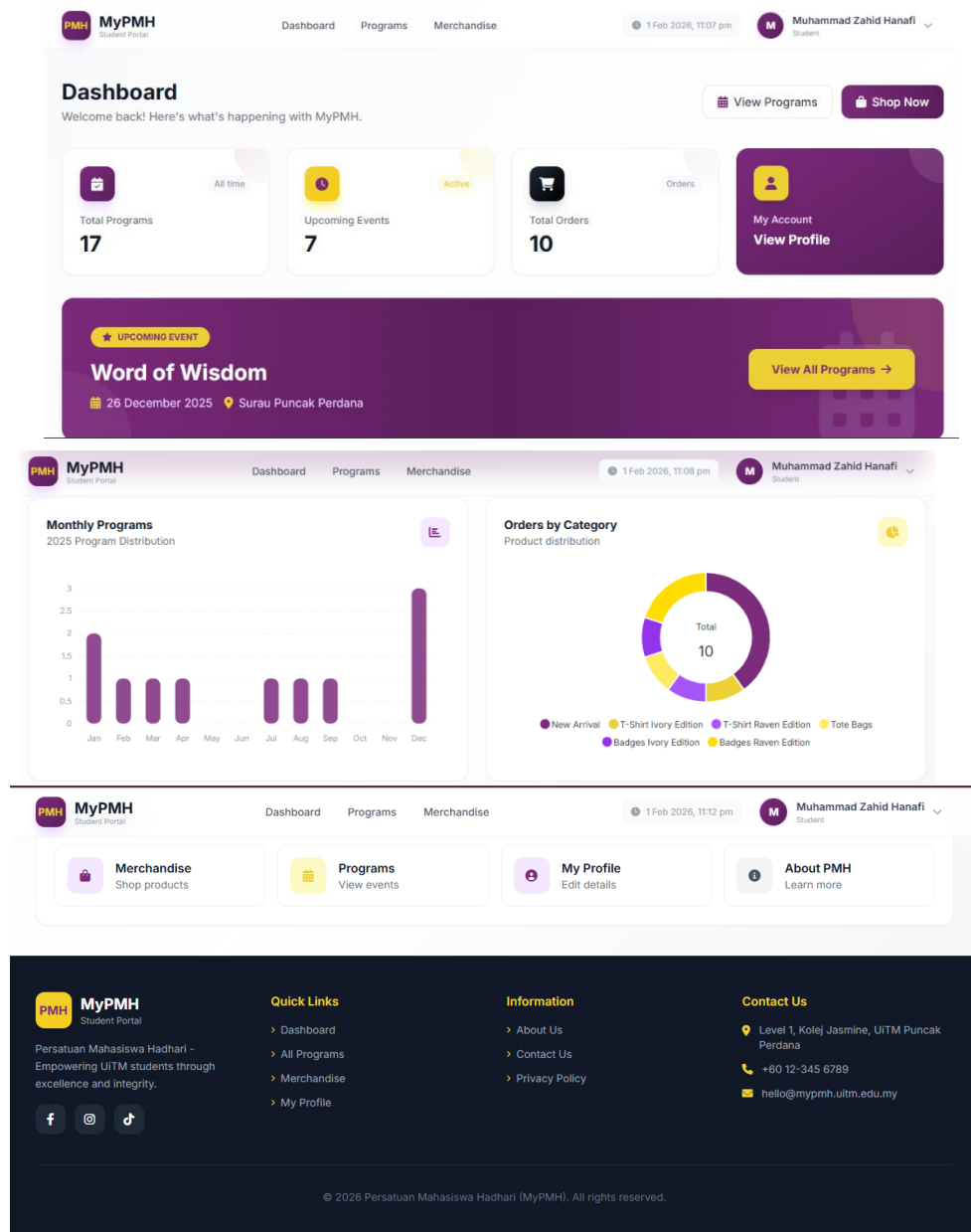


Figure 6.6: Dashboard showing the statistics cards, charts, and quick actions.

