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**FACULTY OF INFORMATION SCIENCE**  
**COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS**  
**Bachelor Of Information Science (Hons.) Information Systems Management**

**ADVANCED WEB DESIGN DEVELOPMENT AND CONTENT MANAGEMENT (IMS566)**

**UITM PUNCAK PERDANA LOST & FOUND SYSTEM**

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## **1.0 INTRODUCTION**

In this project, the design and development of a full-fledged web-based Lost and Find Management System in the UiTM Puncak Perdana campus is involved. The system converts the old system, which is paper-based, of reporting and reclaiming lost items into an efficient, secure and easy to use online platform. The main aim is to simplify the process of work of students, staff, and administrative staff due to the provision of a centralized platform on which the users can submit reports about lost items, enlist indexable found objects, seek matches and process claims using electronic tools. The application is developed based on the CakePHP framework and MySQL database, and it supports the full CRUD (Create, Read, Update, Delete) operations, user authentication, responsive design, and data export. By applying the principles of web development and database management to address a real problem in the administrative field, along with the focus on teamwork and systematic documentation and adherence to software engineering best practices, this project satisfies the academic requirements of the IMS566 course.

## **2.0 GITHUB REPOSITORY LINK**

The entire code of this Lost and Found System is available in a publicly available GitHub repository. This is a repository that comprises all application files including CakePHP framework setup, database schema, controllers, views, models, assets and documentation. The codebase is structured, well-documented and best practices of version control, which enables transparency and collaborative development and can be deployed with ease.

- <https://github.com/yasinazman/lfsuitmpp.git>

### 3.0 ENTITY-RELATIONSHIP DIAGRAM (ERD)

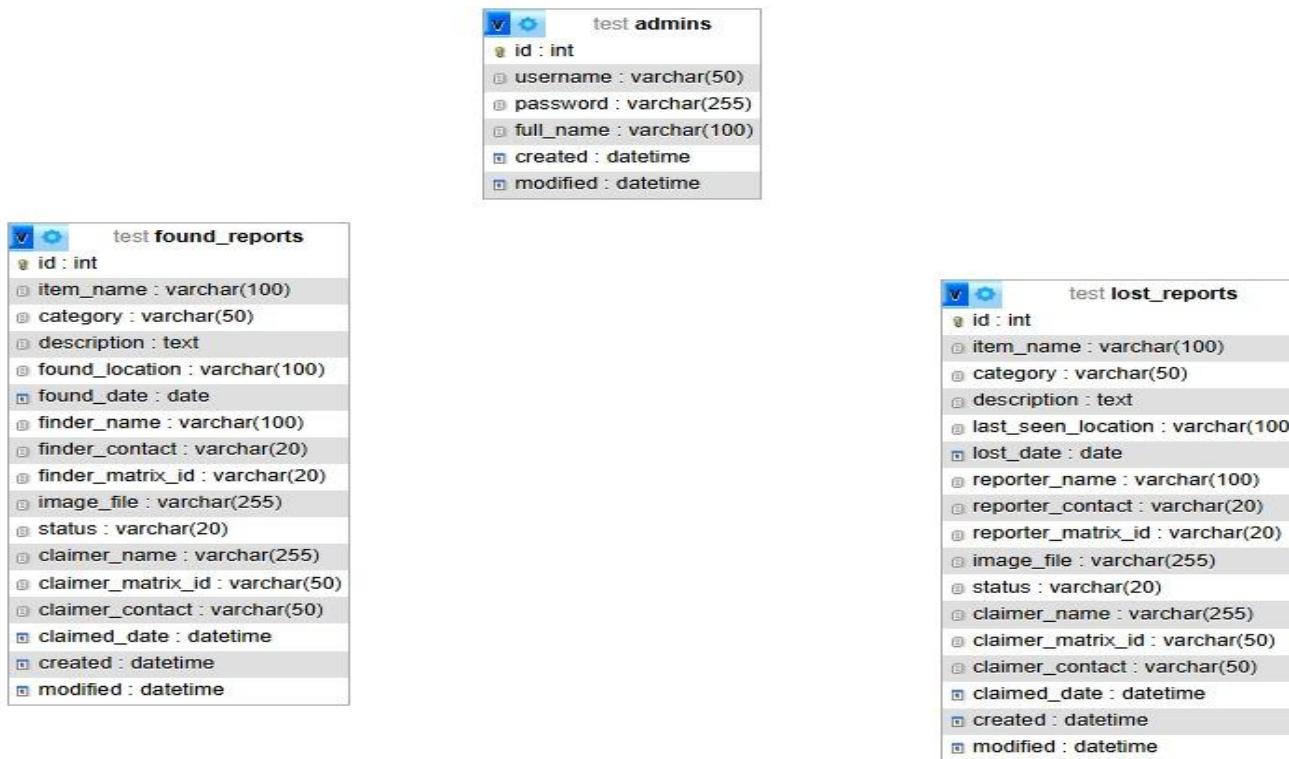


Figure 1: ERD of Lost & Found System Management

## 4.0 SYSTEM REQUIREMENTS

### Software:

- **Operating System:** Windows 10/11, macOS 10.14+, or Linux
- **Web Server:** Apache 2.4+
- **PHP:** Version 8.1.0 or higher
- **Database:** MySQL 8.0.30+ or MariaDB 10.6+
- **Composer:** Version 2.5+
- **Git:** Version 2.35+

### Version Compatibility:

*Table 1: Version Compatibility*

Component	Minimum version	Recommended version
PHP	8.1.0	8.4.16
MySQL	8.0.30	8.1.0
CakePHP	5.2.0	5.2.5
Apache	2.4.41	2.4.58
Composer	2.5.0	2.7.0

**Browser Requirement:**

- **Primary:** Google Chrome
- **Supported:** Firefox, Microsoft Edge, Safari
- **JavaScript:** Must be enabled
- **Cookies:** Must be enabled for session management

