WEEK 17(Nov. 25th to 29th):

**Hostel Management System: Detailed Project Description**

The Hostel Management System is a web-based application designed to streamline and enhance the management of hostel operations. By digitizing traditional, manual processes, this system provides a centralized platform for both administrators and students to efficiently handle day-to-day activities. The project is divided into two primary modules: Admin Module and Student Module, each tailored to cater to the specific needs of users.

**Technological Stack**

Frontend Technologies

* HTML: Structure of the web pages.
* CSS & Bootstrap: Styling and responsive design for a user-friendly interface.
* JavaScript: Adding interactivity and client-side validation.

Backend Technologies

* PHP: Server-side scripting for handling core logic and database interactions.
* MySQL: Relational database for storing student, room, fee, and complaint data.

Project Workflow

1. User Authentication:
   * Separate login interfaces for students and admins.
2. Data Management:
   * Data is stored in a relational database with logical structuring to optimize queries.
   * Admins manage and update data, while students view or interact with relevant information.

**Student Module:**

Student Login and Authentication:

* Secure login system with unique credentials for each student.
* Validates user identity using PHP and backend database verification.
* Protects sensitive information with encryption and secure session handling.

Profile Management:

* Students can view and update personal information such as name, contact details, and address.
* Displays assigned room details, including room number, type, and capacity.