6.7 INFORMATION PAGES

6.7.1 ABOUT US PAGE

Static information page about Persatuan Mahasiswa Hadhari including:

- Organization history
- Mission and vision
- Organizational structure
- Contact information

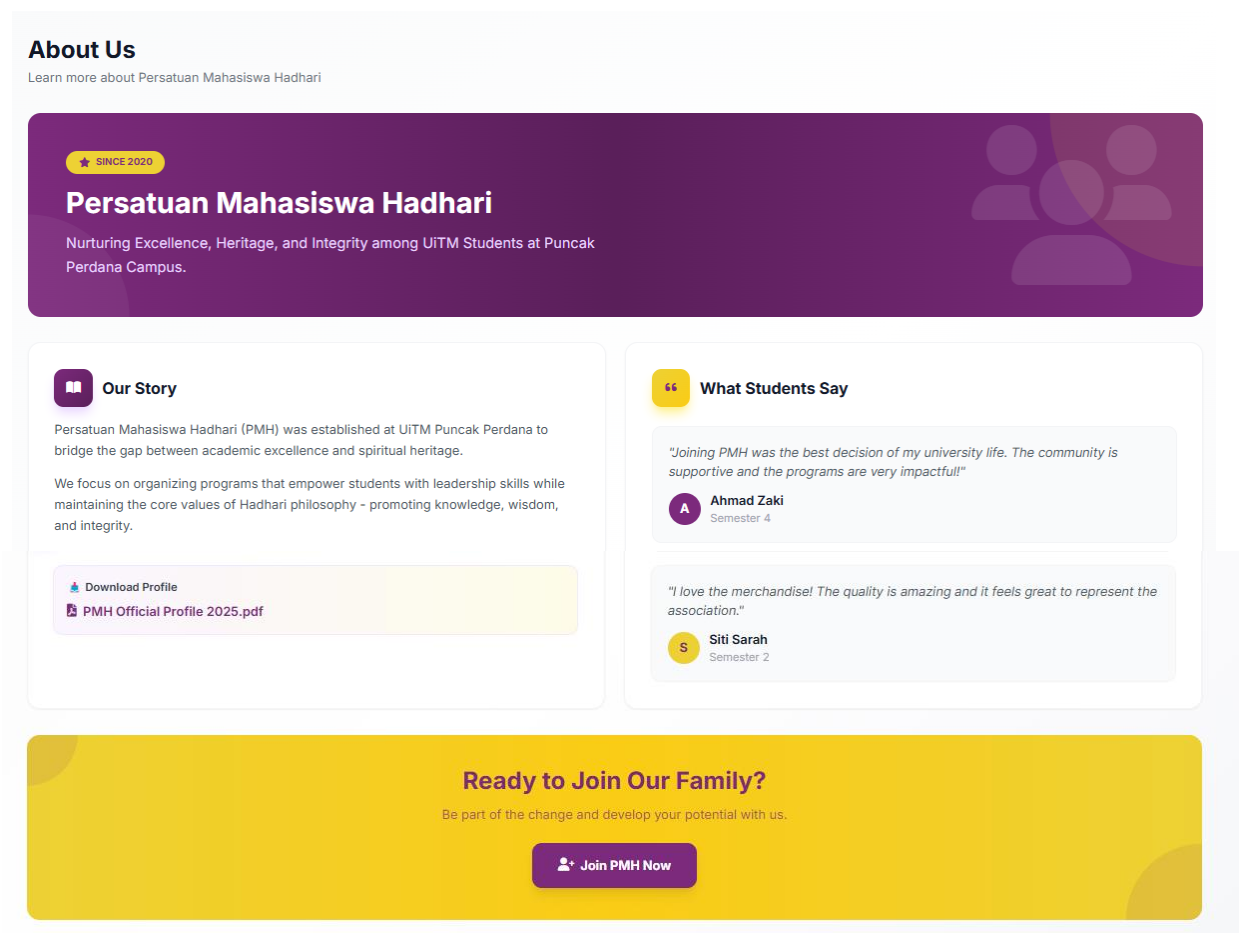


Figure 6.7.1: About Us page.

6.7.2 CONTACT US PAGE

Contact information and possibly a contact form including:

- Physical address
- Phone number
- Email address
- Social media links
- Office hours