**Device Compatibility:**

- Desktop/Laptop
- Tablet
- Smartphone

## 5.0 USER INTERFACE OVERVIEW

### Structure Layout:

#### A. Public User Interface:

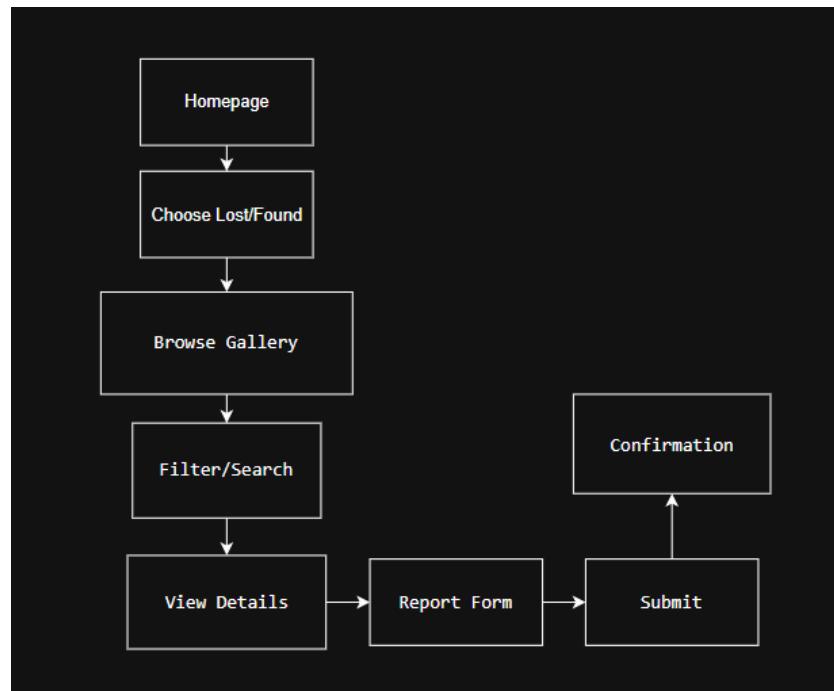
- **Header:** Displays system title "UITM PUNCAK PERDANA Lost & Found" with branding
- **Main Navigation:** Clear option selection between "I Lost Something" and "I Found Something"
- **Content Area:** Dynamic display of galleries, forms, or search results
- **Footer:** Copyright information and system details

#### B. Admin Interface:

- **Sidebar Navigation:** Persistent left-side menu with:
  - Dashboard overview
  - Lost Items management
  - Found Items management
  - Claimed Items history
  - Report Analysis (Monthly/Weekly stats)
  - Logout option
- **Main Dashboard:** Central panel showing statistics, charts, and pending actions
- **Header:** Welcome message with admin name and date

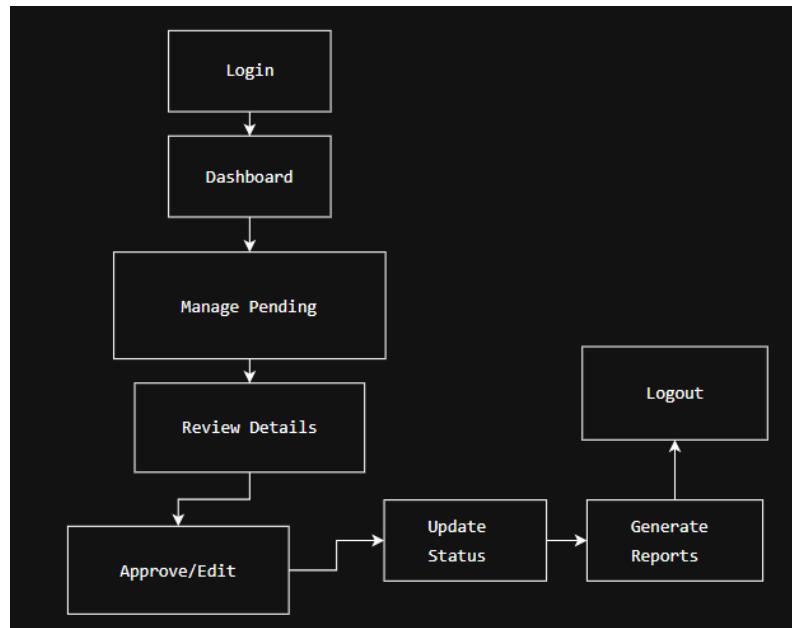
## **Navigation Flow:**

### **A. User Navigation**



*Figure 2 :User Journey*

### **B. Admin Navigation**



*Figure 3: Admin Journey*

## 6.0 FEATURES & FUNCTIONALITIES

### 1. CORE FEATURES (PROJECT REQUIREMENTS)

#### A. Authentication System:

- **Admin Login/Logout:** Secure authentication using CakePHP's Authentication plugin
- **Password Security:** Hashed passwords (bcrypt) as shown in database dump
- **Session Management:** Protected admin routes and automatic session timeout
- **Public Access:** No login required for reporting/viewing items

#### B. Complete CRUD Operations:

- **Create:** Report lost/found items through user-friendly forms
- **Read:** Browse galleries, view detailed item information
- **Update:** Admin can edit item details and update status
- **Delete:** Remove resolved or duplicate reports (admin-only)

#### C. Search & Filter System:

- **Category Filtering:** Electronics, Personal, Wallet/Bag, Documents, Others
- **Location Filtering:** Library, Cafeteria, Sports Complex, etc.
- **Text Search:** Search by item name or description
- **Status Filtering:** Filter by Pending, Found, Lost, Claimed status
- **Date Range:** Filter by report date

#### D. Data Export Functionality:

- **PDF Generation:** Export item reports using DomPDF library

- **Complete Details:** Includes item info, photos, contact details
- **Timestamped:** Automatic generation date/time on PDFs
- **Professional Format:** Institutional branding and layout

