Hostel Management system (HOMS)

Course Id : IE418

UX Design for Mobile Applications

Prototype Link :

https://www.figma.com/proto/nz9Bh7nyCBgcSs6Lv9Mse4/Ux-project?page-id=0%3A1&node-id=87-127&p=f&viewport=687%2C215%2C0.11&t=zeEXf12yj3gqQESy-1&scaling=contain&content-scaling=fixed&starting-point-node-id=87%3A127

Group Members

202101082 - K Phool Singh

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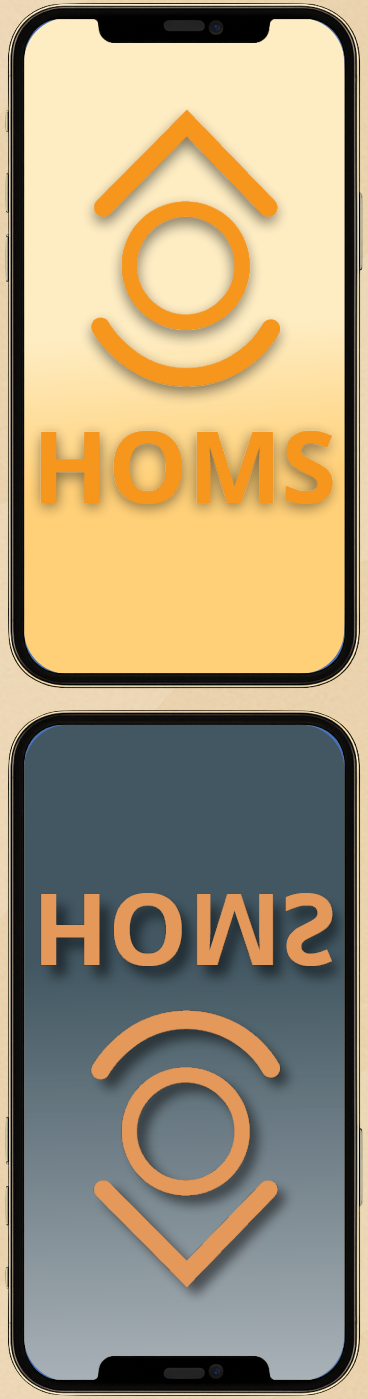
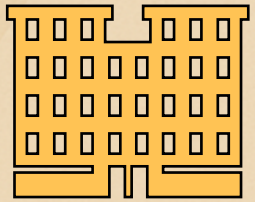


Project overview



Welcome to HOMS – Your Smart Hostel Management Solution!

Managing a hostel efficiently can be challenging, but HOMS makes it seamless and hassle-free. Designed with both administrators and residents in mind, HOMS streamlines room allocations, rent tracking, visitor logs, maintenance requests, and more—all in one easy-to-use platform.

Whether you're handling a small hostel or a large accommodation facility, HOMS provides an intuitive and automated approach to simplify day-to-day operations, improve communication, and enhance the overall living experience.

Say goodbye to manual record-keeping and hello to a smarter way of managing hostels!

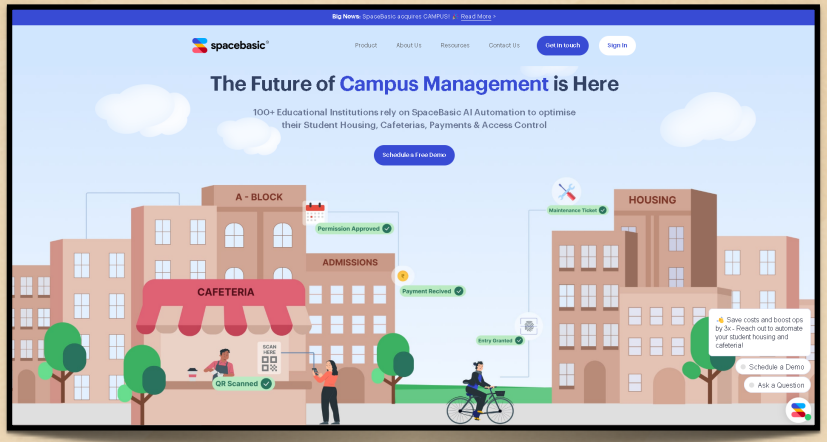
Research

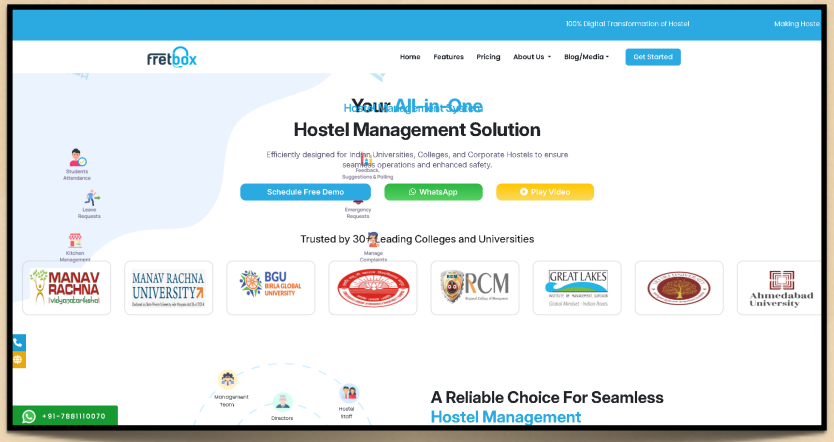
Hostel management plays a vital role in ensuring the smooth operation of residential facilities, affecting both administrators and residents. An efficient system helps maintain organization, improves communication, and enhances the overall living experience. Traditional hostel management methods, often reliant on manual record-keeping, can lead to inefficiencies, errors, and delays in handling essential tasks such as room allocation, rent collection, visitor tracking, and maintenance requests.