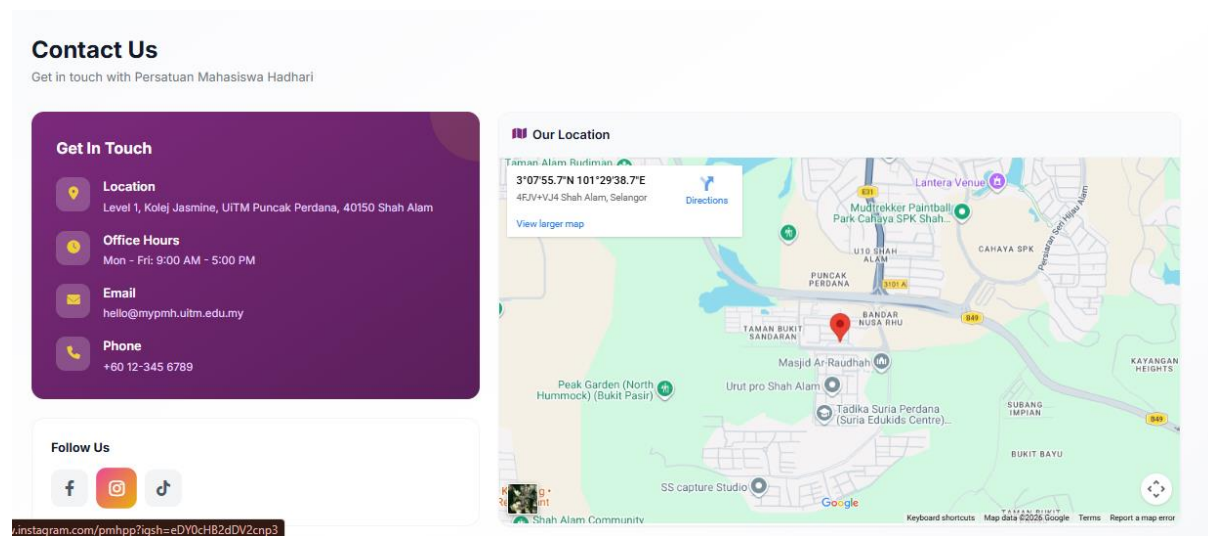


Figure 6.7.2: Contact Us page.

7.0 WORKFLOW OF FORM (ILLUSTRATION OF THE CRUD CYCLE)

This section illustrates the CRUD (Create, Read, Update, Delete) workflow using the Membership Applications module as the primary example.

7.1 CRUD WORKFLOW DIAGRAM

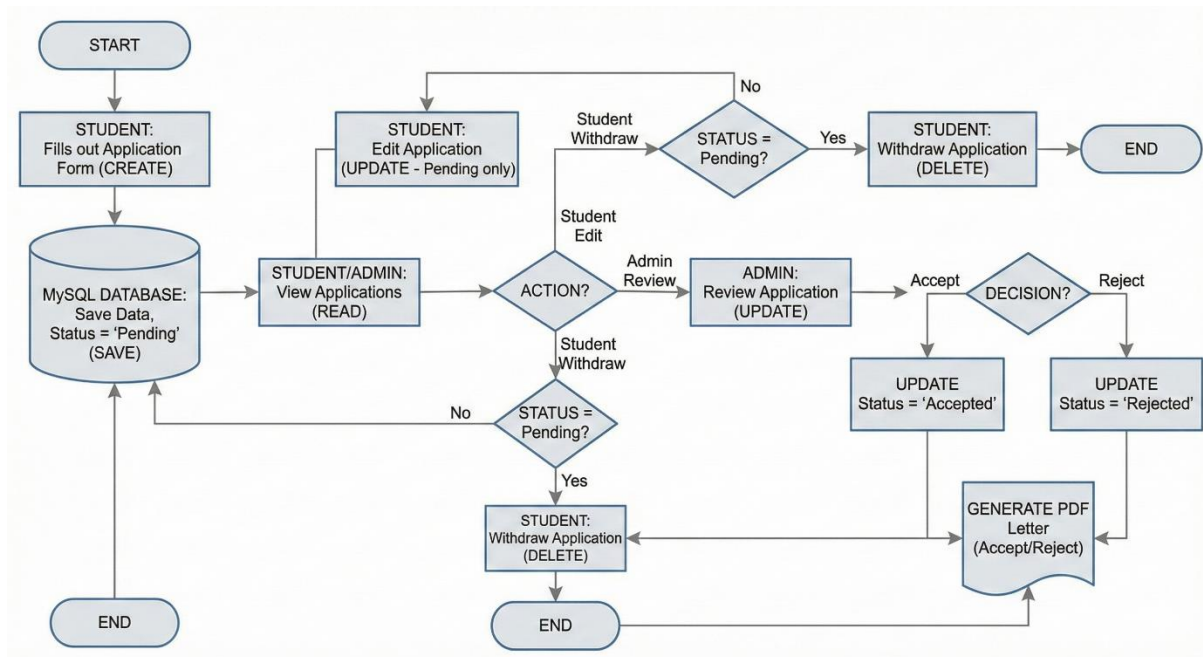


Figure 7.1: Workflow Diagram of membership application module

7.2 DETAILED CRUD PROCESS DESCRIPTION

CREATE - Application Submission

Step: STUDENT: Fills out Application Form (CREATE)

- Action: Student navigates to the application page and completes the required form fields.
- System: Data is transmitted to the server.

