

# Hostel Management System (HMS) - Admin Dashboard

## Synopsys

The Hostel Management System (HMS) is a modern web-based application designed to streamline and digitize the management of hostel operations for Poornaprajna Institute of Management (PIM). Built for the MCA batch 2024-2026, this system provides an intuitive admin dashboard for managing students, fees, payments, and user accounts, ensuring efficient and secure hostel administration.

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## Project Overview

HMS is a full-featured admin dashboard for hostel management, enabling administrators to:

- Register and manage student records
- Track and record fee payments
- Manage user accounts and access
- Configure system and notification settings
- Ensure data security and backup

The system is designed for ease of use, security, and scalability, leveraging modern web technologies and cloud backend services.

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## Features

- **Student Management:** Add, edit, and view student details
  - **Fee Management:** Record payments, view payment history, and manage dues
  - **User Accounts:** Add, delete, and reset passwords for admin accounts
  - **Authentication:** Secure login with email and password
  - **Settings:** Configure notifications, academic year, currency, and more
  - **Data Management:** Backup and export hostel data
  - **Responsive UI:** Works seamlessly on desktop and mobile devices
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## Tech Stack

- **Frontend:** React (Vite, TypeScript)
  - **Styling:** Tailwind CSS, Shadcn UI Components
  - **Icons:** Lucide React
  - **Backend:** Supabase (PostgreSQL, Auth)
  - **State Management:** React Query
  - **Linting/Formatting:** ESLint, Prettier
  - **Build Tool:** Vite
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## Setup Instructions

### 1. Clone the repository:

```
git clone <repo-url>
cd pim-hostel
```

### 2. Install dependencies:

```
npm install
```

### 3. Configure Supabase:

- Update `src/integrations/supabase/client.ts` with your Supabase project URL and anon key.
- Run migrations in the `supabase/migrations/` folder if needed.

### 4. Start the development server:

```
npm run dev
```

### 5. Access the app:

- Open <http://localhost:5173> (<http://localhost:5173>) in your browser.
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# Usage Guide

- **Login:** Use your admin email and password to log in.
  - **Dashboard:** View statistics and quick links.
  - **Students:** Add, edit, or remove student records.
  - **Fees:** Record payments and view payment history.
  - **Settings:**
    - Manage user accounts (add, delete, reset password)
    - Configure system preferences
  - **Logout:** Use the sidebar or settings to log out securely.
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## Work Distribution

- **Srujan Moolya:** Project architecture, authentication, dashboard UI, student management
  - **Neelanjan V:** Fees management, payment dialogs, UI forms, testing
  - **Vishal Shetty:** Settings/configuration, sidebar/navigation, reusable UI, documentation
  - **Aneesh Bhat:** Responsive design, accessibility, performance, deployment
  - **Dheeraj Kumar:** Database schema, Supabase backend, API integration, QA
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## Developer Credits

Developed by MCA batch 2024-2026 for PIM - Poornaprajna Institute of Management

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## License

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