BANNARI AMMAN INSTITUTE OF TECHNOLOGY

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Sathyamangalam - 638401 Erode District, Tamil Nadu, India

Student Name - VASUKI A
Seat No - 119
Project ID - 39
Project Title - BIT Staff Quarters Portal

Technical Components

COMPONENT	TECH STACK
Frontend	HTML/CSS/JAVASCRIPT
Backend	PHP
Database	MYSQL

PROBLEM STATEMENT:

Managing staff quarters portals presents numerous challenges due to its decentralized nature, including:

- **Inconsistent Communication:** Various administrative units and departments within the institution operate independently, resulting in duplicated information and inconsistent messaging regarding staff quarters management.
- **Schedule Conflicts:** Staff members receive multiple emails containing conflicting information about staff quarters maintenance schedules, and related events, leading to confusion and potential scheduling conflicts.
- **Administrative Burden:** The manual management of email distribution lists, resolving conflicts, and ensuring timely dissemination of critical information

regarding staff quarters imposes a significant administrative burden on staff and faculty members, detracting from their primary responsibilities

PROJECT-FLOW:

Purpose:

To develop a centralized staff quarters management portal that efficiently handles communication, complaints, and guest check-ins/outs, resolving existing issues of fragmented information and administrative burden.

Scope:

This system encompasses user authentication, a complaint submission form, real-time status updates for complaints, and a guest management module. It integrates with existing authentication systems and communication channels to ensure seamless interaction.

Business Context:

The staff quarters management portal aims to streamline communication and complaint resolution processes within the institution, thereby reducing administrative overhead and improving staff satisfaction. Primary stakeholders include faculty members, administrative staff, and the IT department.

Consideration:

- All users have valid credentials for authentication.
- Users have access to internet-enabled devices for portal usage.

Dependencies:

- Integration with existing authentication systems for user verification.
- Reliable performance and availability of the portal server.

User Personas:

- Faculty Member: Needs access to their details, their block's complaints, and guest check-in/out records for effective management.

- Administrative Staff: Manages complaint submissions, assigns tasks, and updates complaint statuses.
- IT Administrator: Ensures the smooth functioning of the portal and handles technical issues.

User Stories:

As a faculty member, I want to view details about my assigned staff quarters, including any ongoing complaints or issues, to ensure a comfortable living environment.

