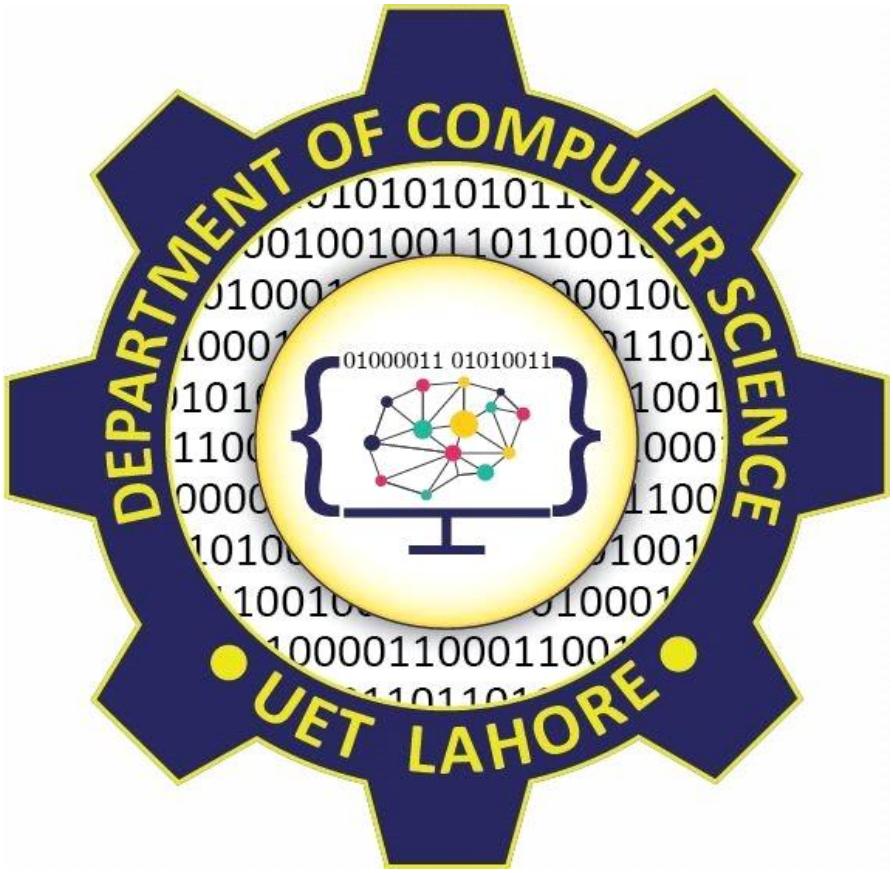

Hostel Management System

Submitted By:

Tajammal Maqbool, 2020-CS-36

Submitted To:

Dr. Awais Hassan

For Fulfilment of

CS 142 Object Oriented Programming

Department of Computer Science

University of Engineering and Technology, Lahore

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Functional Requirements:

- User Must login with a Username & Password in Order to use the System.

Owner:

- Can add a New Manager.
- Can View All person's Name & No. of Allotted Rooms.
- Can view Total Amount of Allotted Rooms.
- Can Send Message to Manager & Receive all Messages from Manager.
- Can Change Password of His Account.
- Can logout.

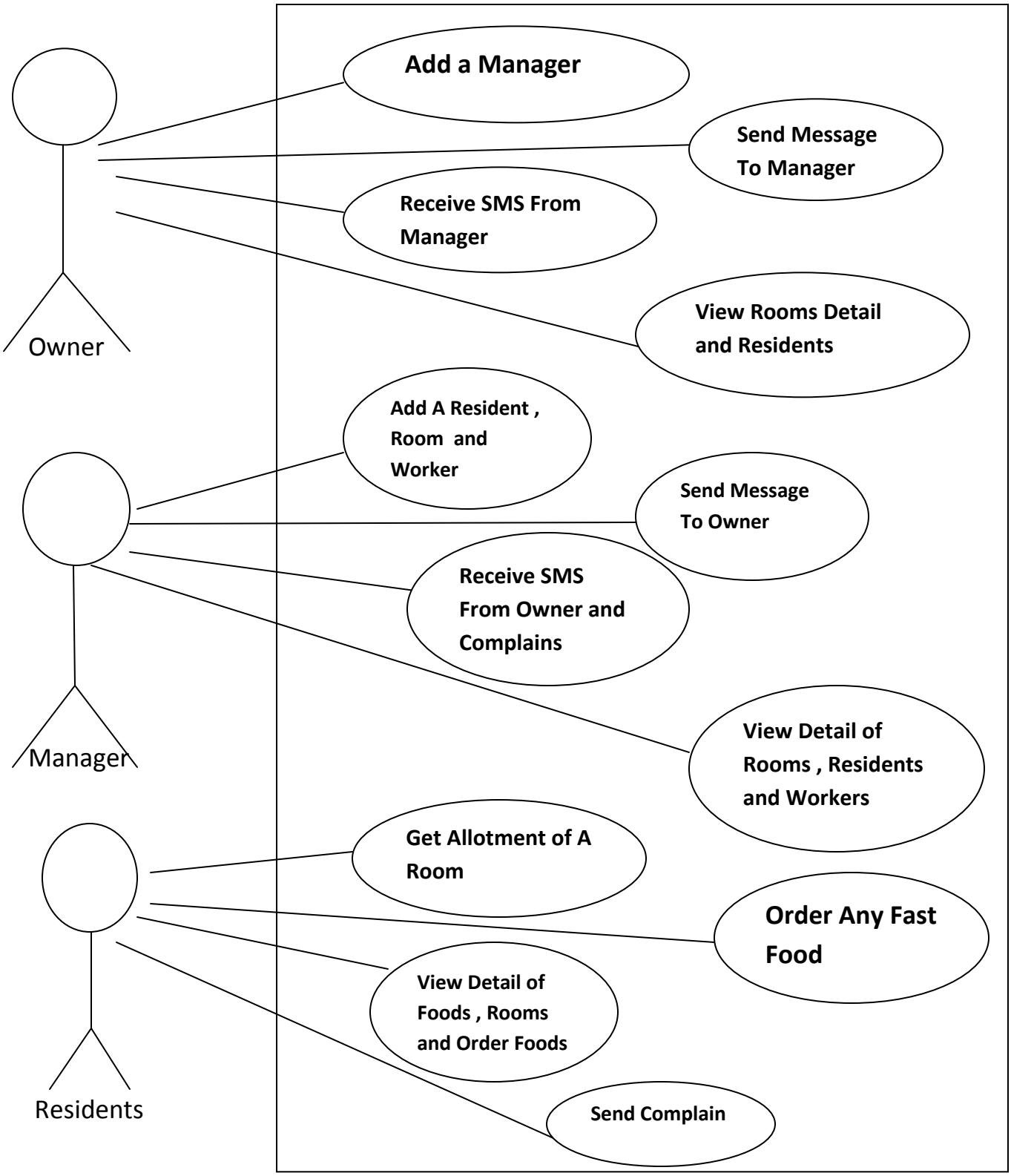
Manager:

- Can add a New Person.
- Can View All person's Name & No. of Allotted Rooms.
- Can view Total Amount of Allotted Rooms.
- Can Send Message to Owner & Receive all Messages from Owner.
- Can change Price of Room.
- Can add Any Fast Food.
- Can view Fast Food List
- Can Add A Worker.
- Can Add a Room
- Can receives All complains from all person.
- Can View Detail of All Workers.
- Can delete Resident , Room , Fast Food and Worker
- Can change password of his Account.
- Can logout.

Resident:

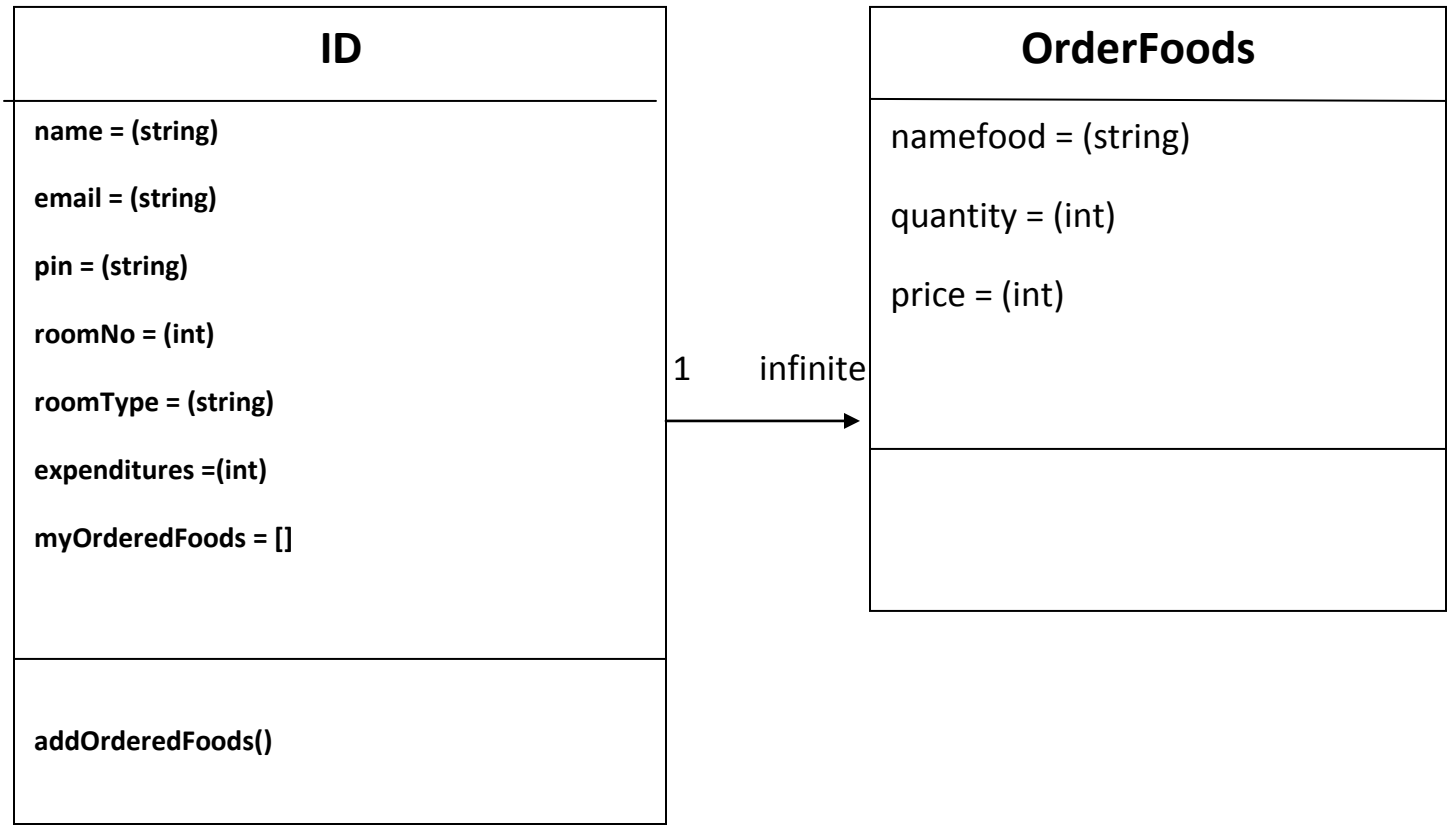
- Can get Allotment of Room.
- Can order Any Fast Food.
- Can view Fast Food List in Descending order.
- Can Send any Complain to Manger.
- Can view All Ordered Fast Foods
- Can View About Hostel.
- Can change password of his Account.
- Can logout.

Case Model:

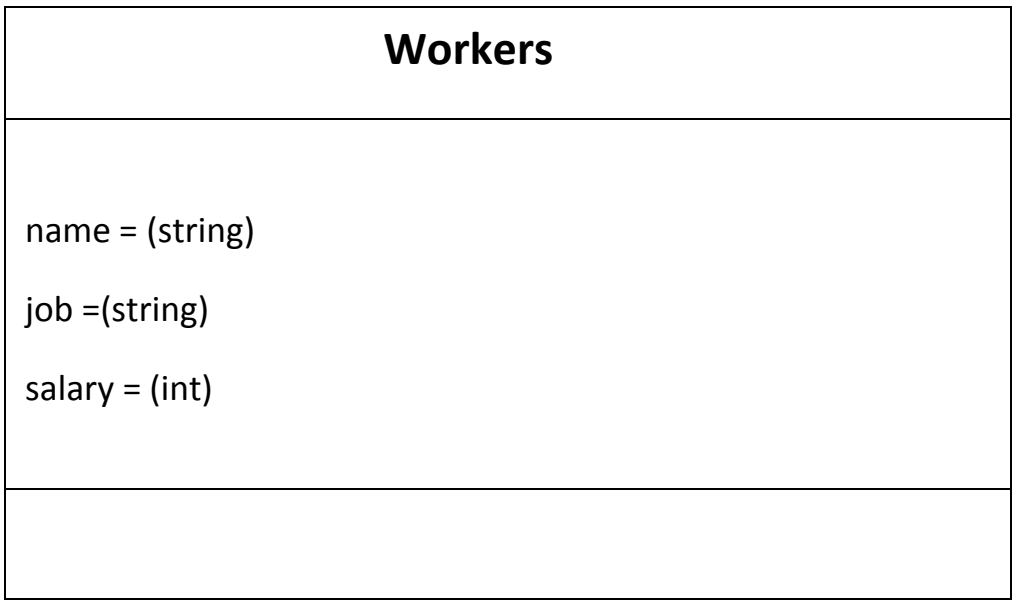

Add a Manager
Send Message To Manager
Receive SMS From Manager
View Rooms Detail and Residents
Owner
Add A Resident , Room and Worker
Send Message To Owner
Receive SMS From Owner and Complains
View Detail of Rooms , Residents and Workers
Manager
Get Allotment of A Room
Order Any Fast Food
View Detail of Foods , Rooms and Order Foods
Send Complain
Residents

Classes Model:

For Residents:



For Workers:



For Foods:

Foods
name = (string) price = (int) quantity = (int)

For Rooms:

Rooms
typeRoom = (string) priceRoom = (int) toatalRoom = (int) bookedRooms = (int) startingRoom = (int)

Web Service Detail:

@app.route("/")

mainLoginPage.html

Owner Pages

@app.route("/loginowner")

Owner/loginOwner.html

@app.route("/ownerhome")

Owner/owner.html

@app.route("/createAccountManager")

Owner/registerManager.html

@app.route("/sendMessage")

Owner/sendMessageToManager.html

@app.route("/recieveMessage")

Owner/recieveMessageOwner.html

@app.route("/residentsDetail")

Owner/residentDetail.html

@app.route("/workersDetail")

Owner/workersDetail.html

@app.route("/room")

Owner/roomsDetail.html

@app.route("/sendMessageByOwner", methods=['POST', 'GET'])

Owner/sendMessageToManager.html

@app.route("/owner", methods=['POST', 'GET'])

Owner/owner.html

or

Owner/loginOwner.html

@app.route("/profileowner")

Owner/profileOwner.html

@app.route("/profilemanagerOwner")

Owner/profileManager.html

@app.route("/signupmanager", methods=['POST', 'GET'])

Owner/owner.html

@app.route("/registerMyOwner")

Owner/registerOwner.html

@app.route("/myregisterOwner", methods=['POST', 'GET'])

Owner/loginOwner.html"

@app.route("/forgotpinowner")

Owner/forgotpinowner.html

@app.route("/changepasswordowner")

Owner/changeownerpin.html

@app.route("/changePinMyOwner", methods=['POST', 'GET'])

Owner/owner.html

Or:

Owner/changeownerpin.html

@app.route("/frogotPinOwner", methods=['POST', 'GET'])

Owner/loginOwner.html

or:

Owner/forgotpinowner.html

Manager Pages

@app.route("/profilemanager")

Manager/profileManager.html

@app.route("/loginmanager")

Manager/loginManager.html

@app.route("/managerhome")

Manager/manager.html

@app.route("/sendMessageManager")

Manager/sendMessageToOwner.html

@app.route("/recieveMessageManager")

Manager/recieveMessageManager.html

@app.route("/createAccountresident")

Manager/registerResident.html

@app.route("/registerResident", methods=['POST', 'GET'])

Manager/manager.html

@app.route("/addWorker")

Manager/WorkerAdd.html

@app.route("/addFood")

Manager/foodAdd.html

@app.route("/residents")

Manager/residentDetail.html

@app.route("/workers")

Manager/workersDetail.html

@app.route("/Rooms")

Manager/roomsDetail.html

@app.route("/foods")

Manager/foodDetail.html

@app.route("/deleteResident",methods=[‘POST’.’GET’])

Manager/residentDetail.html

@app.route("/deleteWorker",methods=[‘POST’.’GET’])

Manager/workersDetail.html

@app.route("/deleteRoom",methods=[‘POST’.’GET’])

Manager/roomsDetail.html

@app.route("/deleteFood",methods=[‘POST’.’GET’])

Manager/foodDetail.html

@app.route("/complains")

def Mycomplains():

Manager/recievedComplains.html

@app.route("/addworker", methods=['POST', 'GET'])

Manager/manager.html

@app.route("/manager", methods=['POST', 'GET'])

Manager/manager.html

or:

Manager/loginManager.html

@app.route("/sendMessageByManager", methods=['POST', 'GET'])

Manager/sendMessageToManager.html

@app.route("/addFastFood", methods=['POST', 'GET'])

Manager/foodDetail.html

@app.route("/changepasswordmanager")

Manager/changemanagerpin.html

@app.route("/forgotmanagerpin")

Manager/forgotpinmanager.html

@app.route("/changePinMyManager", methods=['POST', 'GET'])

Manager/manager.html

or:

Manager/changemanagerpin.html

@app.route("/frogotPinManager", methods=['POST', 'GET'])

Manager/loginManager.html

or:

Manager/forgotpinmanager.html

@app.route("/changinRoom")

Manager/Rooms.html

@app.route("/addanewmyRoom", methods=['POST', 'GET'])

Manager/roomsDetail.html

Login Resident

@app.route("/login")

Resident/loginResident.html

@app.route("/profileresident")

Resident/profileResident.html

@app.route("/resident")

Resident/resident.html

@app.route("/getRoom")

Resident/allotmentofRoom.html

@app.route("/orderfood")

Resident/orderFood.html

@app.route("/orderfooddetail")