SAVE - Database Storage

Step: MySQL DATABASE: Save Data, Status = 'Pending' (SAVE)

- Action: System saves the new record into the applications table.
- Default: The status column is automatically set to 'pending'.

READ - Viewing Data

Step: STUDENT/ADMIN: View Applications (READ)

- Action: Both students and admins can view the application data.
- Logic: This serves as the central hub where users decide their next action.

UPDATE (Student) - Editing

Step: STUDENT: Edit Application

- Condition: Only possible if the application status is still 'Pending'.
- Action: Student updates details, and changes are saved back to the database.

DELETE (Student) - Withdrawing

Step: STUDENT: Withdraw Application (DELETE)

- Decision: STATUS = Pending?
- Logic: If Yes, the student acts to "Withdraw" the application.
- Result: The record is removed or marked as deleted, and the process ends.
- Fail Case: If status is NOT pending (i.e., already accepted/rejected), withdrawal is not allowed.

UPDATE (Admin) - Review Process

Step: ADMIN: Review Application (UPDATE)

- Trigger: Admin selects "Admin Review" path from the View stage.
- Decision: DECISION? (Accept or Reject).
- Path A (Accept): System updates status to 'accepted'.
- Path B (Reject): System updates status to 'rejected'.

GENERATE - Documentation

Step: GENERATE PDF Letter

- Trigger: Automatically occurs after the status update (Accept or Reject).
- Output: A PDF file is created for the student to download.
- End: The administrative process concludes here.

7.3 CRUD OPERATIONS FOR OTHER MODULES

Programs Module (Admin CRUD)

Operation	Action	Result
CREATE	Admin fills program form	New program added to database
READ	All users view program list	Program details displayed
UPDATE	Admin edits program	Program information updated
DELETE	Admin deletes program	Program removed after confirmation

Orders Module (Student CRUD)

Operation	Action	Result
CREATE	Student submits pre-order	Order saved with 'pending' status
READ	Student views purchase history	Order list displayed
UPDATE	N/A (Orders cannot be modified)	-
DELETE	Student cancels order	Order removed from system

8.0 TEAM ROLES & CONTRIBUTIONS

No.	Name	Matric No.	Role	Contribution
1	MUHAMMAD ZAHID HANAFI BIN MOHAMAD AZIAN	2025127713	Project Leader	Project coordination, system architecture design, User Authentication module (Login, Register, Forgot Password), Database schema design, Quality assurance and testing
2	NUR 'AAINI NABILAH BINTI MOHAMAD NASIR	2025119807	Frontend Developer	UI/UX design, Responsive layout implementation, Template design using Tailwind CSS, Header and navigation components, Footer design, Flash messages and alerts styling
3	NURUL AIMI UMAIROH BINTI ZULKARIA	2025162077	Backend Developer	Programs Module development (CRUD operations), Calendar implementation with Flatpickr, Applications Module (Student side), PDF letter generation for applications
4	NUR AISYAH BINTI ROSLI	2025180601	Backend Developer	Merchandise/Products Module development, Orders Module development, Admin applications management, PDF receipt generation, Role-based access control
5	MUHAMMAD NOOR AZHARI BIN SHARIL	2025305961	Documentation & Testing	Report writing and documentation, User manual creation, System testing and bug reporting, Screenshots and visual assets, Contact and About pages content

9.0 CONTACT INFORMATION (SUPPORT)

9.1 ORGANIZATION CONTACT

Persatuan Mahasiswa Hadhari (PMH)

UiTM Kampus Puncak Perdana

Contact Type	Details
Address	Level 1, Kolej Jasmine, UiTM Puncak Perdana, 40150 Shah Alam, Selangor
Phone	+60 12-345 6789
Email	hello@mypmh.uitm.edu.my
Operating Hours	Monday - Friday, 9:00 AM - 5:00 PM