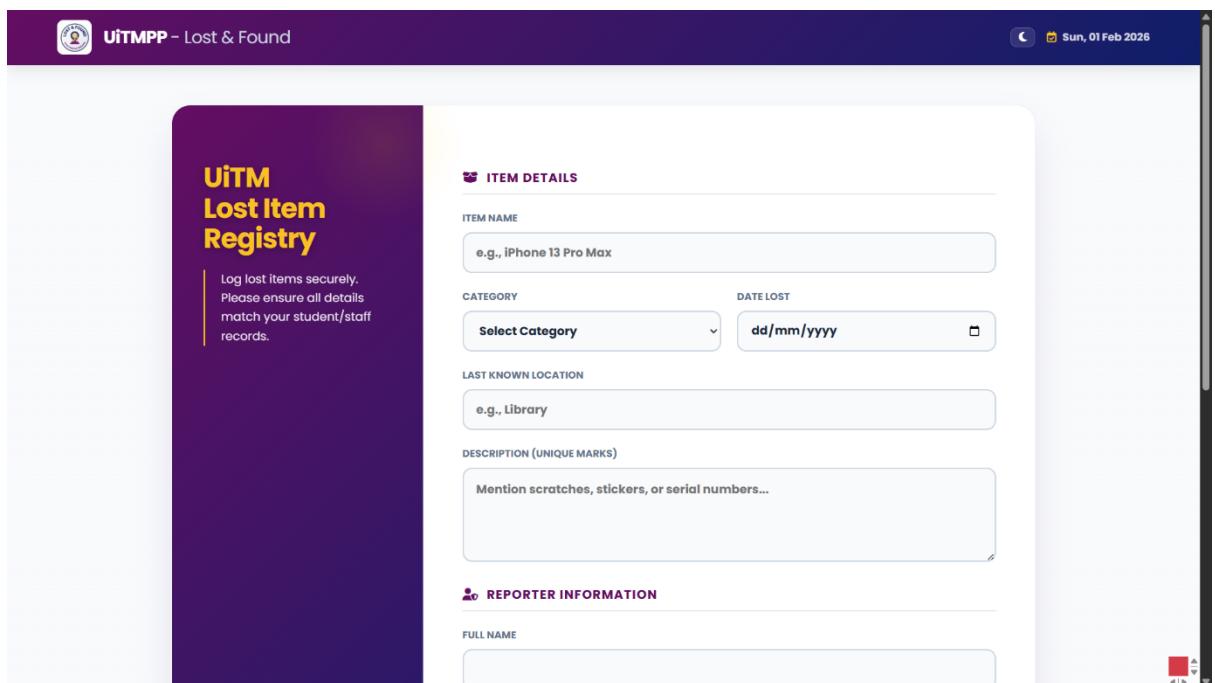
#### E. Responsive Design:

- **Mobile-First Approach:** Works on smartphones, tablets, desktops
- **CSS Framework:** Bootstrap/Tailwind implementation
- **Adaptive Layout:** Different views for different screen sizes
- **Touch Optimization:** Mobile-friendly buttons and forms

## 2. PUBLIC USER FUNCTIONALITIES

#### A. Lost Item Reporting:

- **Form Interface:**



The screenshot shows a web browser displaying the 'UiTM Lost Item Registry' page. The header features the 'UiTMPP - Lost & Found' logo and the date 'Sun, 01 Feb 2026'. The main content area has a purple sidebar on the left with the title 'UiTM Lost Item Registry' and a note: 'Log lost items securely. Please ensure all details match your student/staff records.' The main form is titled 'ITEM DETAILS' and includes fields for 'ITEM NAME' (e.g., iPhone 13 Pro Max), 'CATEGORY' (Select Category dropdown), 'DATE LOST' (dd/mm/yyyy input), 'LAST KNOWN LOCATION' (e.g., Library input), and 'DESCRIPTION (UNIQUE MARKS)' (Mention scratches, stickers, or serial numbers... text area). Below this is a section titled 'REPORTER INFORMATION' with a 'FULL NAME' field.

Figure 4: Report lost item form

- **Required Fields:** Item name, category, last seen location, date
- **Optional Details:** Description, unique marks, serial numbers
- **Photo Upload:** Evidence photo attachment
- **Reporter Info:** Name, Matrix ID, contact number
- **CAPTCHA Protection:** Security verification on submission
- **Confirmation:** Success message after submission

#### **B. Found Item Reporting:**

- **Similar Structure:** Parallel to lost item reporting
- **Finder Information:** Name, ID, contact details
- **Found Details:** Location, date, description
- **Image Upload:** Photo of found item
- **Security:** CAPTCHA-protected submission

## C. Item Galleries:

- **Lost Items Gallery:**

The screenshot shows the 'Lost Items Gallery' section of the application. At the top, there is a search bar with the placeholder 'Search by item name...'. Below it are two filter dropdowns: 'CATEGORY' set to 'All Categories' and 'LOCATION' set to 'All Locations'. A yellow button labeled '+ SUBMIT LOST REPORT' is located in the top right corner. The main area displays four items with their respective details:

- Bottle**: Personal item, last seen in Court Basket on 1/27/26. [View Details →](#)
- Iphone 17 Pro**: Electronics item, last seen in Dewan Kuliah on 1/23/26. [View Details →](#)
- Topi**: Personal item, last seen in Library on 1/28/26. [View Details →](#)
- Wallet**: Wallet/Bag item, last seen in Cafeteria on 1/9/26. [View Details →](#)

Figure 5: Dashboard

This screenshot shows a detailed view of a lost item, specifically a 'Bottle'. The top part of the screen is identical to Figure 5, featuring the same navigation and search interface.

The detailed view for the 'Bottle' includes the following information:

- Type**: PERSONAL
- Name**: Bottle
- Last Seen Location**: Court Basket
- Last Seen Date**: 1/27/26
- View Details** button

Below this, there is a partial view of another item, a white headphones case, with a 'LOST' button visible.

Figure 6: Detail item report

- **Found Items Gallery:**

The screenshot shows the 'Found Items Gallery' section of the website. At the top, there's a green header bar with the title 'Found Items Gallery' and a subtext 'List of items found around campus.' Below the header is a search bar with the placeholder 'Search by item name...'. Underneath the search bar are two filter sections: 'CATEGORY' (set to 'All Categories') and 'LOCATION' (set to 'All Locations'). To the right of these filters is a green 'Apply Filters' button. Below the filters, there are three cards, each featuring a small image of a found item, its category, and its name. The first card shows a car key labeled 'PERSONAL Kunci Kereta'. The second card shows a black bottle labeled 'PERSONAL Bottle'. The third card shows a red keychain labeled 'ELECTRONICS Keys'. Each card has a small 'FOUND' badge in the top right corner.