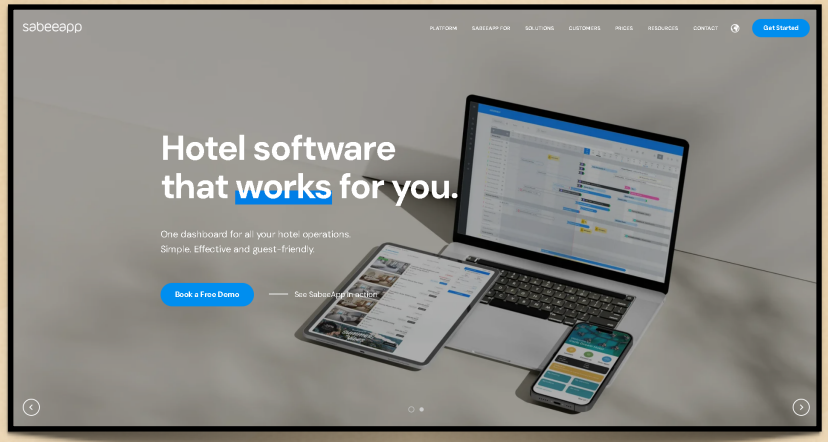
The absence of a streamlined and digital hostel management system creates significant challenges, making it difficult to ensure transparency, security, and convenience. To address these issues, HOMS (Hostel Management System) is designed to provide an automated, user-friendly, and integrated solution. By digitizing administrative processes, HOMS reduces manual effort, minimizes errors, and enhances efficiency. With features such as real-time data tracking, automated notifications, and secure record-keeping, HOMS ensures that hostel management is both organized and hassle-free.

Preserving structured and efficient hostel operations is essential for creating a comfortable and well-managed living space. By implementing HOMS, hostels can improve their management practices, making life easier for both administrators and residents while embracing **modern technological advancements in** accommodation management.

Competitor Analysis







Space basics

- Primarily focused on educational institutions.
- Less customizable for non-academic hostels.
- Heavy reliance on internet connectivity.
-

Freatbox

- Targeted mostly toward large-scale hostels and co-living spaces.
- Pricing may not be suitable for smaller hostels.
- Less flexibility for offline functionality.

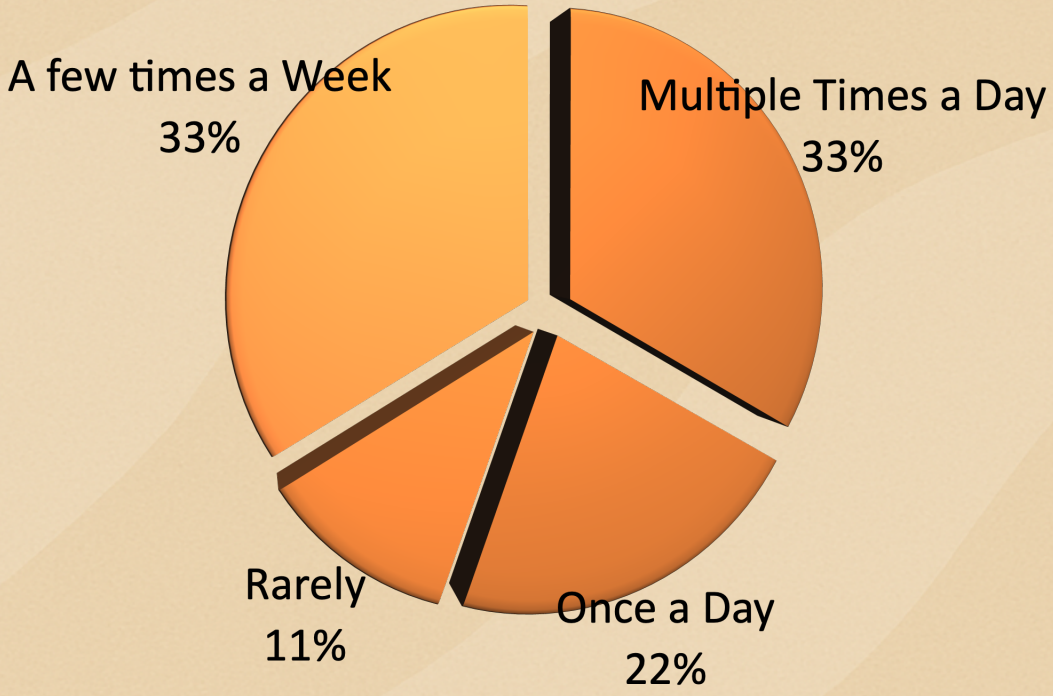
Sabee app

- Designed more for hotels, not hostels.
- Lacks resident-specific features like maintenance requests or recurring rent reminders.
- Interface can be too complex for simple hostel needs.

User survey

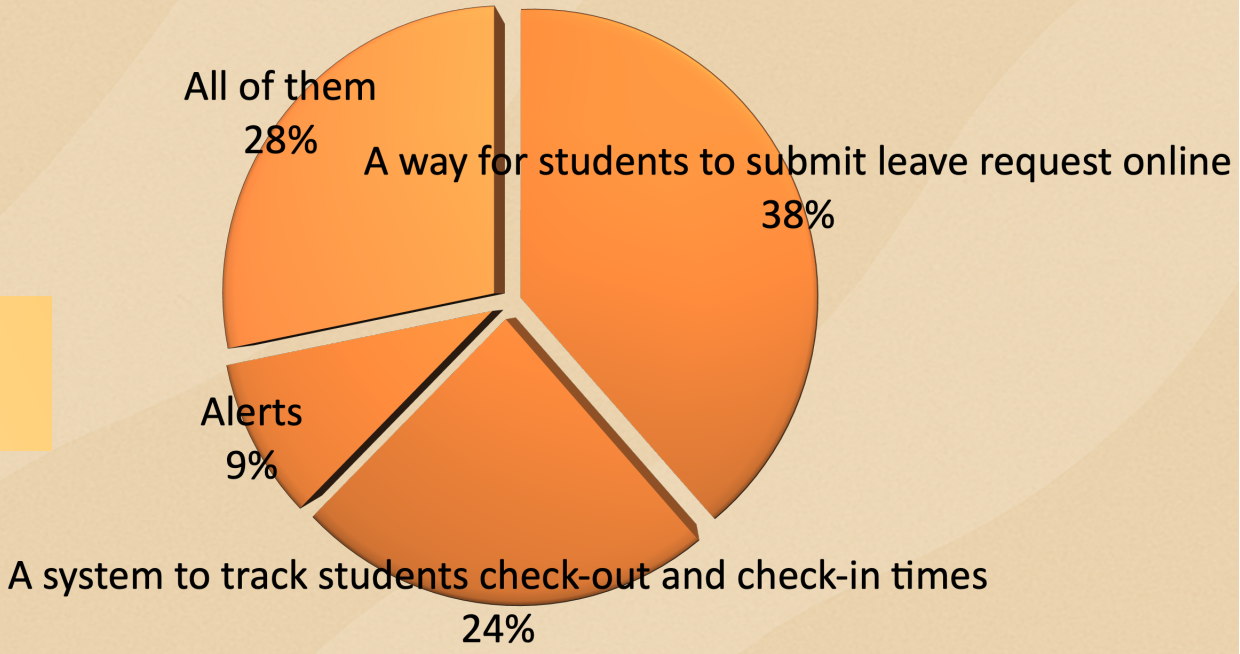
- HOMS – Hostel Management System User Survey
- How often do you use this app?
- What type of hostel are you part of?
- How many residents are currently managed in your hostel?
- How do you currently manage hostel operations?
- What challenges do you face in managing hostel tasks?
- Which features would be most useful to you in a hostel management system?
- What should a digital leave management system include?
- Would you prefer a cloud-based, offline, or hybrid system?
- Have you used any hostel management software before? If yes, what was your experience?
- What additional features or improvements would you like to see in HOMS?