Resident/orderedfoods.html

@app.route("/foodDetail")

Resident/foodDetails.html

@app.route("/sendComplains")

Resident/sendComplains.html

@app.route("/sendComplain", methods=['POST', 'GET'])

Resident/sendComplains.html

@app.route("/success", methods=['POST', 'GET'])

Resident/resident.html

Or:

Resident/loginResident.html

@app.route("/forgotpinresident")

Resident/changeresidentpin.html

@app.route("/changepinresident")

Resident/forgot-pin-resident.html

@app.route("/changePinMyResident", methods=['POST', 'GET'])

Resident/resident.html

or:

Resident/changeresidentpin.html

@app.route("/frogotPinResident", methods=['POST', 'GET'])

Resident/loginResident.html

or:

Resident/forgot-pin-resident.html

@app.route("/getnewRoom", methods=['POST', 'GET'])

Resident/resident.html

or:

Resident/allotmentofRoom.html

@app.route("/orderfoodnow", methods=['POST', 'GET'])

Resident/orderedfoods.html

or:

Resident/orderFood.html

Other People

@app.route("/peoplehome")

people.html

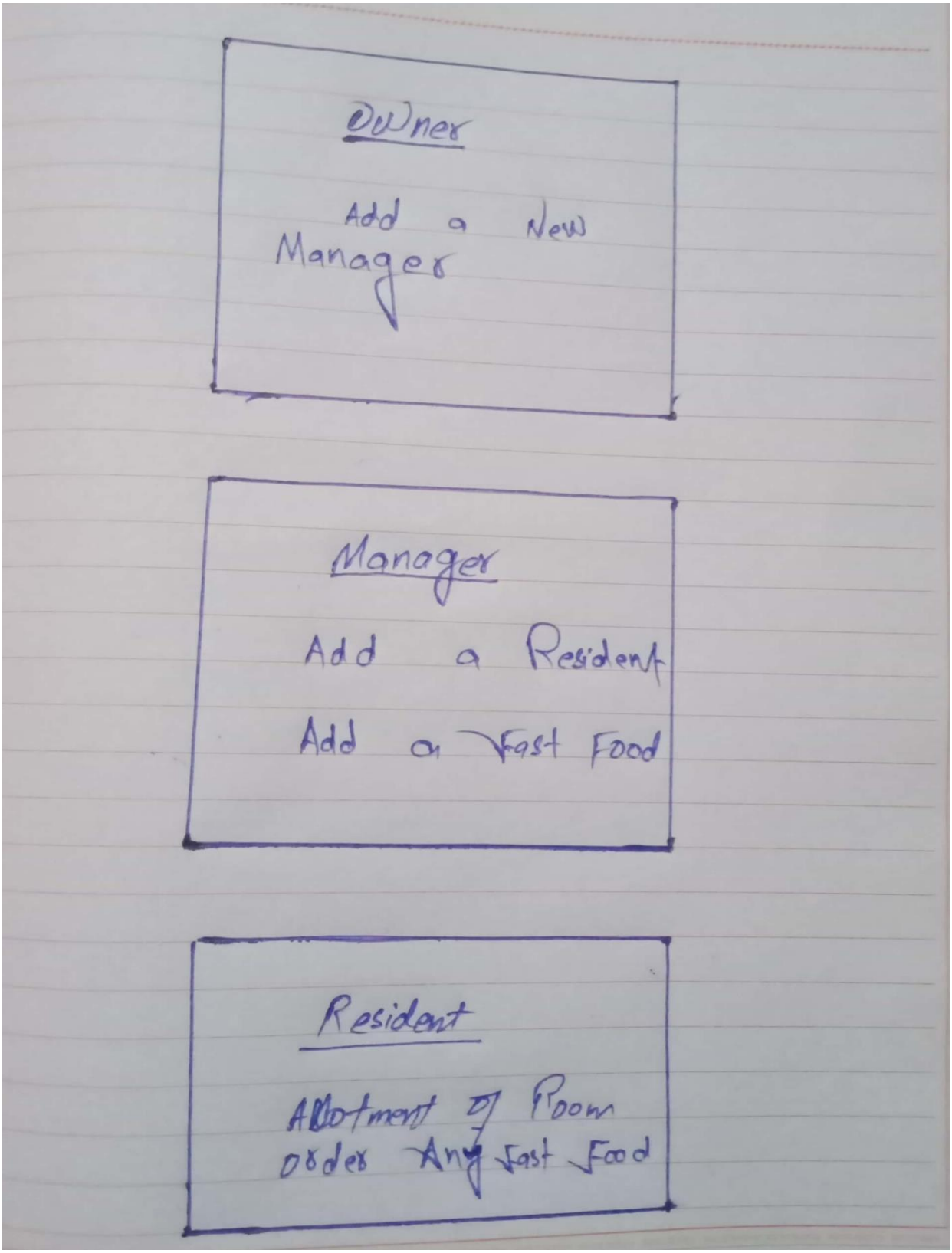
@app.route("/applyresidence")

ResidenceApply.html

@app.route("/applyjob")

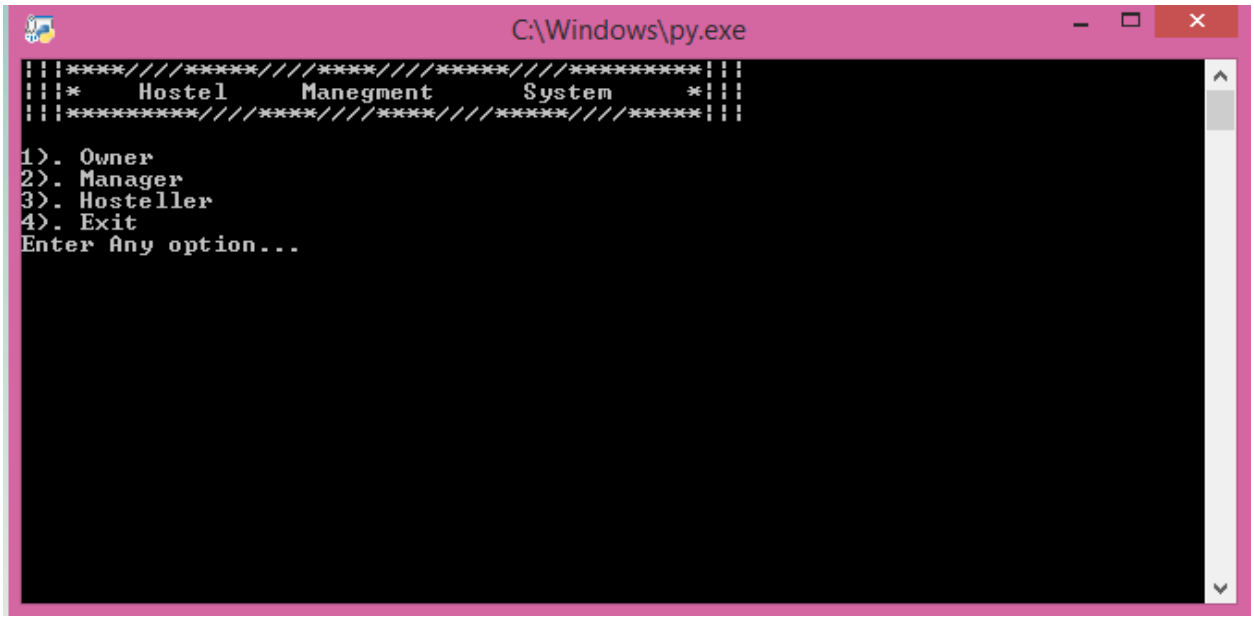
ApplyJob.html

Low Fidelity:

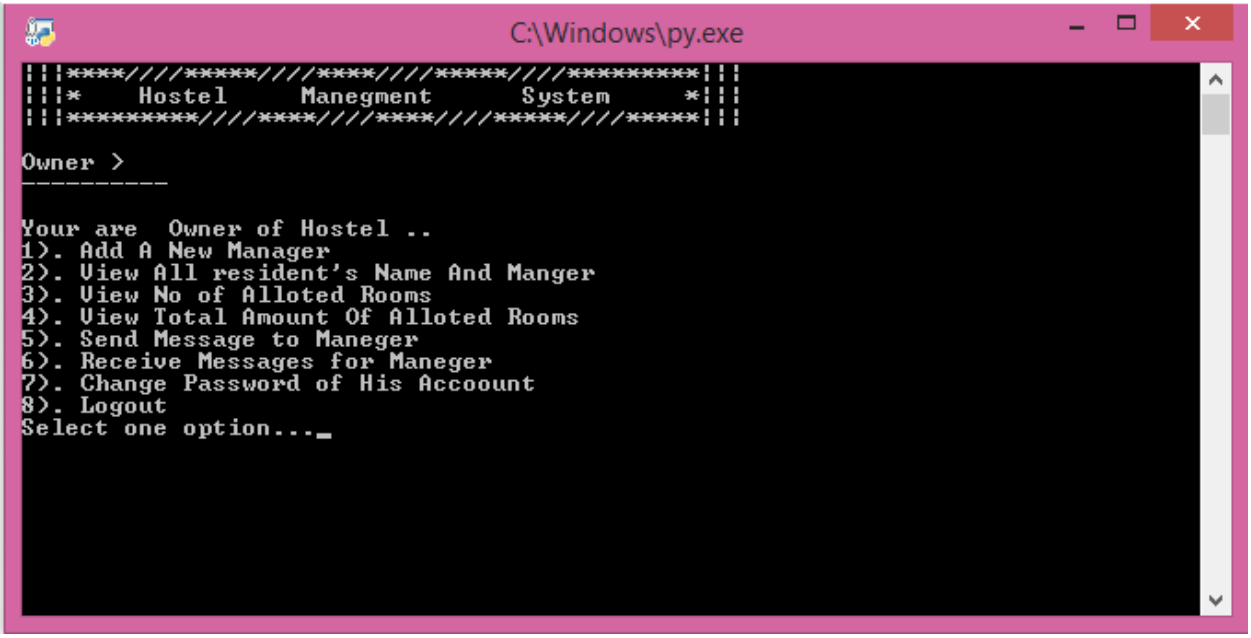


High Fidelity CLI:

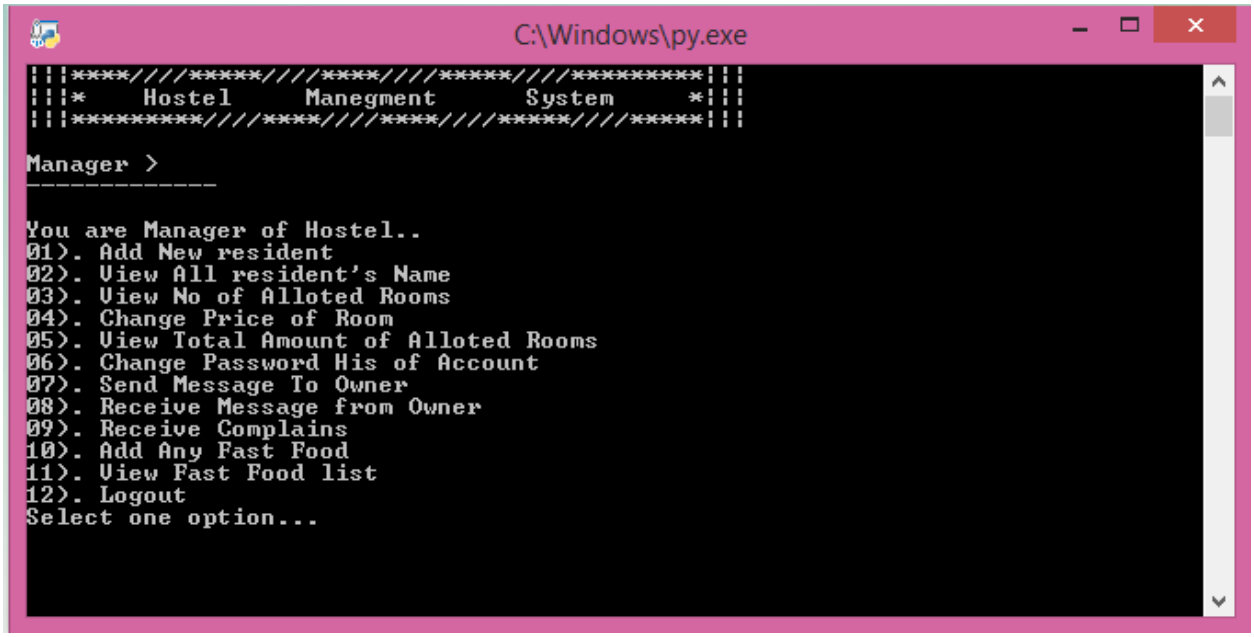
Main:



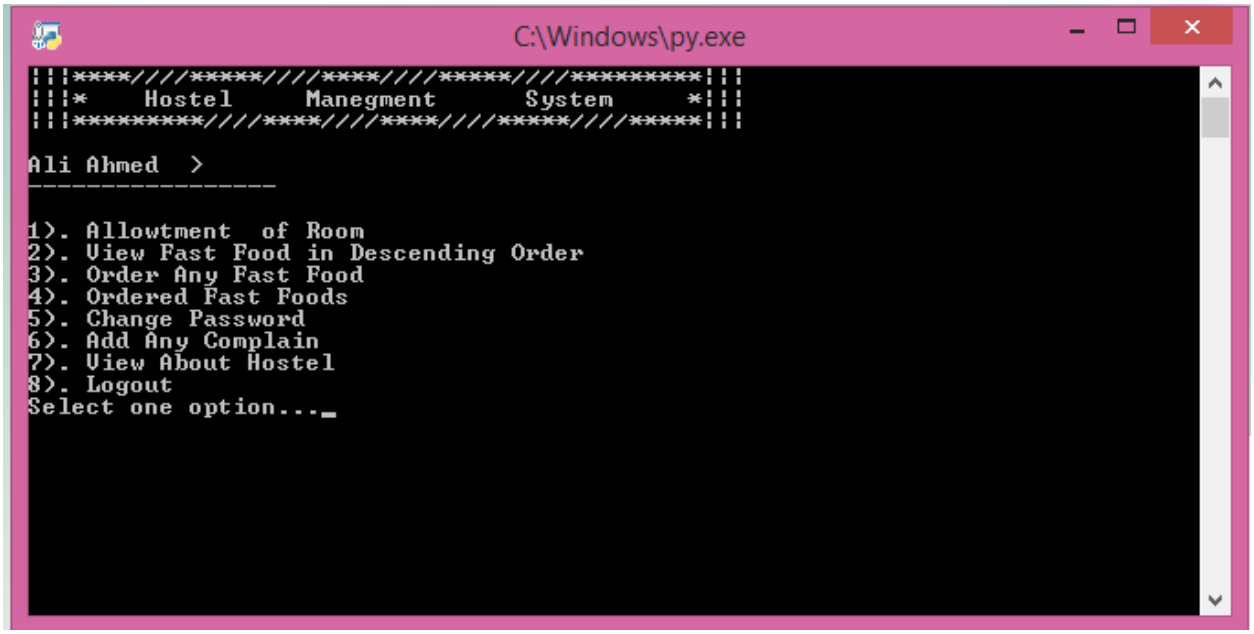
Owner Interface:



Manager Interface:

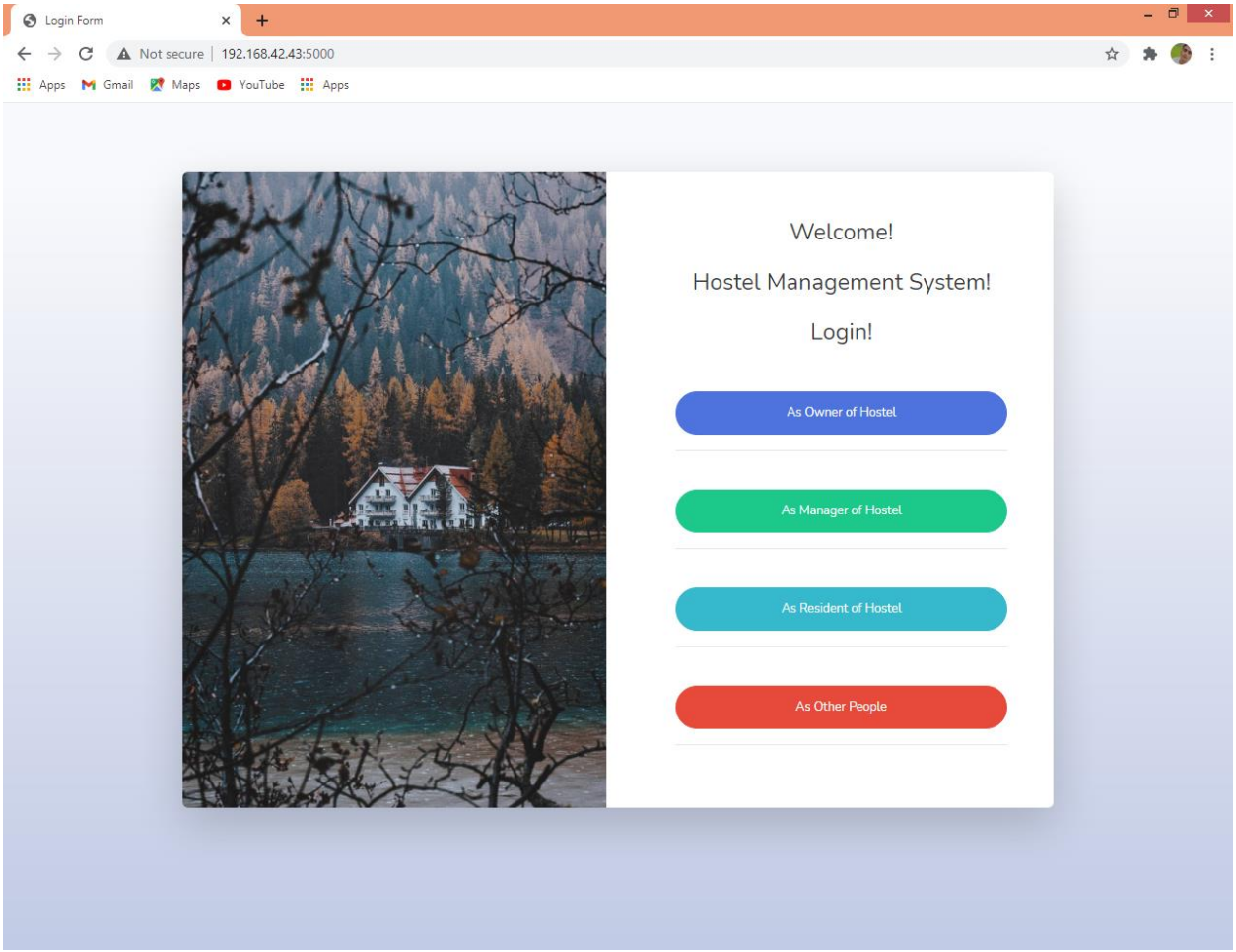


Resident Interface:

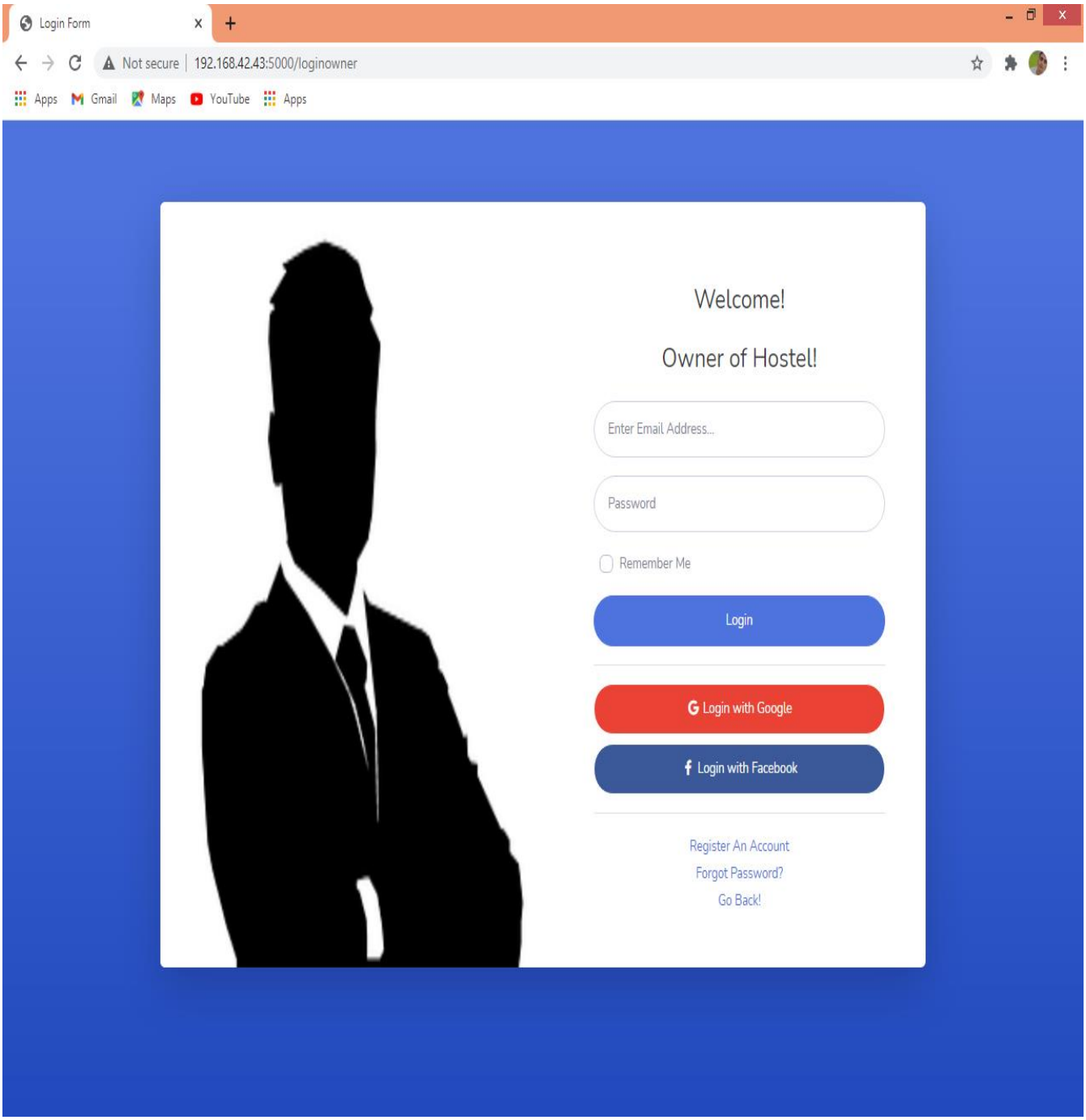


High Fidelity Web:

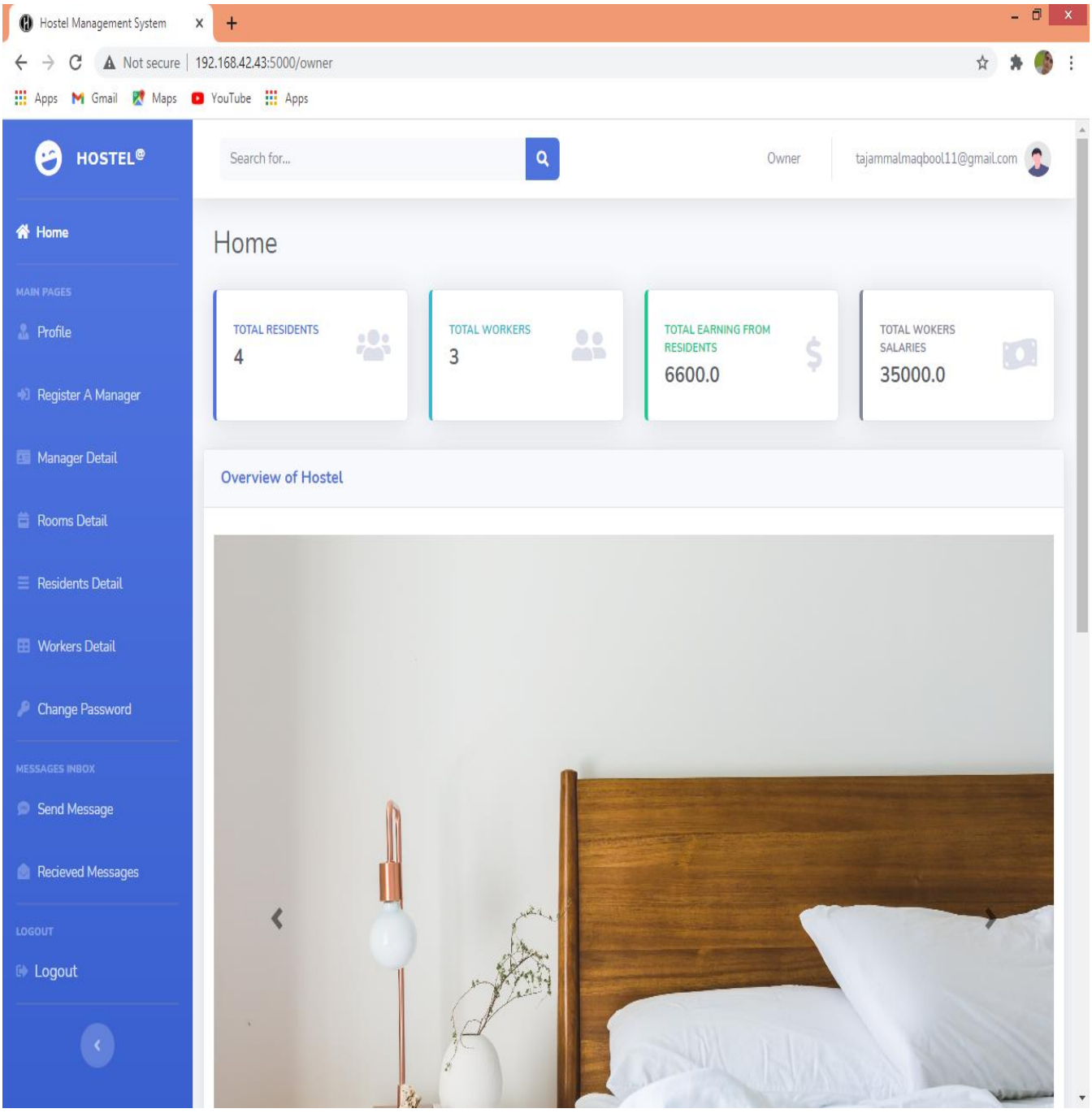
Main Login Page:

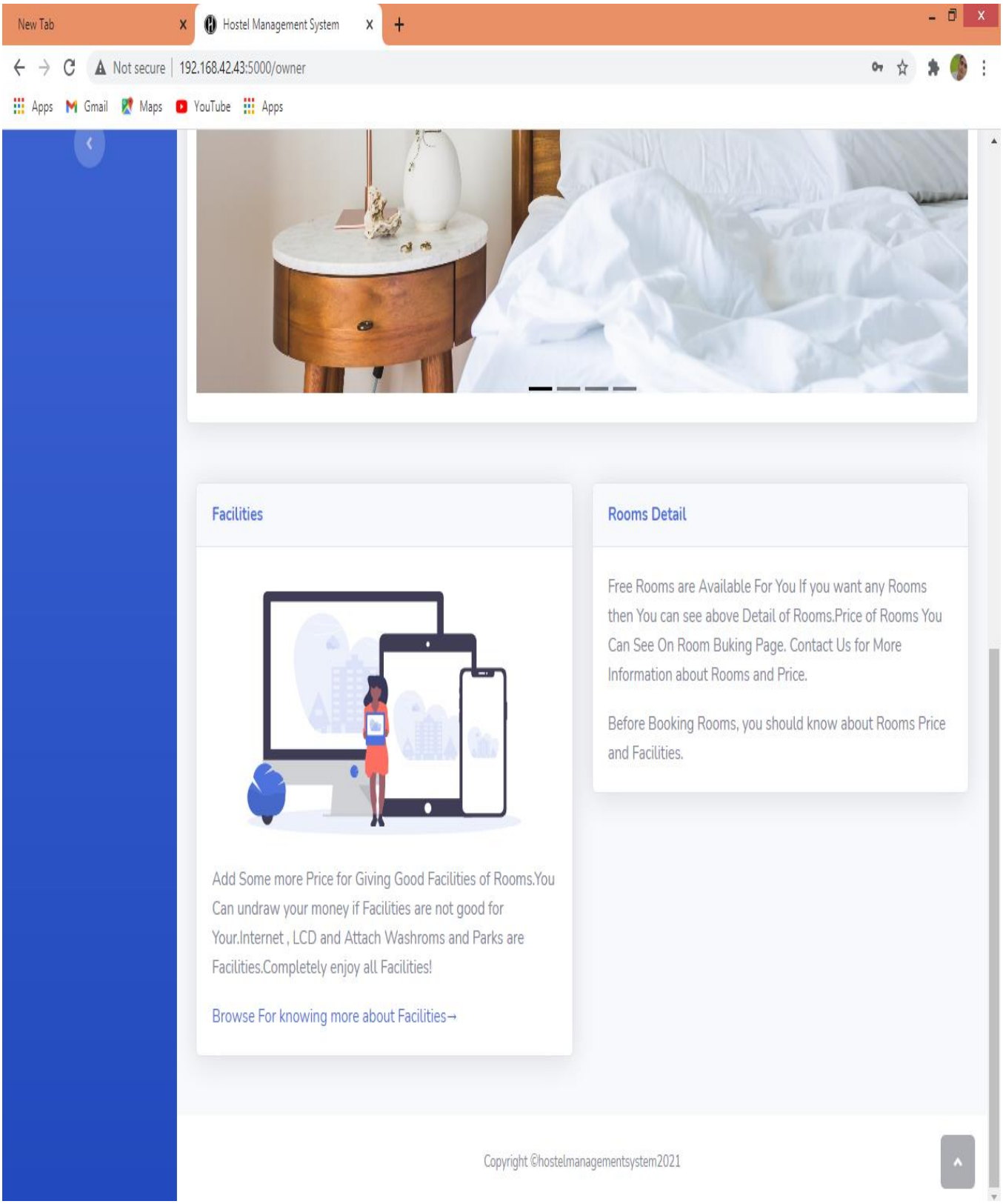


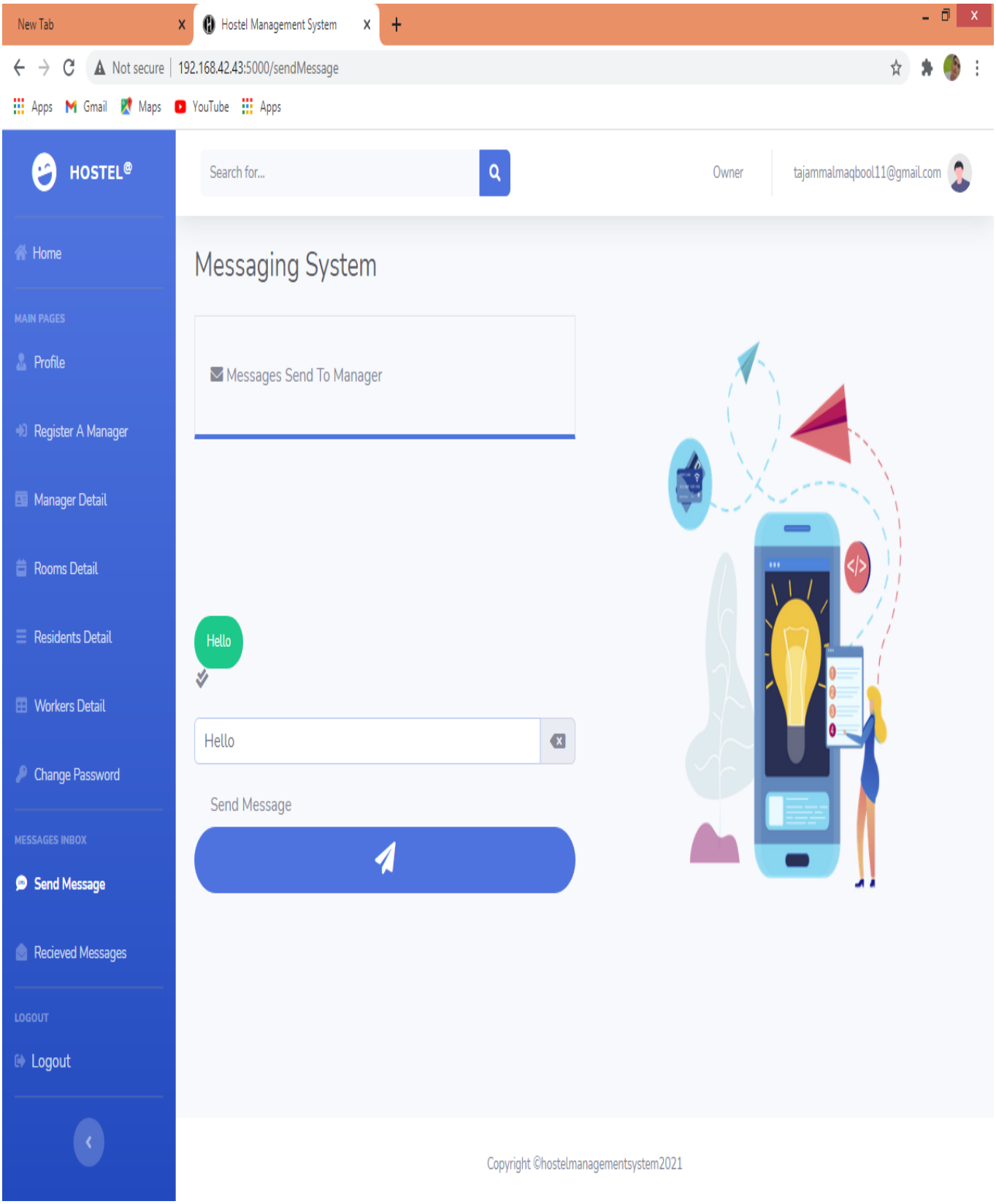
Owner Login Page:



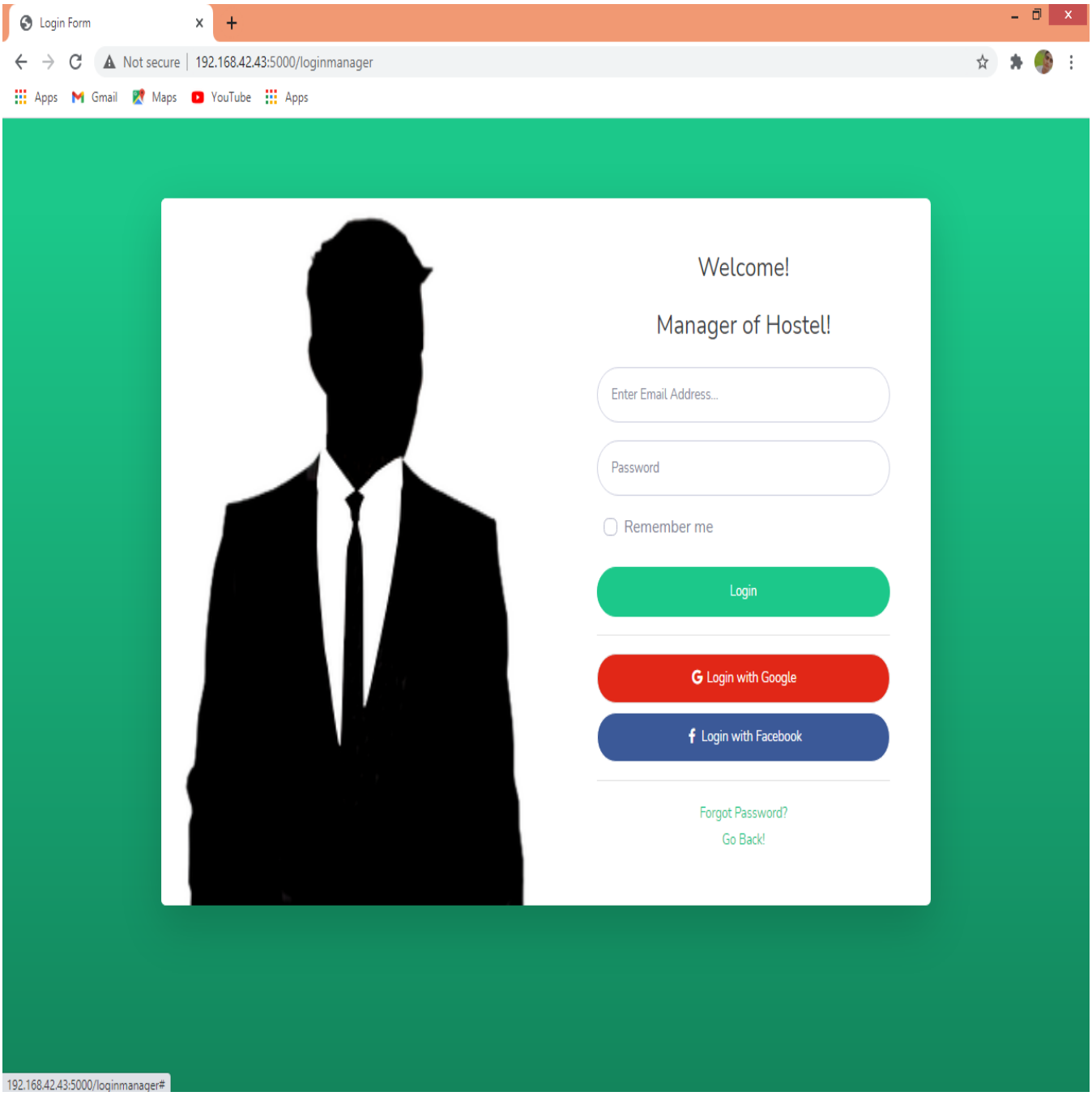
Owner Page:


Hostel Management System
Not secure 192.168.42.43:5000/owner
Apps Gmail Maps YouTube Apps
HOSTEL
Search for...
Owner
tajammalmaqbool11@gmail.com
Home
MAIN PAGES
Profile
Register A Manager
Manager Detail
Rooms Detail
Residents Detail
Workers Detail
Change Password
MESSAGES INBOX
Send Message
Recieved Messages
LOGOUT
Logout
Home
TOTAL RESIDENTS
4
TOTAL WORKERS
3
TOTAL EARNING FROM RESIDENTS
6600.0
TOTAL WOKERS SALARIES
35000.0
Overview of Hostel

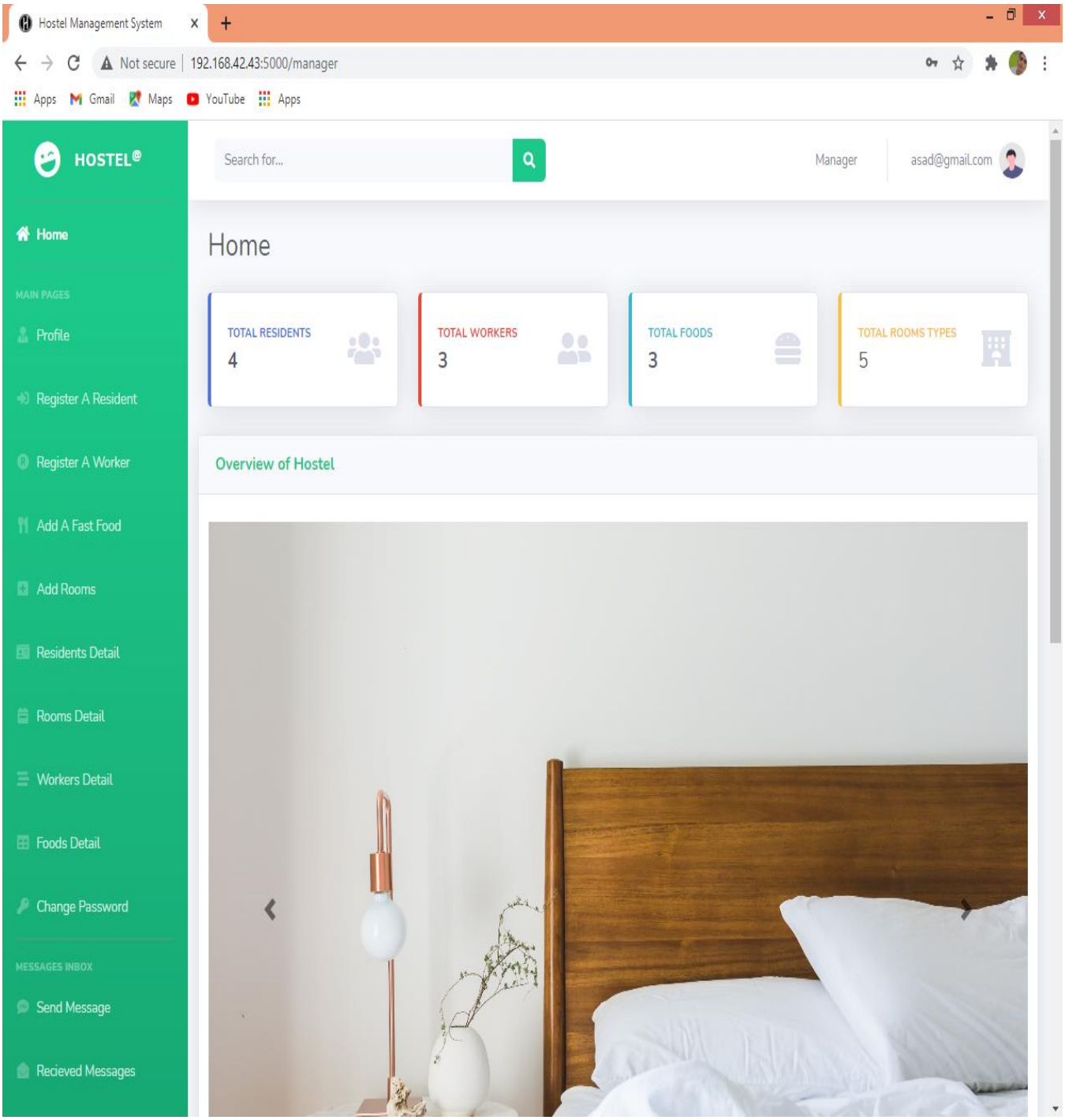

New Tab
Hostel Management System
Not secure | 192.168.42.43:5000/owner
Apps
Gmail
Maps
YouTube
Apps
Facilities
Rooms Detail
Free Rooms are Available For You If you want any Rooms then You can see above Detail of Rooms.Price of Rooms You Can See On Room Buking Page. Contact Us for More Information about Rooms and Price.
Before Booking Rooms, you should know about Rooms Price and Facilities.
Add Some more Price for Giving Good Facilities of Rooms.You Can undraw your money if Facilities are not good for Your.Internet , LCD and Attach Washroms and Parks are Facilities.Completely enjoy all Facilities!
Browse For knowing more about Facilities→
Copyright ©hostelmanagementsystem2021