9.2 SOCIAL MEDIA

Platform	Link/Handle
Facebook	facebook.com/pmh.perdana
Instagram	@pmhpp
TikTok	@pmhppuitm

9.3 TECHNICAL SUPPORT

For technical issues related to the MyPMH system, please contact:

Support Type	Contact
System Administrator	2025127713@student.uitm.edu.my
Technical Lead	2025119807@student.uitm.edu.my
Bug Reports	2025162077@student.uitm.edu.my 2025180601@student.uitm.edu.my

9.4 ACADEMIC CONTACT

Course Lecturer:

- Name: Dr. Muhammad Asyraf bin Wahi Anuar
- Email: muham6853@uitm.edu.my

10.0 CONCLUSION & REFLECTION

10.1 PROJECT SUMMARY

The MyPMH system has been successfully developed to meet the operational needs of Persatuan Mahasiswa Hadhari at UiTM Puncak Perdana. The system provides a centralized digital platform that streamlines three main organizational functions:

1. Membership Management - Students can easily apply for PMH membership online, select interview slots, and track their application status. Administrators can efficiently review, accept, or reject applications while the system automatically generates official PDF letters.
2. Program Management - All PMH programs and events are displayed in an interactive calendar format, making it easy for students to stay informed about upcoming activities. The integration with Google Forms allows seamless event registration.
3. Merchandise Pre-ordering - Students can browse and pre-order official PMH merchandise through the online store. The order management system helps administrators track and fulfill orders efficiently.

The implementation of role-based access control ensures that students and administrators see only the features relevant to their roles, maintaining security and simplicity. The responsive design ensures accessibility across desktop computers, tablets, and mobile phones.

10.2 TECHNICAL ACHIEVEMENTS

Throughout this project, our team successfully implemented:

- MVC Architecture using CakePHP 4.5 framework for clean code organization
- Authentication System with secure password hashing and session management
- Role-Based Access Control differentiating student and admin capabilities
- PDF Generation using DomPDF library for letters and receipts
- Interactive Calendar using Flatpickr for program scheduling
- Responsive Design using Tailwind CSS for mobile compatibility
- CRUD Operations for all major data entities
- Database Relationships with proper foreign key constraints

10.3 CHALLENGES FACED AND SOLUTIONS

Challenge	Solution
Role-based visibility - Showing different menus for different users	Implemented check for user role in templates using <code>\$identity->get('role')</code>
PDF Generation - Creating formatted letters	Used DomPDF library with custom HTML templates
Calendar Integration - Highlighting dates with programs	Used Flatpickr's <code>onDayCreate</code> callback with JavaScript
Form Validation - Ensuring data integrity	Implemented CakePHP's validation rules in Table classes
Interview Slot Management - Preventing double booking	Added <code>is_booked</code> flag and validation in controller

10.4 FUTURE IMPROVEMENTS

To further enhance the MyPMH system, we recommend the following improvements for future development:

1. **Email Notifications** - Send automatic emails when application status changes
2. **Payment Integration** - Add online payment for merchandise orders
3. **Event Attendance Tracking** - QR code check-in for programs
4. **Mobile Application** - Native Android/iOS app for better mobile experience
5. **Analytics Dashboard** - Detailed statistics and reporting for administrators
6. **Document Upload** - Allow students to upload supporting documents with applications
7. **Multi-language Support** - Add Bahasa Malaysia language option
8. **E-Merit Integration** - Connect with UiTM's e-Merit system

11.0 REFERENCE

Anais. (2024, October 1). *Understanding relationships in relational databases*. Grist.
<https://www.getgrist.com/blog/understanding-relationships-in-relational-databases/>

Chmln. (n.d.). *Flatpickr*. Introduction. <https://flatpickr.js.org/>

Intro to DOMPdf - light and simple PHP library to generate PDF documents. DEV
Community. (2024, April 5). <https://dev.to/prahladyeri/intro-to-dompdf-lightest-and-simplest-php-library-to-generate-pdf-documents-218n>

Kosinski, M. (2026, January 26). *What is authentication?*. IBM.
<https://www.ibm.com/think/topics/authentication>

Rapidly build modern websites without ever leaving your HTML. Tailwind CSS. (n.d.).
<https://tailwindcss.com/>

What is crud? explained. Codecademy. (n.d.). <https://www.codecademy.com/article/what-is-crud-explained>