SURVEY RESULTS



- Survey indicate a demand for an app for hostel management system that help user with their complaints and fees payment or such things

- 80% of student need a online payment system tht in help full with their needs



DESIGN STATEMENT

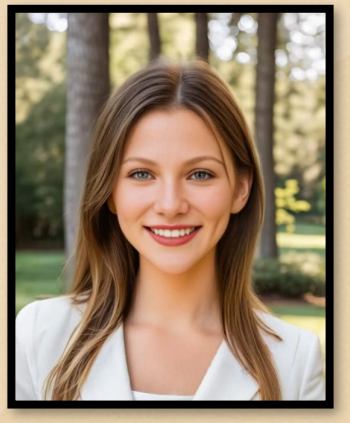
The goal of HOMS is to design and develop an intuitive, efficient, and scalable digital system that simplifies and automates hostel management processes. The system will cater to the needs of hostel administrators, staff, and residents by offering modules for room allocation, rent collection, visitor tracking, maintenance management, and communication.

The design focuses on creating a user-friendly interface with streamlined workflows, ensuring that users with varying levels of technical proficiency can operate the system with ease. Emphasis will be placed on data security, role-based access control, and real-time notifications to enhance operational transparency and accountability.

HOMS will be built as a modular and scalable platform, adaptable for hostels of different sizes—from small independent hostels to large-scale student housing or corporate accommodations. The system will support both cloud-based and offline modes, ensuring uninterrupted access and functionality.

The ultimate objective is to reduce manual effort, minimize errors, and provide a seamless digital experience that improves efficiency and satisfaction for all stakeholders involved in hostel management.

User Persona



- **Name:** Aditi Sharma
- **Age:** 21
- **Role:** Resident / College Student
- **Experience:** Staying in hostel for 2 years
- **Tech Comfort Level:** High

Goal

- Quick access to rent payment and room details
- Easy way to raise complaints (e.g., maintenance)
- Stay updated with notices or rules

Pain Points:

- Long waits to resolve issues
- No clarity on rent dues
- Missing out on announcements

What they need from HOMS:

- Mobile-friendly interface
- Push notifications for announcements
- Complaint tracking system

Empathy map

Says

"Why is the Wi-Fi always broken?“

“I can't find out when my room is going to be cleaned.“

"There’s no hot water again???“

"I wish we had a way to submit complaints digitally.”

Thinks

"This system is ancient. Are we in the 2000s?“

"Why do I have to go to the warden’s office just to report a leaky tap?“

"Is someone going to steal my food from the fridge again?“

"If this place had an app, I might actually use it... maybe."

DOes

Texts the warden instead of using the complaint register.

Forgets to pay hostel fees until the last second.

Posts angry stories on Instagram.

Joins unofficial hostel WhatsApp groups.

Feels

Frustrated with outdated processes.

Anxious about missing updates or maintenance schedules.

Powerless in the face of inefficient management.

Annoyed at roommate’s lifestyle choices.

Hostel Management

Room to live, space to grow Managed seamlessly
Comfort and convenience under one roof Where home meets hospitality Managed effortlessly