As an administrative staff member, I need to receive complaint submissions, assign them to appropriate personnel, and track their resolution status for efficient management.
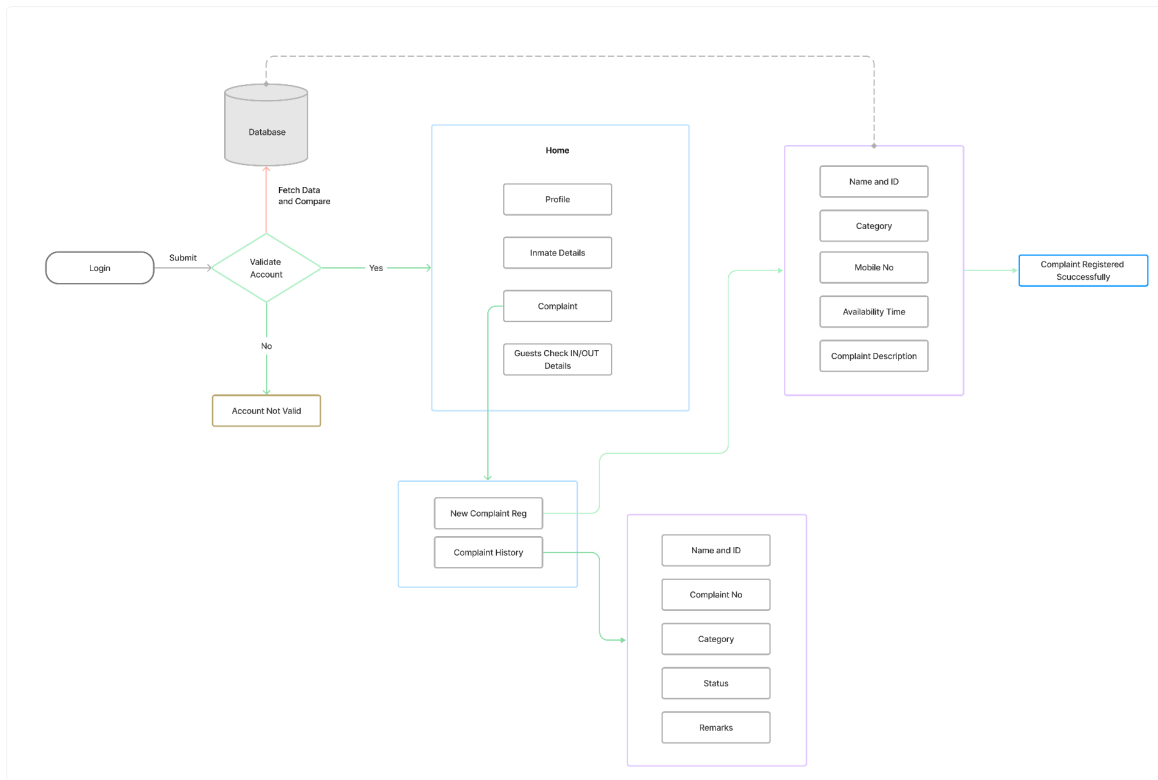
As an IT administrator, I want to ensure the portal operates smoothly, handle any technical issues promptly, and provide support to users as needed.
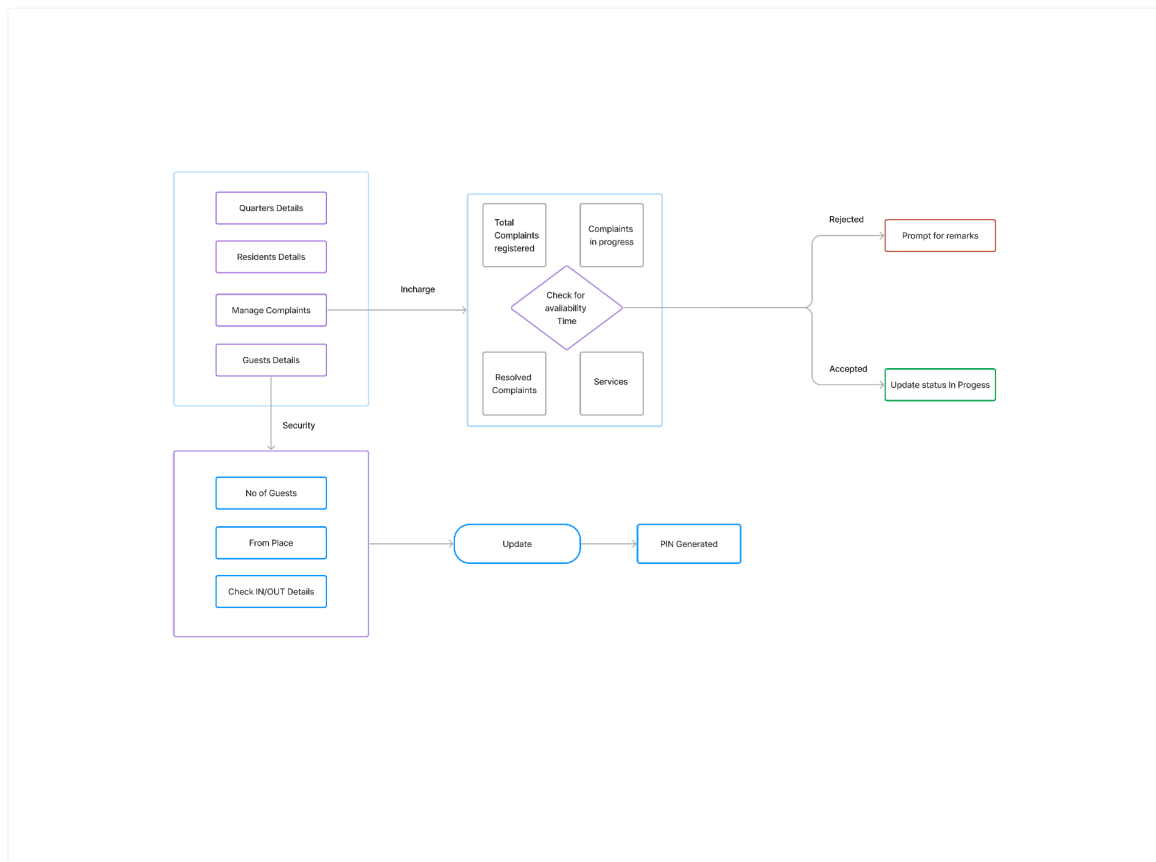
Functional Requirements:

- User Authentication: Secure login using existing credentials.
- Complaint Submission Form: Users can submit complaints regarding plumbing, gardening, or other issues.
- Complaint Management: Automatic assignment of complaints to relevant staff, real-time updates on complaint status, and notifications upon resolution.
- Guest Management: Recording guest check-ins/outs, updating guest records, and generating reports.
- Messaging System: Facility for staff and administrative personnel to communicate regarding complaints and resolutions within the portal.

