## ****Project:****

## ****University Hostel Management System****

**SRS (processing):**

## ****Functional Requirements:****

We are using the **Waterfall model** for this project because it goes step by step and is easy to manage for our team. Below are the main functions of our Hostel Management System.

### ****Login and Verification****

* Users can log in using registration number and password same as university admission portal.
* Before opening the dashboard, it will check login details so that application can move further.

### ****Dashboard****

* The dashboard will show total rooms, available rooms, and no of beds available.

### ****Student Management****

* New students can register by adding basic details (name, father’s name, email, gender, address,).
* Admins can edit or update student information.
* The system will keep a record of student history.
* When student inputs gender in the basic details above the building will automatically be selected for boys and girls
* Since hostel buildings are separate for boys and girls, the system will verify the student’s gender and allocate rooms in the correct building.

### ****Room Management****

* The system will store room numbers and bed details per room.
* Rooms will be divided by type (AC/Non-AC).
* It will show which rooms are free or filled.

### ****Room Allocation****

* It will assign a specific room and bed to the student.
* Room status will update automatically on dashboard.

### ****Electricity Management****

* The system will record **monthly electricity usage** for each room.
* It will calculate **electricity bills** and show whether they are paid or pending.

### ****Mess Management****

* The system will keep record of students who are using the **mess service**.
* It will calculate **monthly mess (food) charges**.
* Mess expenses will be added to the student’s overall monthly bill.

### ****Payments****

* The system will calculate **room rent**, **mess charges**, and **electricity expenses** together.
* A single **combined monthly bill** will be generated.
* All bills will be shown together in one section along with the rent, so users can easily check their total amount.
* After payment, the system will show a **confirmation message** and save the **payment history**

### ****Complaints****

* Students can submit complaints with their details and issue description.
* Admins will be notified of new complaints.
* The system will track complaint progress. (either it is completed or in progress)
* Complaint records will be saved.

### ****Others Facilities:****

* **If the Laundry is required the extra charges can be paid to staff personally.**