*Figure 7: Found item dashboard*

- **Card Display:** Visual presentation with images
- **Quick View:** Essential details at a glance
- **Detailed View:** Click through for complete information
- **Pagination:** Navigation for multiple pages of results

## D. Search & Discovery:

- Advanced Filters:

The screenshot shows the 'Found Items Gallery' interface. At the top, there is a purple header bar with the logo 'UiTMPP - Lost & Found' and the date 'Sun, 01 Feb 2026'. Below the header is a green navigation bar with the title 'Found Items Gallery' and a button 'I FOUND SOMETHING'. The main area has a light blue background. On the left, there is a search bar with placeholder text 'Search by item name...'. Below it are two dropdown menus: 'CATEGORY' and 'LOCATION', both set to 'All Categories' and 'All Locations' respectively. To the right of these dropdowns are buttons for 'Apply Filters' and a refresh icon. In the center, there are three cards showing found items: a car key labeled 'Kunci Kereta' under 'PERSONAL', a bottle labeled 'Bottle' under 'PERSONAL', and a set of keys labeled 'Keys' under 'ELECTRONICS'. Each card has a small thumbnail image and a 'FOUND' badge.

Figure 8: Search by category feature

This screenshot is similar to Figure 8 but focuses on the 'LOCATION' filter. The 'LOCATION' dropdown menu is open, showing a list of locations: All Locations, Library (PTAR), Dewan Kuliah, Makmal Komputer, Bilik Kuliah, Lab Info tool, Cafeteria, Sports Complex, Parking Area, and Other. The 'All Locations' option is selected. The rest of the interface, including the search bar, category dropdown, and item cards, is identical to Figure 8.

Figure 9: Search by location feature

- **Real-time Results:** Dynamic filtering without page reload
- **Combined Filters:** Multiple filter criteria simultaneously
- **Clear Navigation:** Easy reset and back options

## E. Item Details View:

- **Comprehensive Display:**

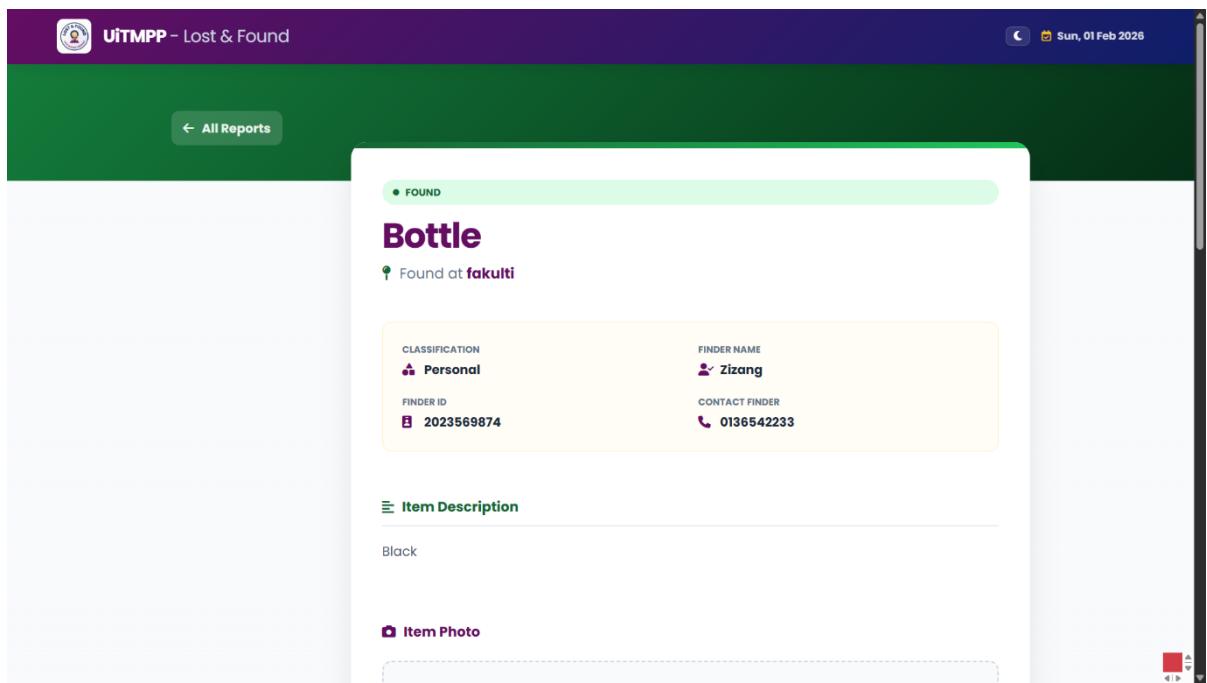


Figure 10: View item report

- **All Information:** Complete item details and photos
- **Contact Protection:** Limited contact info for privacy
- **Status Indication:** Clear visual status indicators
- **Related Items:** Suggestions for similar items