FLOW CHART:

USER INTERFACE

Database

Fetch Data and Compare

Login

Submit

Validate Account

Yes

No

Account Not Valid

Home

Profile

Inmate Details

Complaint

Guests Check IN/OUT Details

Name and ID

Category

Mobile No

Availability Time

Complaint Description

Complaint Registered Scuccessfully

New Complaint Reg

Complaint History

Name and ID

Complaint No

Category

Status

Remarks

ADMIN INTERFACE

Backend:

1.Faculty Entity:

Faculty ID	String
Name	String
Email	String
Password	Hash Code

2.Complaint Details Entity:

Faculty ID	String

Details	Array of objects	
	Category	String(Drop down)
	Total Complaints	Number
	Complaint No	Number
	Status	String
	Availability Time	Time(Drop down)
	Availability Date	Date(Drop down)

3.GUESTS DETAILS

Name	String
PIN	Number

Prototype of the Project:

1.Login Form

Login

Username

username

Password

Password

Forgot Password?

Sign in

or continue with

G

2.User's View

User

P

Welcome!

Log out

Home

Complaint

Guests check in/out Details

PROFILE

INMATE
DETAILS

7
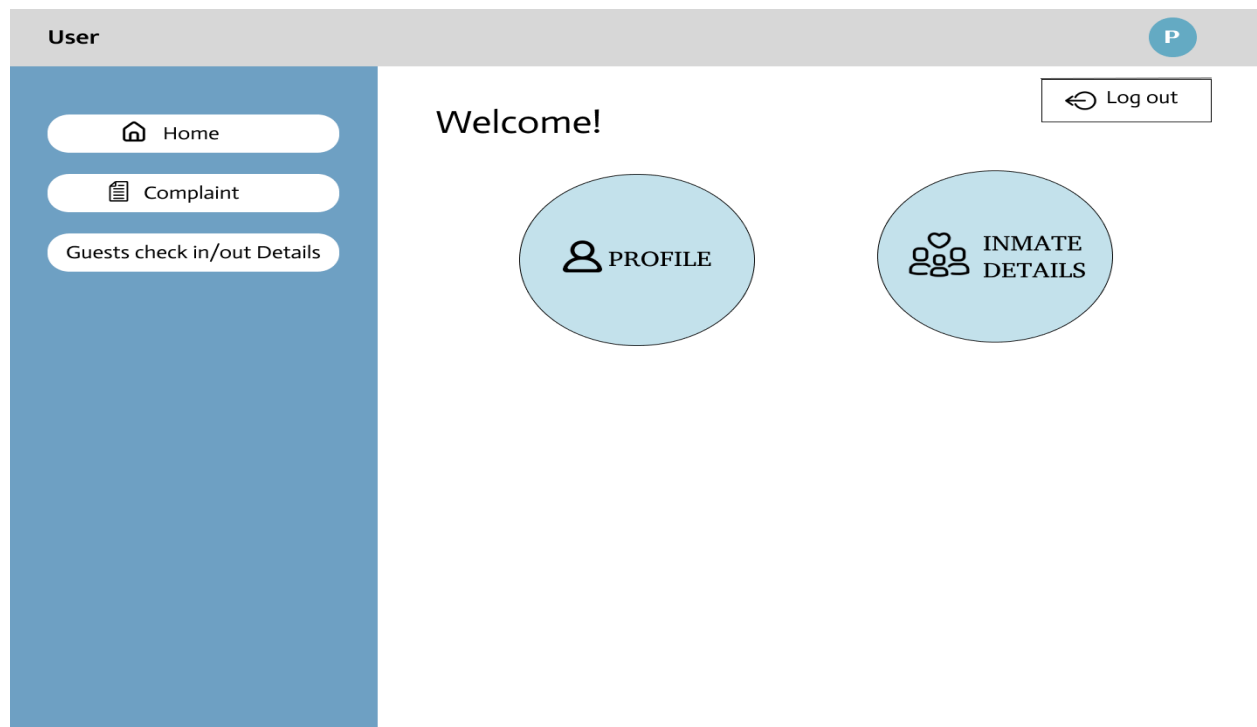
3.Complaint Reg

COMPLAINT	P

Name

ID

Category

Mobile No

Availability time ▼

Quarters No

Complaint Description

Submit

4.Admin's View

Quarters Admin　　　　　　　　　　　　　　　　　　　　　　A

Home

Manage Complaints

Guests Check In /Out Details

WELCOME!

Quardent Details

Resident Details

Total Complaints

45

5.Guests Update Page

PIN GENERATED SUCCESSFULLY ✓

No of Guests

From Place

Check In/Out

From			To	
05-10-2022	17:30 ⌄	⟶	05-10-2022	18:00 ⌄

Submit

6. Complaints Page

Complaint Id	Category	Availability Time	Status
67	Plumbing	9.00AM -10PM	In progress
78	Gardening	11.00AM-12.30PM	In progress
90	Electronics	11.00AM-12.30PM	In progress
112	Carpentary	11.00AM-12.30PM	Rejected
124	Plumbing	11.00AM-12.30PM	In progress
156	Gardening	9.00AM -10PM	Rejected