I’m a Heading

Font Size

I’m a Heading

I’m a Heading

Buttons

Primary | Secondary | Accent

Your stay, our care

Streamlined hostel living

No Food In Rooms

NO SMOKING

HOMS

HOMS

HOMS

HOMS

#ABB3BB	#FFFFFF	#FEEDC3	#BA6439	#525762
SOFT BLUE GRAY	WHITE	PALE PEACH	WARM TERACOTA	SLATE BLUE GRAY

Typography

Poppins — 13 px

Poppins — 24 px

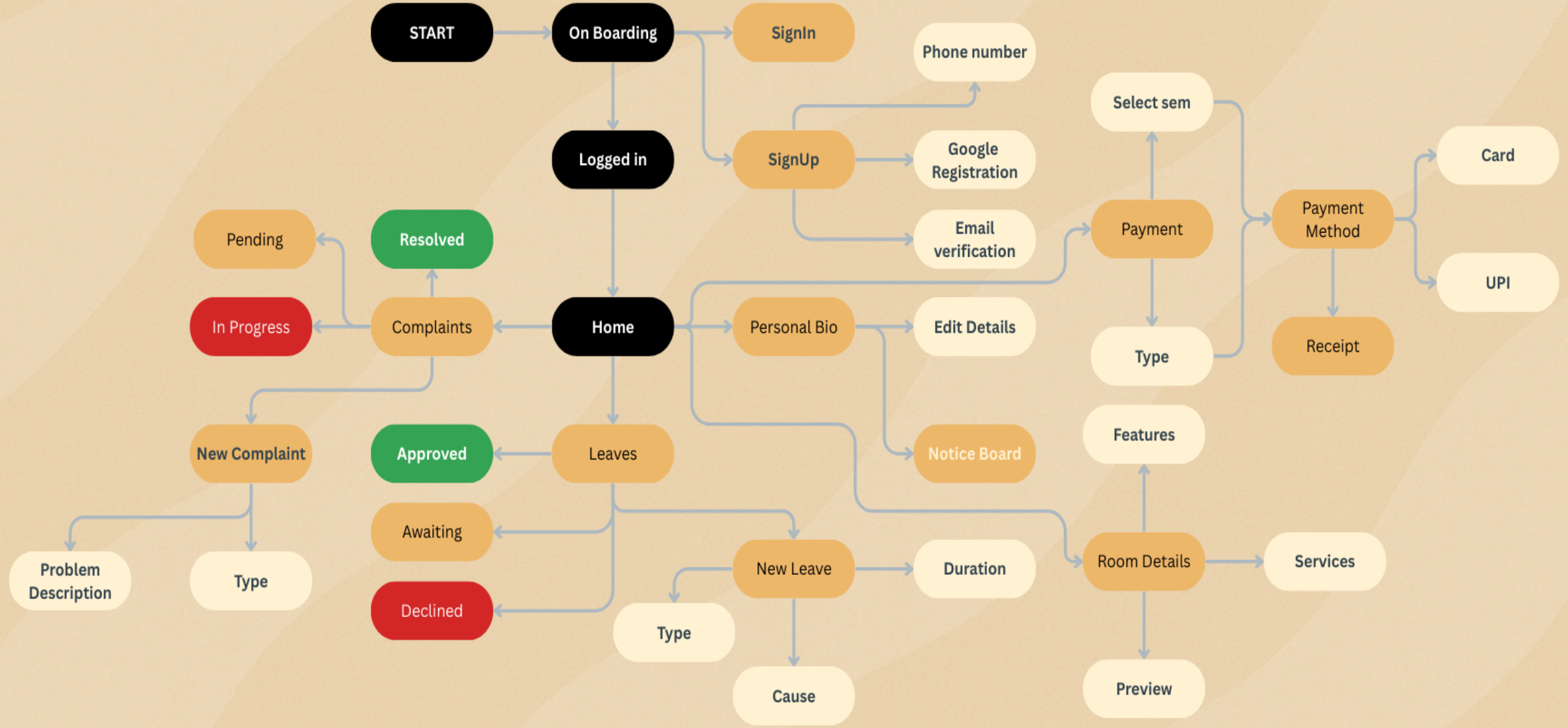
Poppins — 30 px

Poppins — 36 px

Color Palette

#ABB3BB	#FFFFFF	#FEEDC3	#BA6439	#525762