## A. Dashboard Overview:

- **Welcome Interface:**

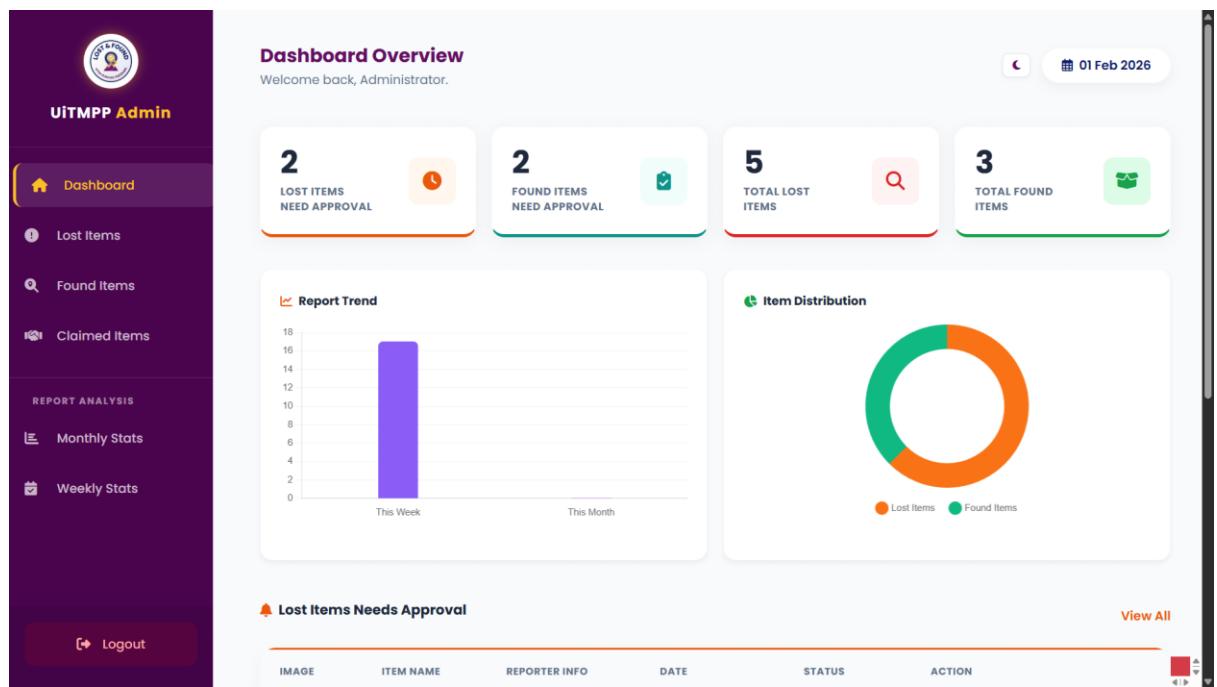


Figure 11: Admin dashboard

- **Quick Statistics:** Pending approvals, total counts
- **Visual Analytics:** Charts and graphs for trends
- **Dark Mode:** Optional dark theme



Figure 12: Admin dashboard in Dark Mode

- **Recent Activity:** Latest reports and claims

## B. Lost Items Management:

- Admin View:

ITEM DETAILS	REPORTER INFO	DATE & LOCATION	STATUS	ACTION
Earbud Personal	Adam 2021470952	library 31 Jan 2026	PENDING	[Edit, Approve, Decline, Delete]
Bababa Others	zzzzz 0000122233	Bababa 31 Jan 2026	PENDING	[Edit, Approve, Decline, Delete]

ITEM DETAILS	REPORTER INFO	DATE & LOCATION	STATUS	ACTION
Bottle Personal	LeBron 2023124578	Court Basket 31 Jan 2026	LOST	[Edit, Approve, Decline, Delete]
Iphone 17 Pro	Siti Nurhaliza	Dewan Kuliah	LOST	[Edit, Approve, Decline, Delete]

Figure 13: Lost item management page

- **Pending Approvals:** List awaiting admin action
- **Published Items:** Approved items visible to public
- **Action Controls:** Edit, delete, change status
- **Bulk Operations:** Multiple item processing

## C. Found Items Management:

- **Parallel Interface:**

The screenshot displays the 'Found Items Management' page from the 'UITMPP Admin' application. On the left, a sidebar menu lists various administrative functions: Dashboard, Lost Items, Found Items (selected), Claimed Items, Report Analysis, Monthly Stats, and Weekly Stats. A 'Logout' button is at the bottom. The main content area has a header 'Found Items Management' and a sub-header 'Search and manage reports for items found on campus.' It shows the date '01 Feb 2026'. Below this is a search bar with placeholder text 'Type to search Found Items instantly...'. The page is divided into two sections: 'Pending Approvals' and 'Published Found Items', each with a table.

IMAGE	ITEM DETAILS	FINDER INFO	DATE & LOCATION	STATUS	ACTION
	<b>hye</b> Others	<b>bye</b> 0102030506	31 Jan 2026	PENDING	
	<b>The Batu</b> Others	<b>Leo</b> 20000000	Fakulti	PENDING	

IMAGE	ITEM DETAILS	FINDER INFO	DATE & LOCATION	STATUS	ACTION
	<b>Kunci Kereta</b> Personal	<b>Feroz</b> 2025748933	Fakulti	FOUND	
	<b>Bottle</b> Personal	<b>Zizang</b> 2023KA0074	fakulti	FOUND	

Figure 14: Found item management page

- **Verification Queue:** New found items for review
- **Status Updates:** Change from Pending to Found/Claimed
- **Claim Management:** Process item claims

## D. Claimed Items History:

- **Complete Record:**

The screenshot shows the 'Claimed Items History' page from the 'UITMPP Admin' application. On the left is a dark sidebar with various navigation options: Dashboard, Lost Items, Found Items, Claimed Items (which is highlighted), Report Analysis, Monthly Stats, and Weekly Stats. At the bottom of the sidebar is a 'Logout' button. The main content area has a header 'Claimed Items History' with a sub-header 'Separated list of claimed Lost reports and claimed Found items.' Below this is a search bar with placeholder text 'Type to search history instantly...'. There are two main sections: 'Claimed Lost Reports' and 'Claimed Found Items'. Each section has a table with columns: IMAGE, ITEM DETAILS, CLAIMED BY, DATE CLAIMED, STATUS, and ACTION.

IMAGE	ITEM DETAILS	CLAIMED BY	DATE CLAIMED	STATUS	ACTION
	<b>Google Pixel 10</b> Reporter: Amiza 2025187498 0126589331	<b>Yasin</b> 2025187498 0126589331	31 Jan 2026	CLAIMED	
	<b>Card</b> Reporter: Fattah amer 2025887746 0178549632	<b>Azrul</b> 2025887746 0178549632	31 Jan 2026	CLAIMED	
	<b>Spec</b> Reporter: Zul Arpin 2024659911 01133225486	<b>Kamarul</b> 2024659911 01133225486	31 Jan 2026	CLAIMED	

IMAGE	ITEM DETAILS	CLAIMED BY	DATE CLAIMED	STATUS	ACTION
	<b>Cap</b> Finder: Yuji Nishida 2025321025 0108823864	<b>Meri</b> 2025321025 0108823864	31 Jan 2026	CLAIMED	

Figure 15: Claim item history page

- **Transaction Log:** All successful claims
- **Separate Sections:** Lost vs Found claims
- **Claimer Details:** Who claimed what and when
- **Audit Trail:** Complete history for reference

## E. Editing & Updates:

- **Edit Interface:**

The screenshot shows the 'UITMPP Admin' application interface. On the left is a dark sidebar with a logo at the top, followed by navigation links: 'Dashboard', 'Lost Items' (selected), 'Found Items', 'Claimed Items', 'REPORT ANALYSIS', 'Monthly Stats', and 'Weekly Stats'. At the bottom of the sidebar is a 'Logout' button. The main content area is titled 'EDITING LOST ITEM' and shows 'Current Status: PENDING'. It contains sections for 'Item Information' (Item Name: Earbud, Category: Electronics, Last Seen Location: library, Description: Brown) and 'Reporter Details' (Name: Adam, Matrix ID: 2021478952, Contact Number: 0145698745). A large blue 'Save Changes' button is at the bottom.