SOFT BLUE GRAY	WHITE	PALE PEACH	WARM TERACOTA	SLATE BLUE GRAY

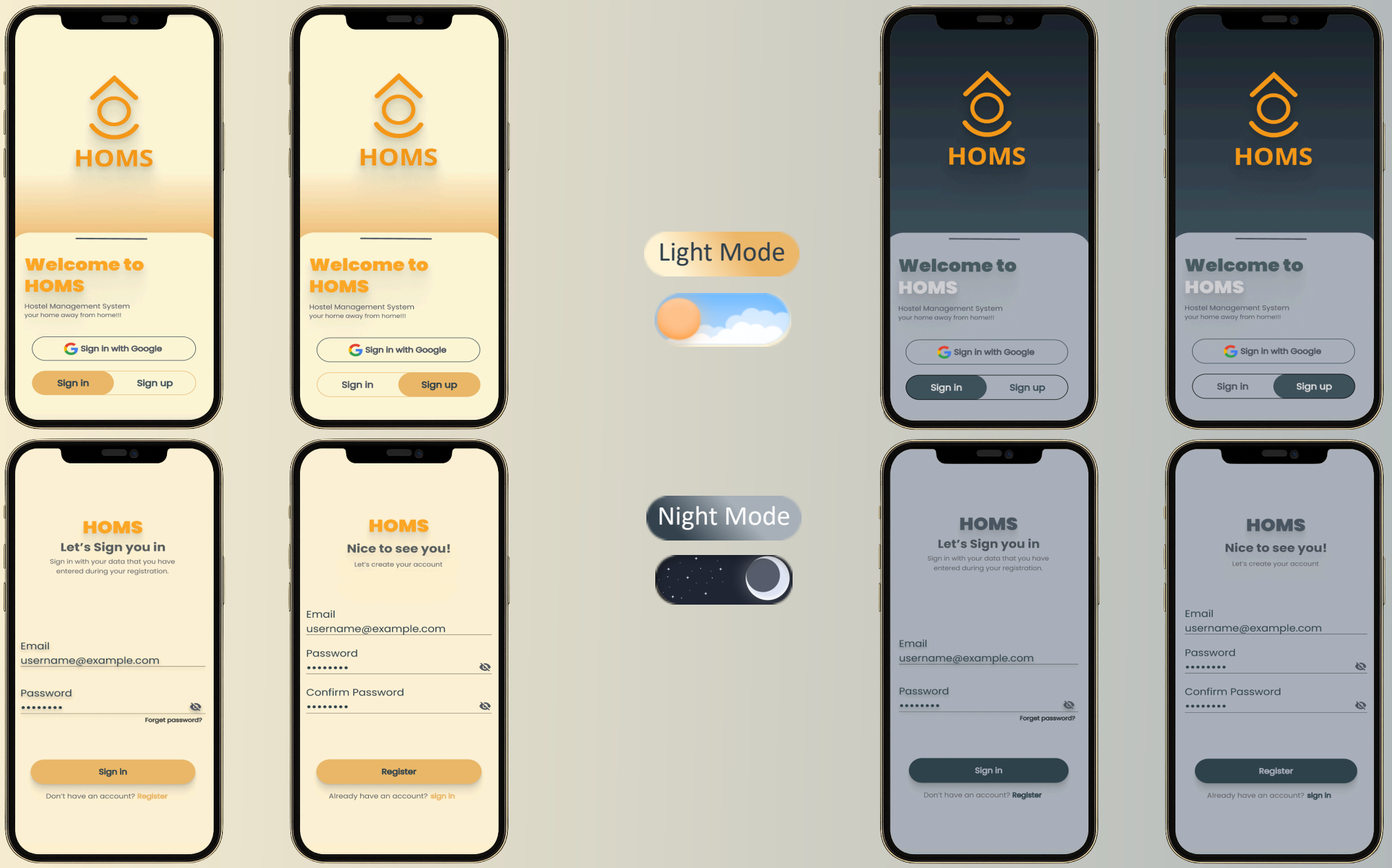
Information Architecture



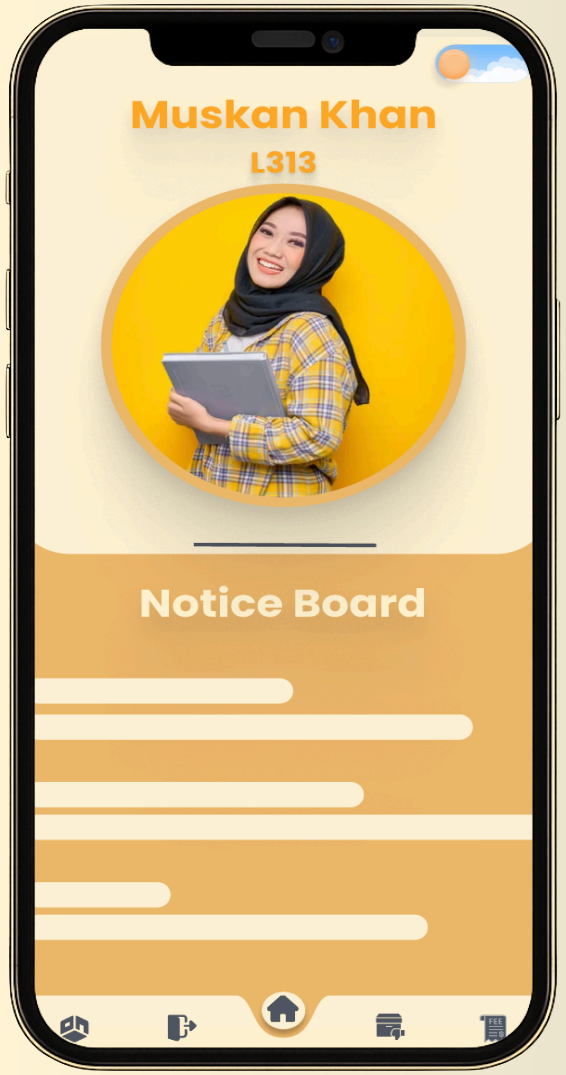
low fidelity

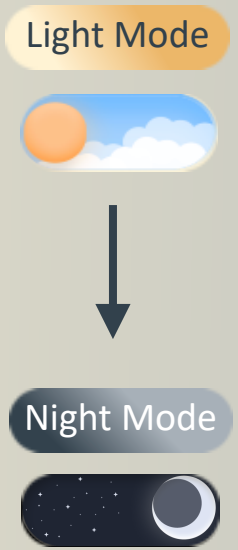
High fidelity

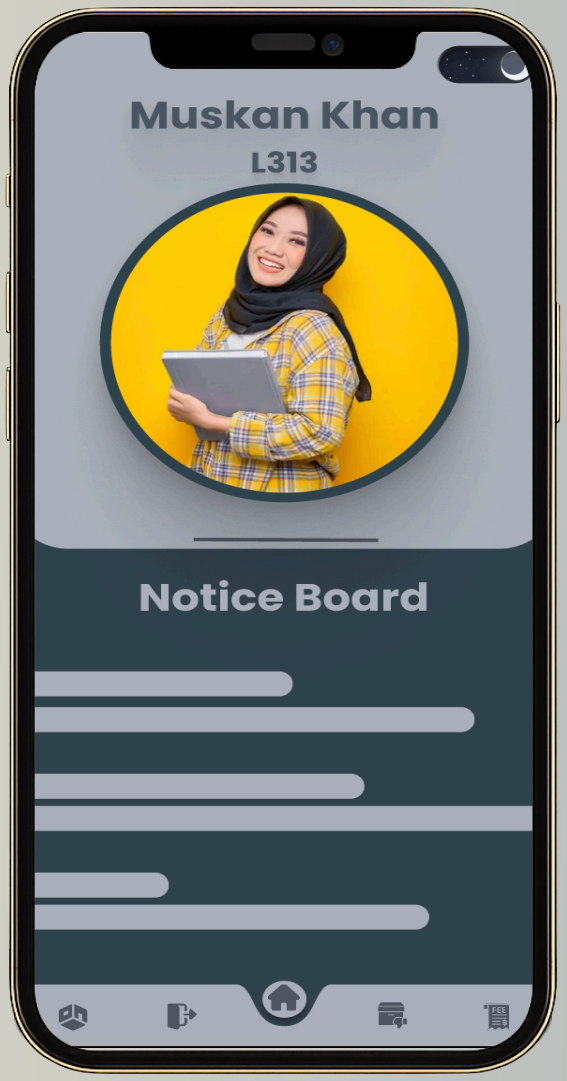
Signup/Login page



Home page





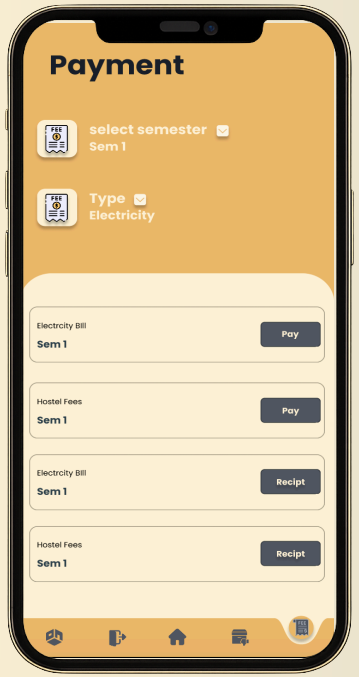


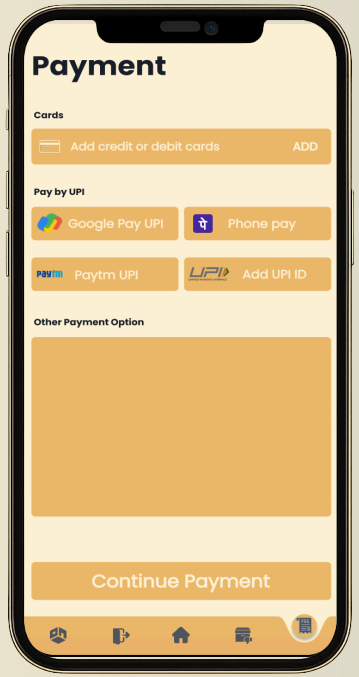
- This is where we can enable Light/Night Mode from the Top Right of the Page

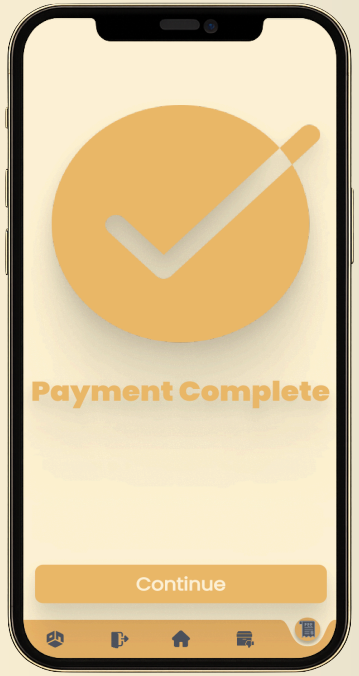
Leave page

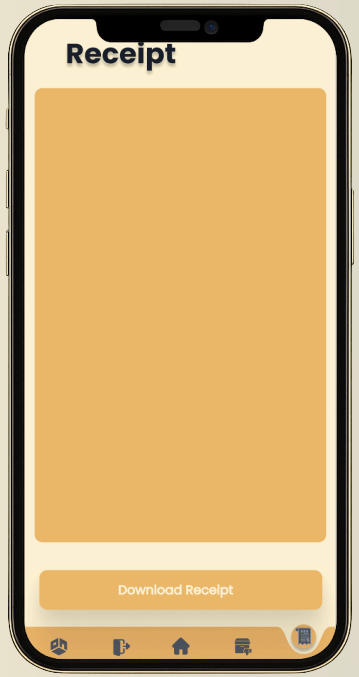
Leaves
All
Casual
Sick
December 2025
Half Day Application
Awaiting
Wed, 16 Dec
Casual
November 2025
Full Day Application
Approved
Mon, 28 Nov
Sick
Full Day Application
Awaiting
Mon, 28 Nov
Sick
3 Days Application
Declined
Tue, 22 Nov-Fri, 25 Nov
Casual
November 2025
Full Day Application
Approved
Mon, 28 Nov
Sick
New Leave
Type
Casual
Cause
Trip to Daman
From
Thu, 27 mar 2025 9:30 am
Time 9:30
March 2025
Mon Tue Wed Thu Fri Sat Sun
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31
To
Thu, 27 mar 2025 9:30 am
Apply for 2 Days Leave
Leaves
All
Casual
Sick
December 2025
Half Day Application
Awaiting
Wed, 16 Dec
Casual
November 2025
Full Day Application
Approved
Mon, 28 Nov
Sick
Full Day Application
Awaiting
Mon, 28 Nov
Sick
3 Days Application
Declined
Tue, 22 Nov-Fri, 25 Nov
Casual
November 2025
Full Day Application
Approved
Mon, 28 Nov
Sick
New Leave
Type
Casual
Cause
Trip to Daman
From
Thu, 27 mar 2025 9:30 am
Time 9:30
March 2025
Mon Tue Wed Thu Fri Sat Sun
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
23 22 24 25 26 27 28
29 30 31
To
Thu, 27 mar 2025 9:30 am
Apply for 2 Days Leave

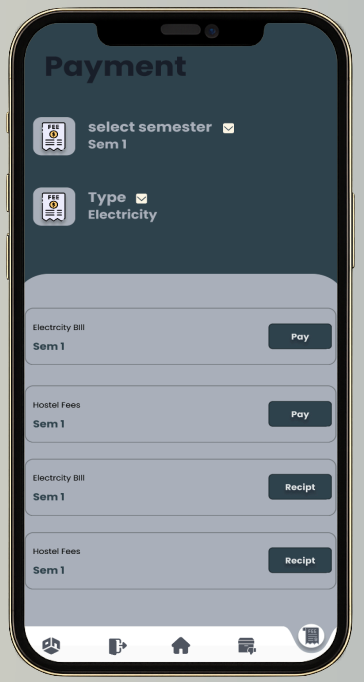
Fees page

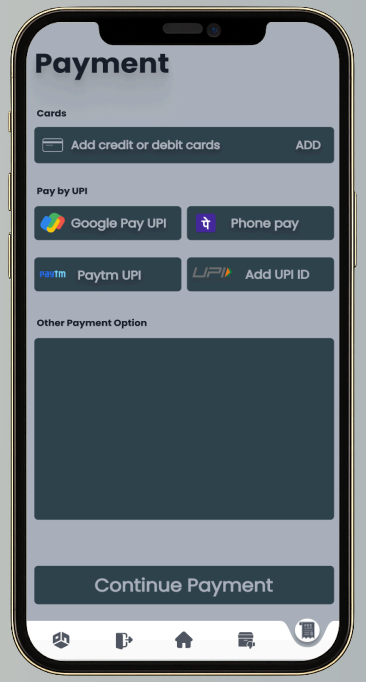

Payment
select semester
Sem 1
Type
Electricity
Electrcity Bill
Sem 1
Pay
Hostel Fees
Sem 1
Pay
Electrcity Bill
Sem 1
Recipt
Hostel Fees
Sem 1
Recipt

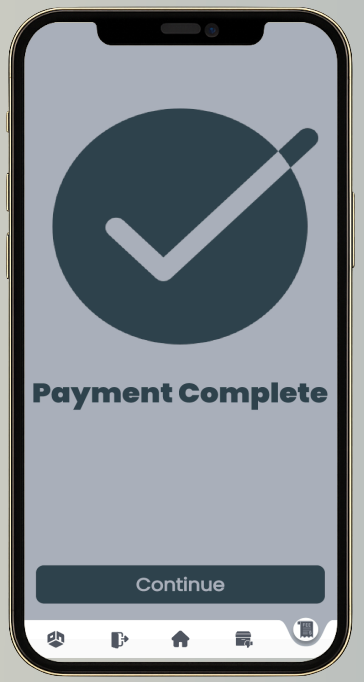

Payment
Cards
Add credit or debit cards
ADD
Pay by UPI
Google Pay UPI
Phone pay
Paytm UPI
Add UPI ID
Other Payment Option
Continue Payment


Payment Complete
Continue


Receipt
Download Receipt

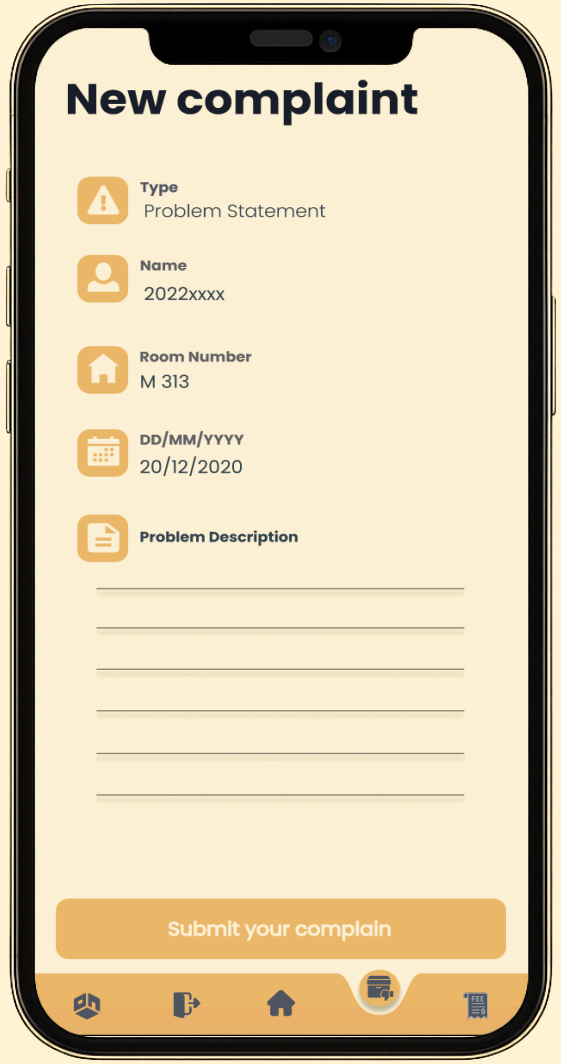

Payment
select semester
Sem 1
Type
Electricity
Electrcity Bill
Sem 1
Pay
Hostel Fees
Sem 1
Pay
Electrcity Bill
Sem 1
Recipt
Hostel Fees
Sem 1
Recipt