Figure 16: edit report page

- **Full Modification:** All fields editable
- **Status Management:** Change item status
- **Claim Processing:** Add claimant information
- **Save Controls:** Confirm/cancel changes

## 4. REPORTING & ANALYTICS

### A. Weekly Statistics:

- **7-Day Overview:**

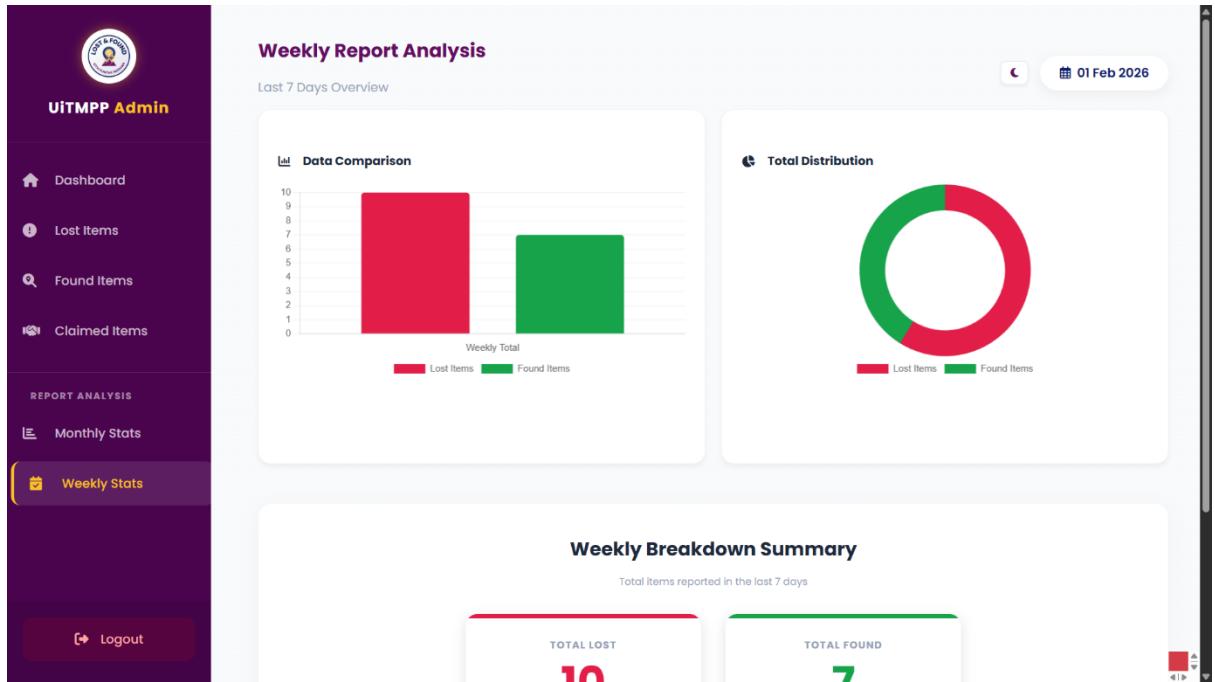


Figure 17: Weekly report analysis

- **Trend Analysis:** Lost vs Found comparison
- **Visual Charts:** Graphical representation
- **Summary Data:** Quick overview of activity

## B. Monthly Statistics:

- **Yearly View:**

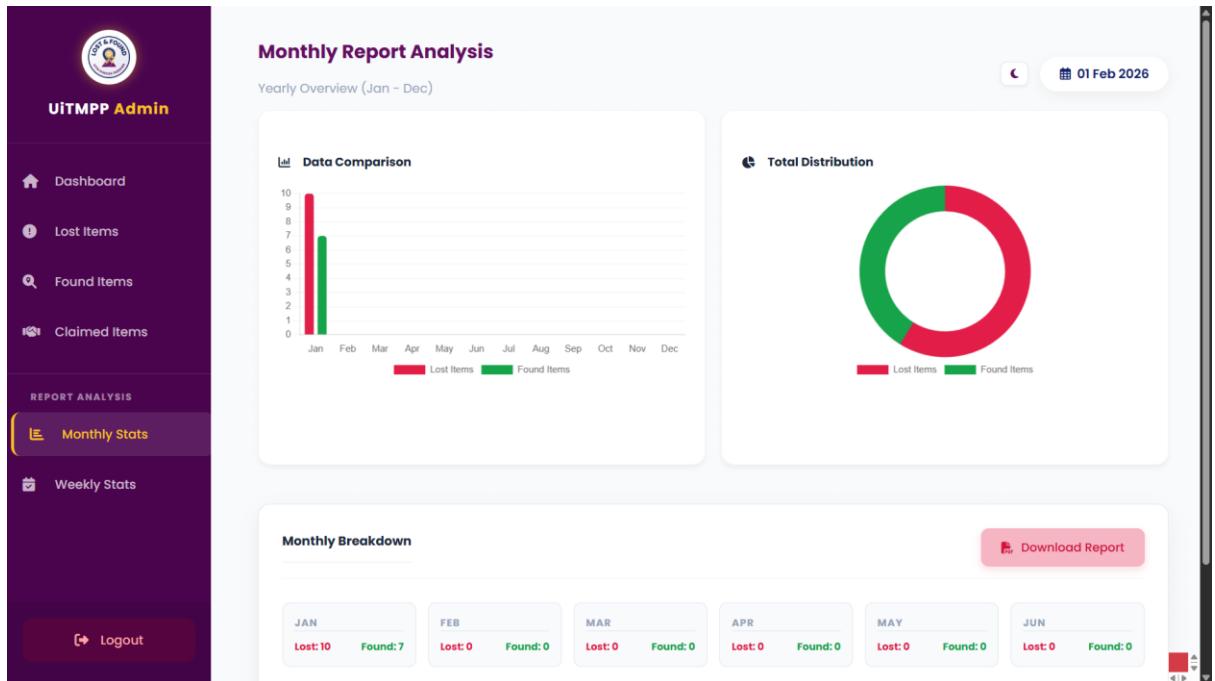


Figure 18: Monthly report analysis

- **Monthly Breakdown:** January through December
- **Comparative Analysis:** Side-by-side monthly comparison
- **Download Option:** Export complete monthly report
- **Pie Charts:** Visual distribution analysis