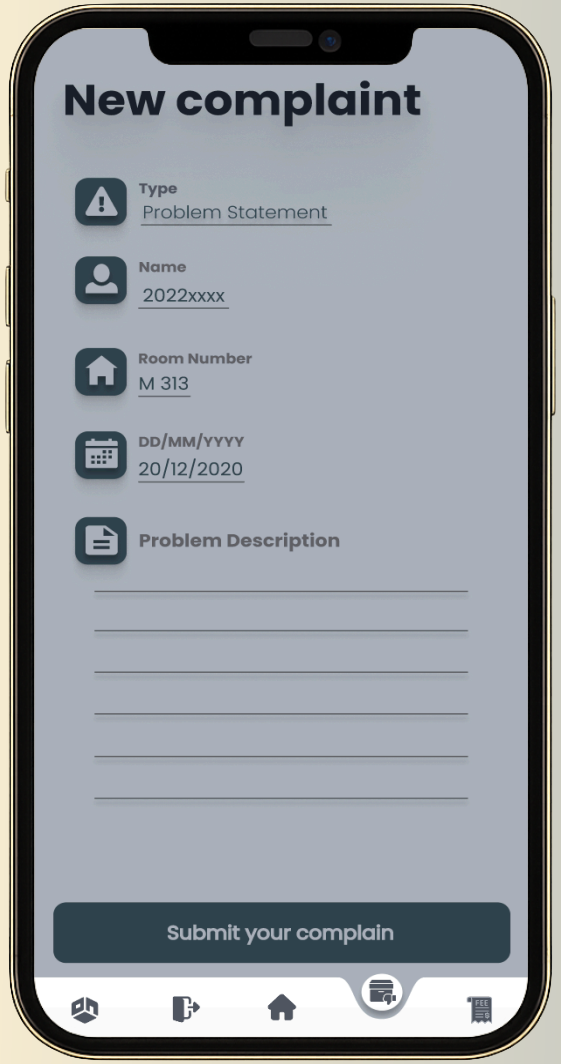

Payment
Cards
Add credit or debit cards
ADD
Pay by UPI
Google Pay UPI
Phone pay
Paytm UPI
Add UPI ID
Other Payment Option
Continue Payment


Payment Complete
Continue

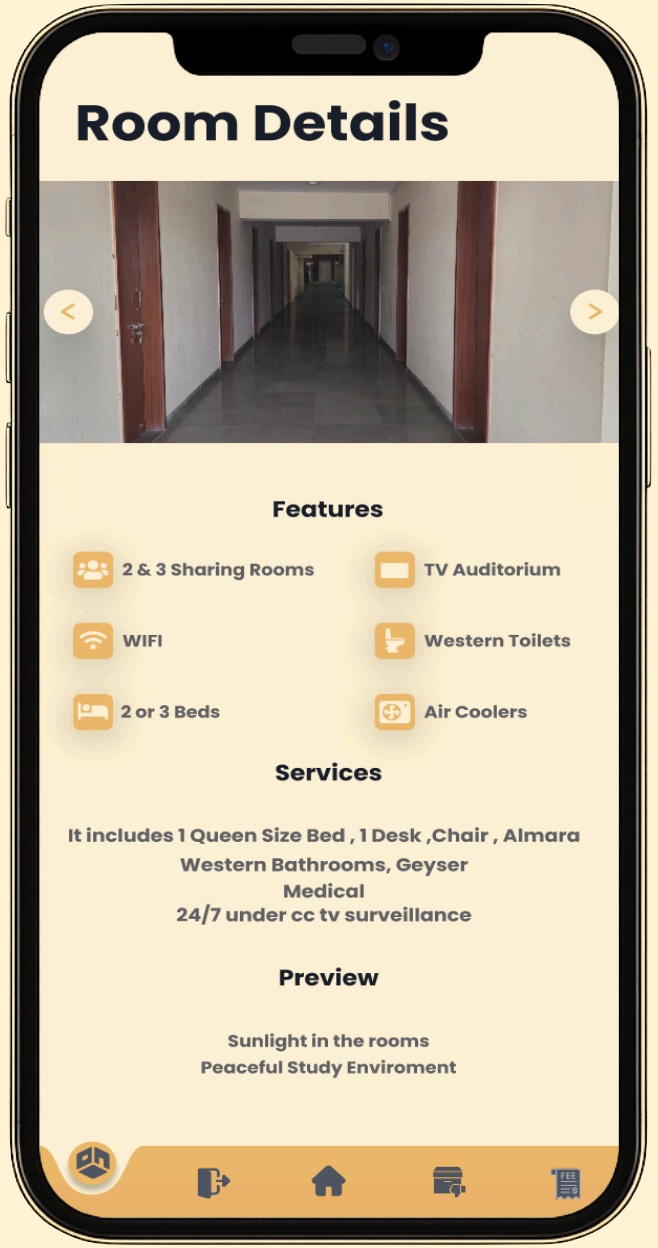
Receipt
Download Receipt

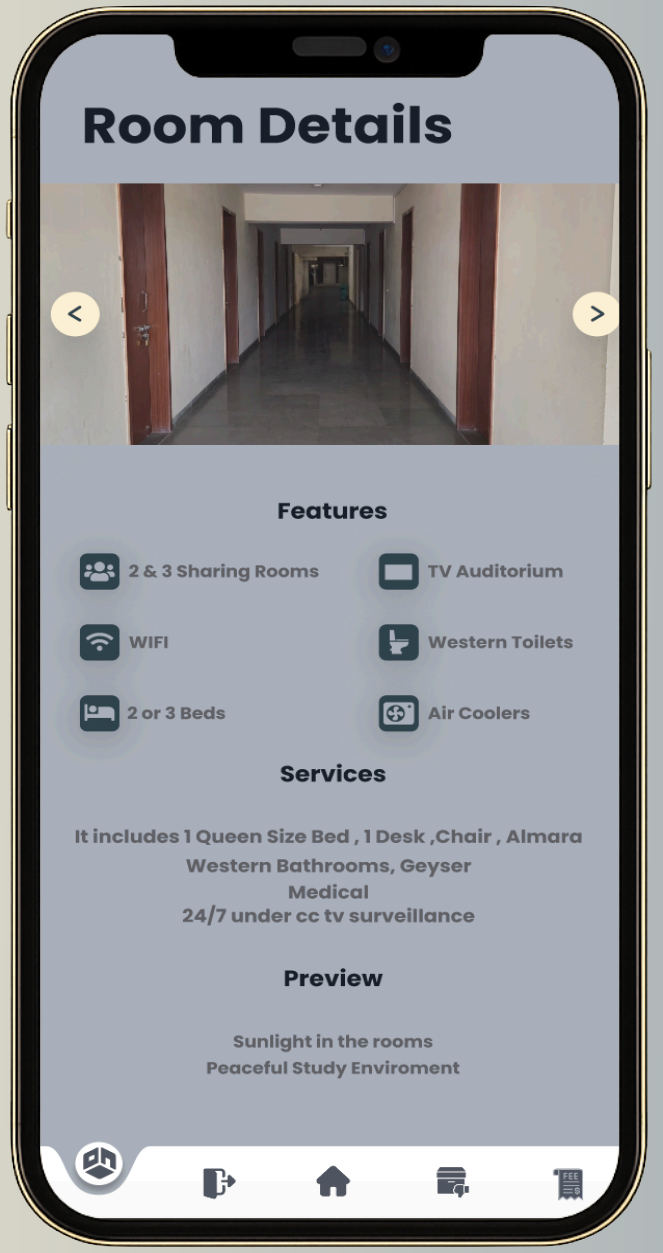
Complaint page





Room detail


Room Details
Features
2 & 3 Sharing Rooms
TV Auditorium
WIFI
Western Toilets
2 or 3 Beds
Air Coolers
Services
It includes 1 Queen Size Bed , 1 Desk ,Chair , Almara
Western Bathrooms, Geyser
Medical
24/7 under cc tv surveillance
Preview
Sunlight in the rooms
Peaceful Study Enviroment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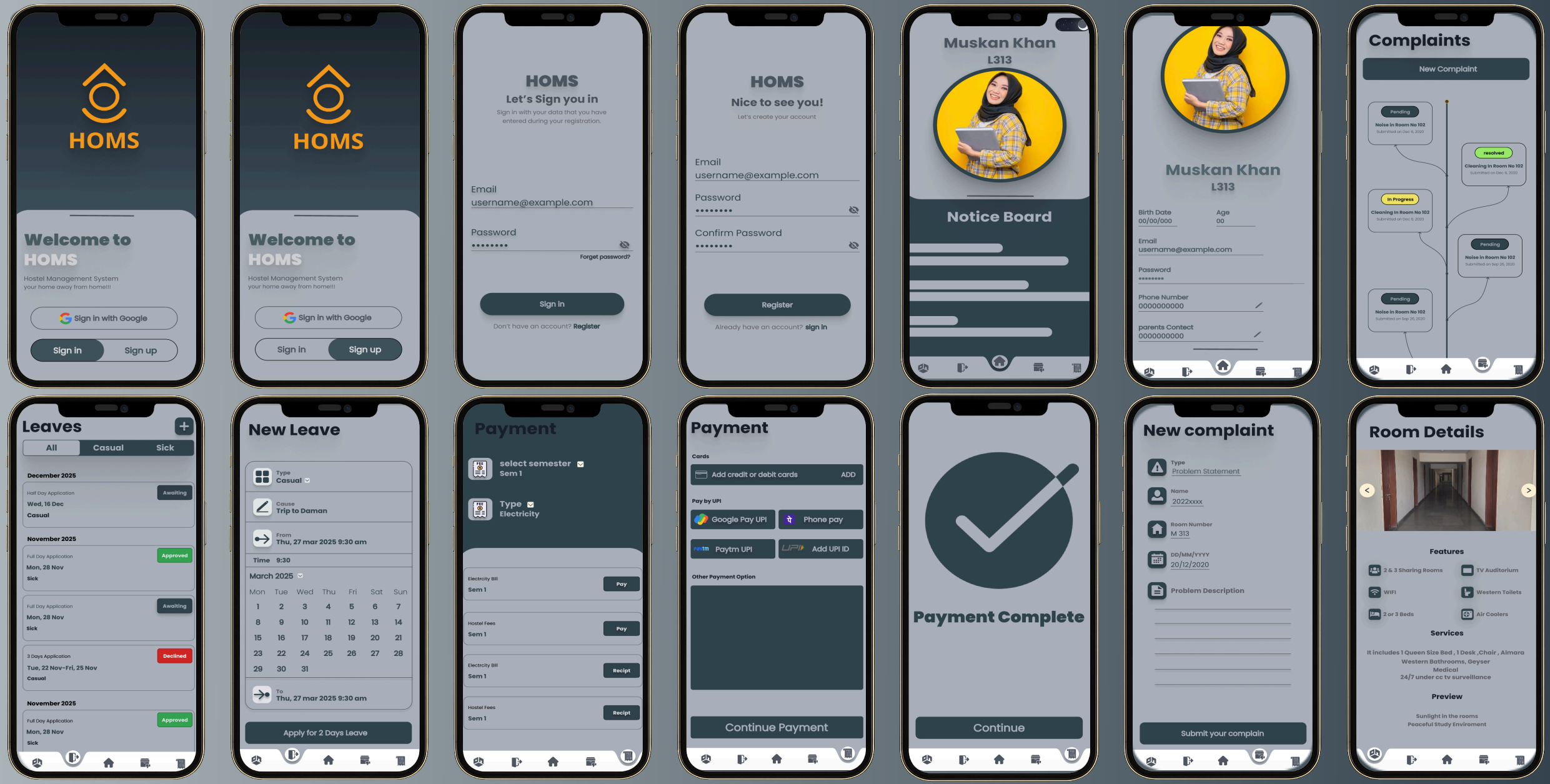
Peaceful Study Enviroment

High fidelity

Light Mode

High fidelity

Night Mode



Thank You

HOMS