## C. PDF Report Generation:

- **Professional Output:**

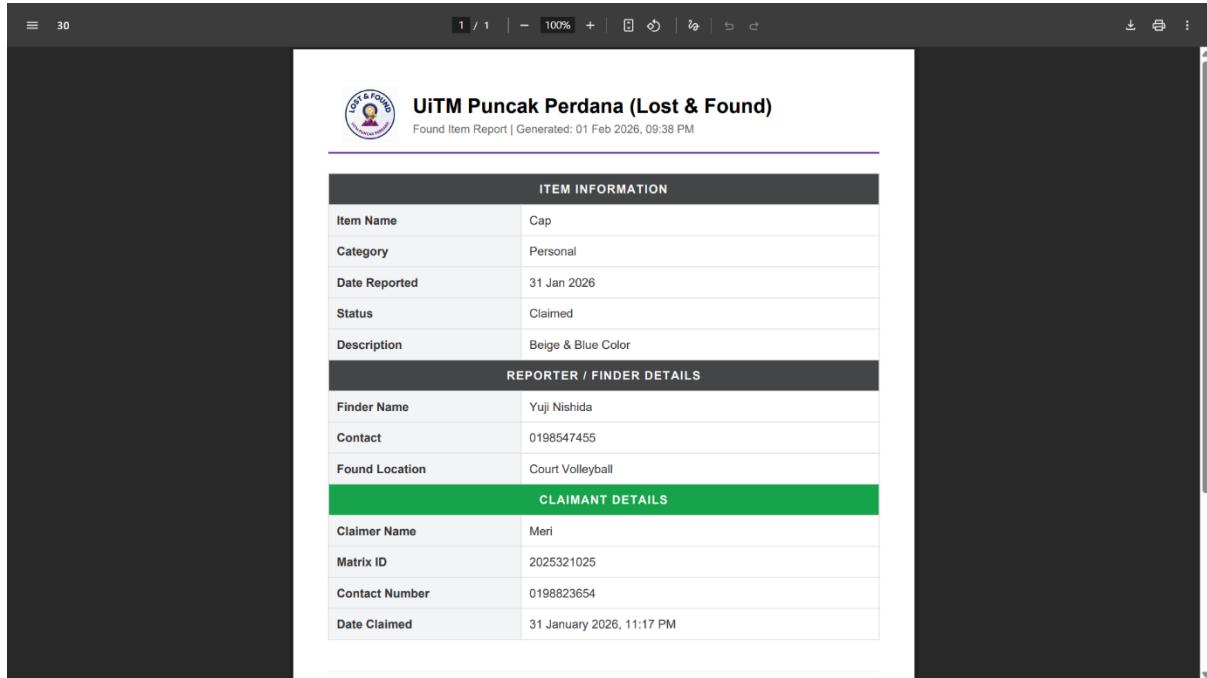


Figure 19: PDF report generate

- **Complete Details:** All relevant information included
- **Institutional Format:** UITM branding and layout
- **Timestamped:** Automatic date/time stamp
- **Printable:** Optimized for printing

## 5. ADVANCED FEATURES

### A. Image Management:

- **Upload System:** File upload with preview
- **Storage:** Local or server-based storage
- **Format Support:** JPG, PNG, GIF formats
- **Size Optimization:** Automatic resizing if needed
- **Thumbnail Generation:** For gallery views

### B. Security Features:

- **Form Protection:** CAPTCHA on public forms
- **Input Validation:** Server-side and client-side validation
- **SQL Injection Prevention:** Prepared statements
- **XSS Protection:** Output encoding
- **Session Security:** Secure session handling

### C. User Experience Enhancements:

- **Real-time Updates:** Status changes visible immediately
- **Email Notifications:** Optional notification system
- **Auto-suggest:** Category/location suggestions
- **Keyboard Shortcuts:** Admin panel efficiency
- **Breadcrumb Navigation:** Path tracking

#### **D. Administrative Tools:**

- **Bulk Actions:** Process multiple items simultaneously
- **Data Import/Export:** CSV import/export capability
- **User Management:** Admin account management
- **System Logs:** Activity tracking and audit trails
- **Backup Options:** Database backup functionality

## 7.0 WORKFLOW OF FORM

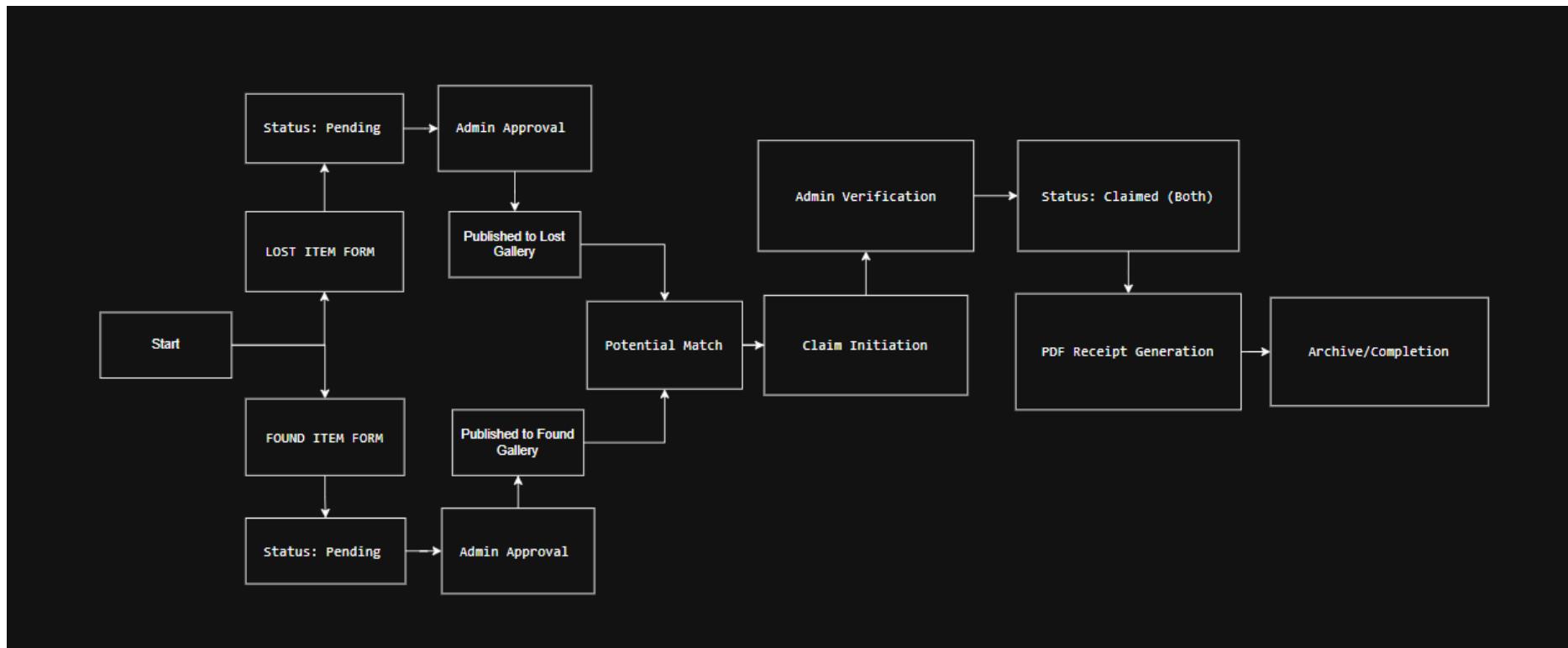


Figure 20: CRUD Cycle Diagram

## **CRUD Operation:**

- **Create:** Form submissions (both paths)
- **Read:** Gallery publications
- **Update:** Status changes, claim processing
- **Delete:** Archive/completion phase

## **8.0 TEAM ROLES & CONTRIBUTIONS**

*Table 2: Team Roles & Contributions*

<b>Member</b>	<b>Role</b>	<b>Contribution</b>
Yasin	Database Lead	<ul style="list-style-type: none"><li>• Database design</li><li>• Combine all works</li><li>• Configure database connections in CakePHP</li><li>• Database schema documentations</li><li>• Manage CAPTCHA configuration</li><li>• Check all section</li><li>• Manage GitHub Repositories</li></ul>
Adib	Admin System Manager	<ul style="list-style-type: none"><li>• Developed complete admin authentication system</li><li>• Create admin feature such as dashboard</li><li>• Build PDF export functionality</li></ul>
Adi	Lost Items Manager	<ul style="list-style-type: none"><li>• Developed complete lost item reporting system</li><li>• Create lost item gallery with filtering</li></ul>

		<ul style="list-style-type: none"> <li>• Implement lost item search functionality</li> <li>• Build lost item form with validation</li> </ul>
Zuhair	Found Items Manager	<ul style="list-style-type: none"> <li>• Developed complete found item reporting system</li> <li>• Create found item gallery with filtering</li> <li>• Implement found item search functionality</li> <li>• Build found form with validation</li> </ul>
Ryan	Documentation Lead	<ul style="list-style-type: none"> <li>• Prepared complete project documentation</li> <li>• Create user manual with screenshots</li> <li>• Be system Testing</li> </ul>

## **9.0 CONTACT INFORMATION (SUPPORT)**

### **1. Email Support:**

- **General Inquiries:** [yasinazman1001@gmail.com](mailto:yasinazman1001@gmail.com)
- **Technical Issues:** [yasinazman1001@gmail.com](mailto:yasinazman1001@gmail.com)
- **User Support:** [ryaniskandarshah77@gmail.com](mailto:ryaniskandarshah77@gmail.com)

### **2. GitHub Repository:**

- **URL:** <https://github.com/yasinazman/lfsuitmpp.git>
- **Issue Tracker:** For bug reports and feature requests

### **3. Emergency Contact:**

- **Hotline:** [+60 13-224 3221] (Project Lead)
- **Response Time:** Within 2 hours for critical system issues

## 10.0 CONCLUSION & REFLECTION

UITM Puncak Perdana Lost and Found System is a web application that has been successfully developed as a functional and comprehensive one. The main goal of this project has been met: the digitalization of a real-life administrative process and lost-and-found at the campus is transformed into an online platform that will be secure, efficient, and easy to use. All the technical considerations of the IMS566 project requirements were met by creating a system that has sound user authentication, complete CRUD (Create, Read, Update, Delete) functionality, complex search and filtering, generated PDF report export, and a user-friendly interface developed on a modern CSS platform.

Our scholarly understanding of system architecture, database design and web development was used to develop a viable solution using the CakePHP framework and MySQL database. The system automates the whole life cycle of any item lost starting with the initial report and approval by the administrator until the item is listed publicly, claim is made, and finally documented. It is also a good way to bridge the communication barrier between the finders and the owners and thus a traditionally broken, paper-based process is turned into a centralized, transparent, and accessible digital service to the whole campus community.

All project objectives have been met, including:

1. **Digital Transformation:** Successfully converted real-world lost/found forms into an online system
2. **Technical Implementation:** Applied authentication, CRUD operations, search, and data export
3. **UI/UX Design:** Created responsive, user-friendly interfaces using CSS frameworks
4. **Documentation:** Produced comprehensive system documentation and user manual
5. **Team Collaboration:** Demonstrated effective teamwork throughout development

The system stands as a testament to the practical application of theoretical knowledge gained in web design, content management, and system development courses.

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