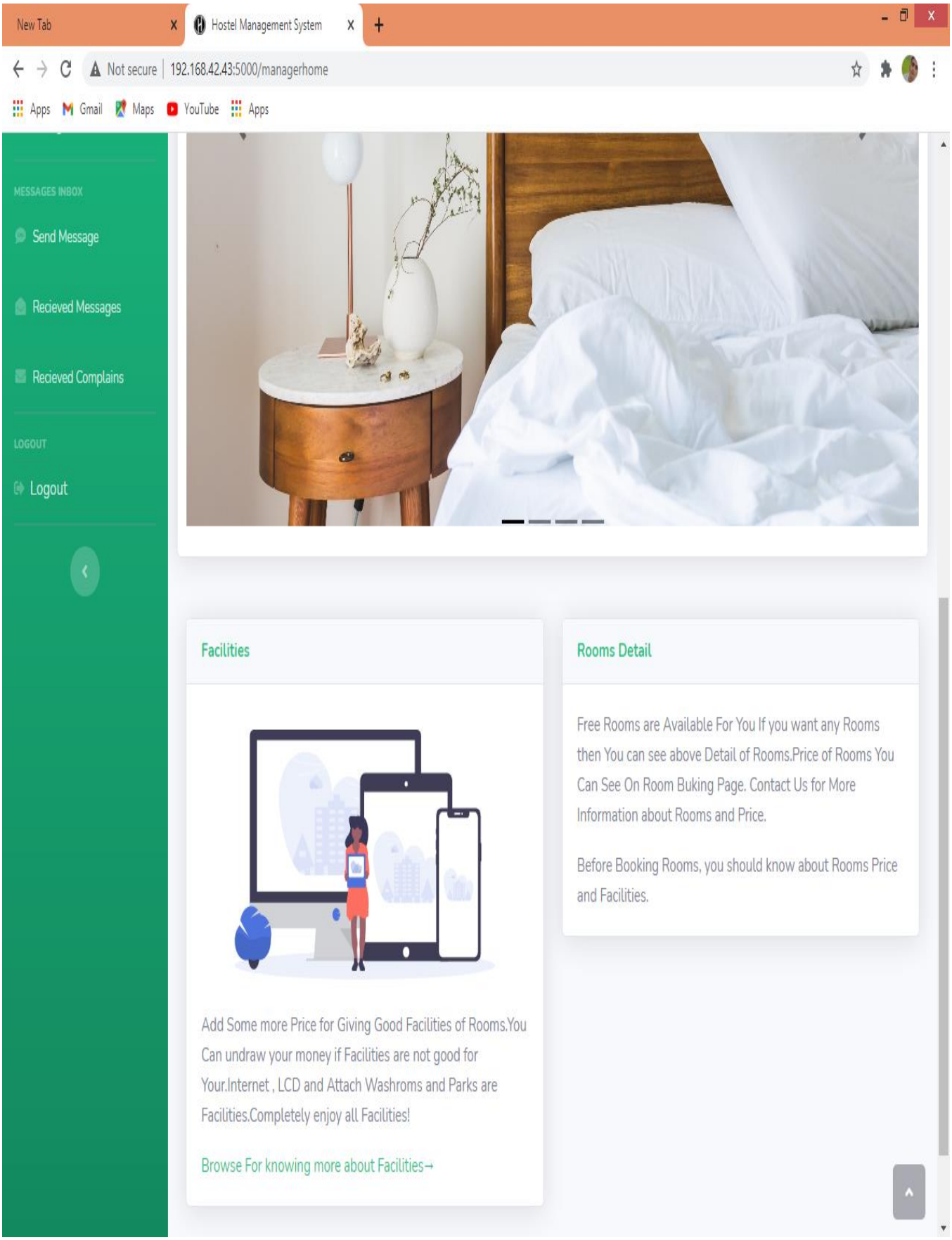

New Tab
Hostel Management System
Not secure | 192.168.42.43:5000/sendMessage
Apps
Gmail
Maps
YouTube
Apps
HOSTEL
Search for...
Owner
tajammalmaqbool11@gmail.com
Home
MAIN PAGES
Profile
Register A Manager
Manager Detail
Rooms Detail
Residents Detail
Workers Detail
Change Password
MESSAGES INBOX
Send Message
Recieved Messages
LOGOUT
Logout
Messaging System
Messages Send To Manager
Hello
Hello
Send Message
Copyright ©hostelmanagementsystem2021

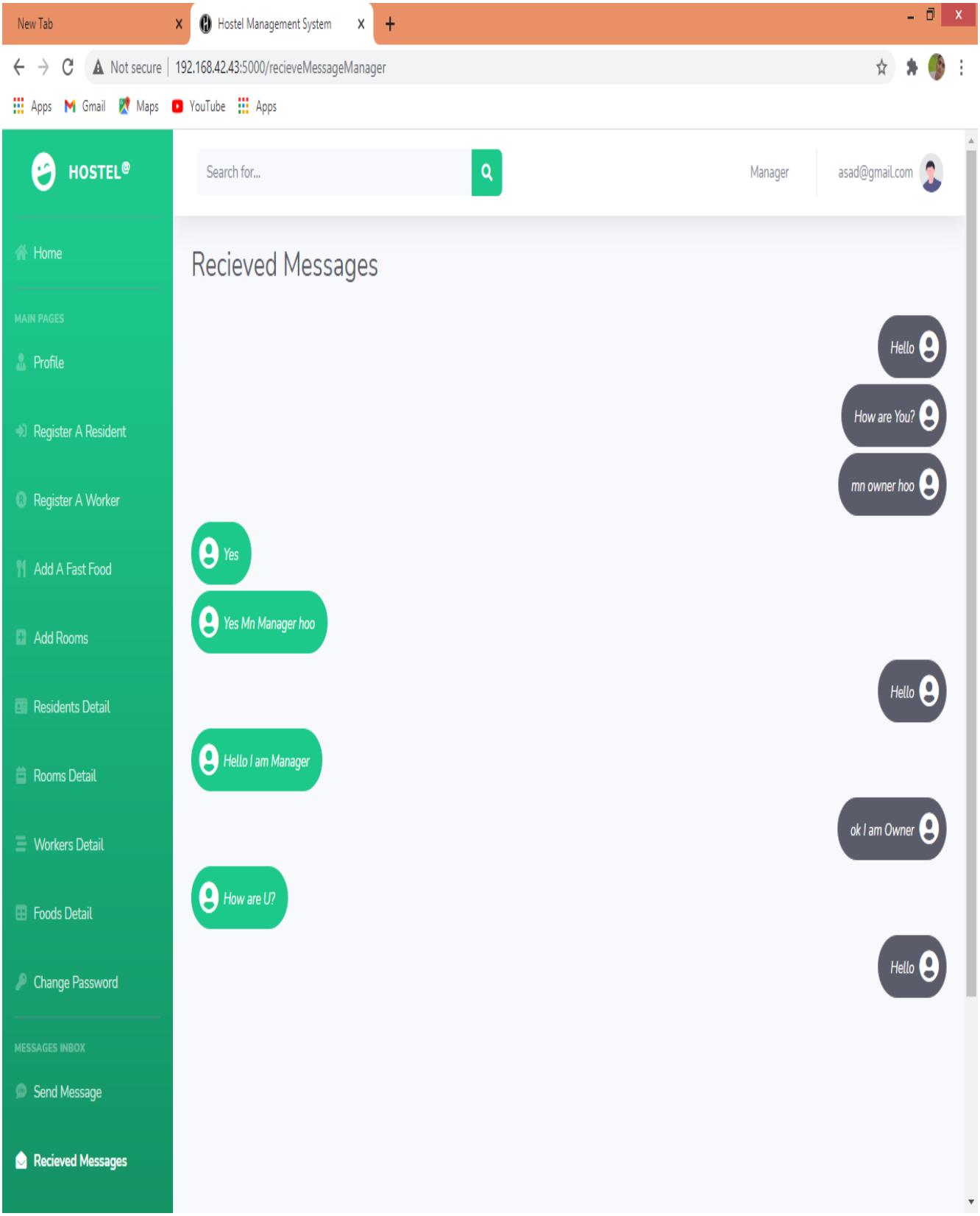
Manager Login Page:

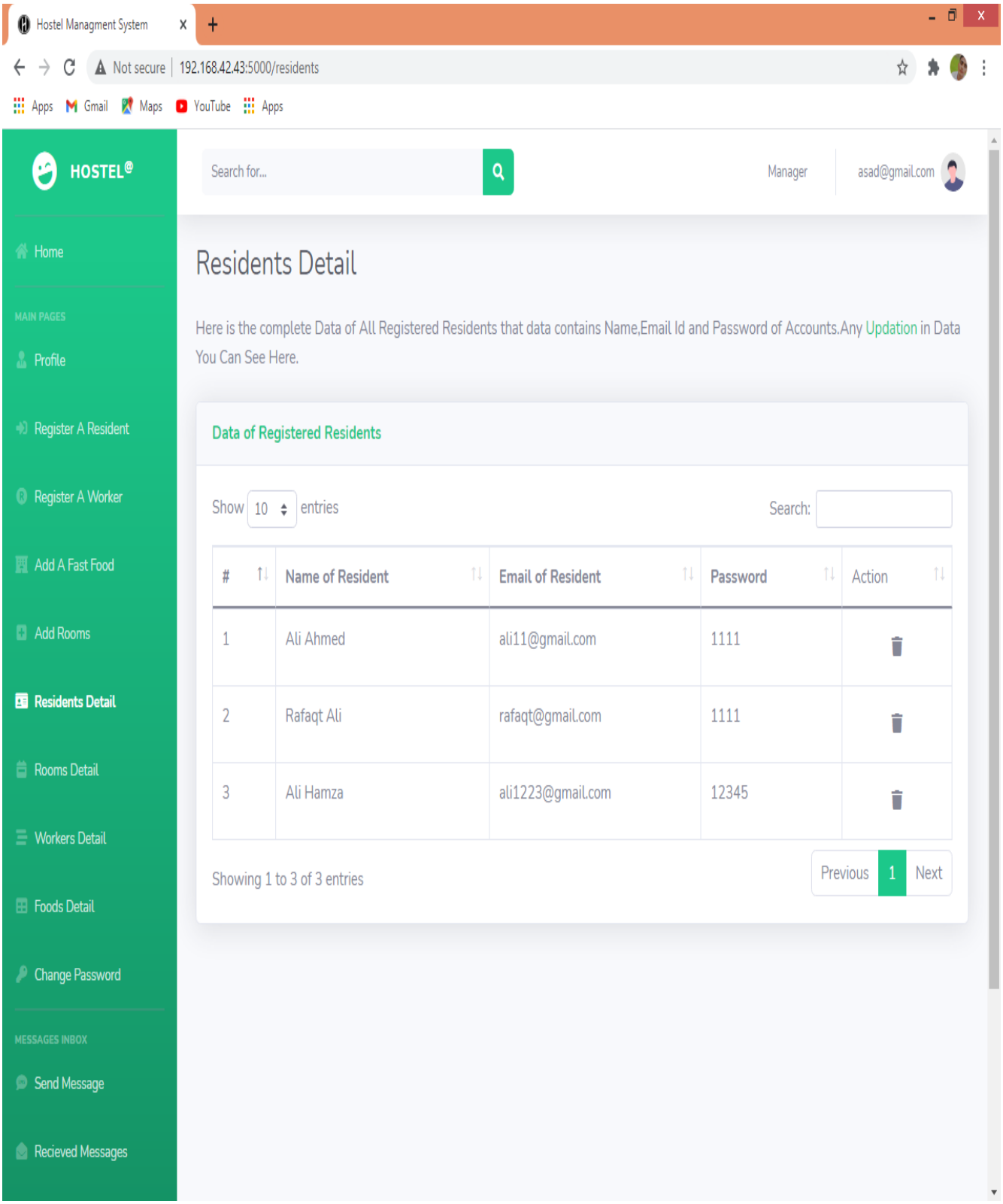


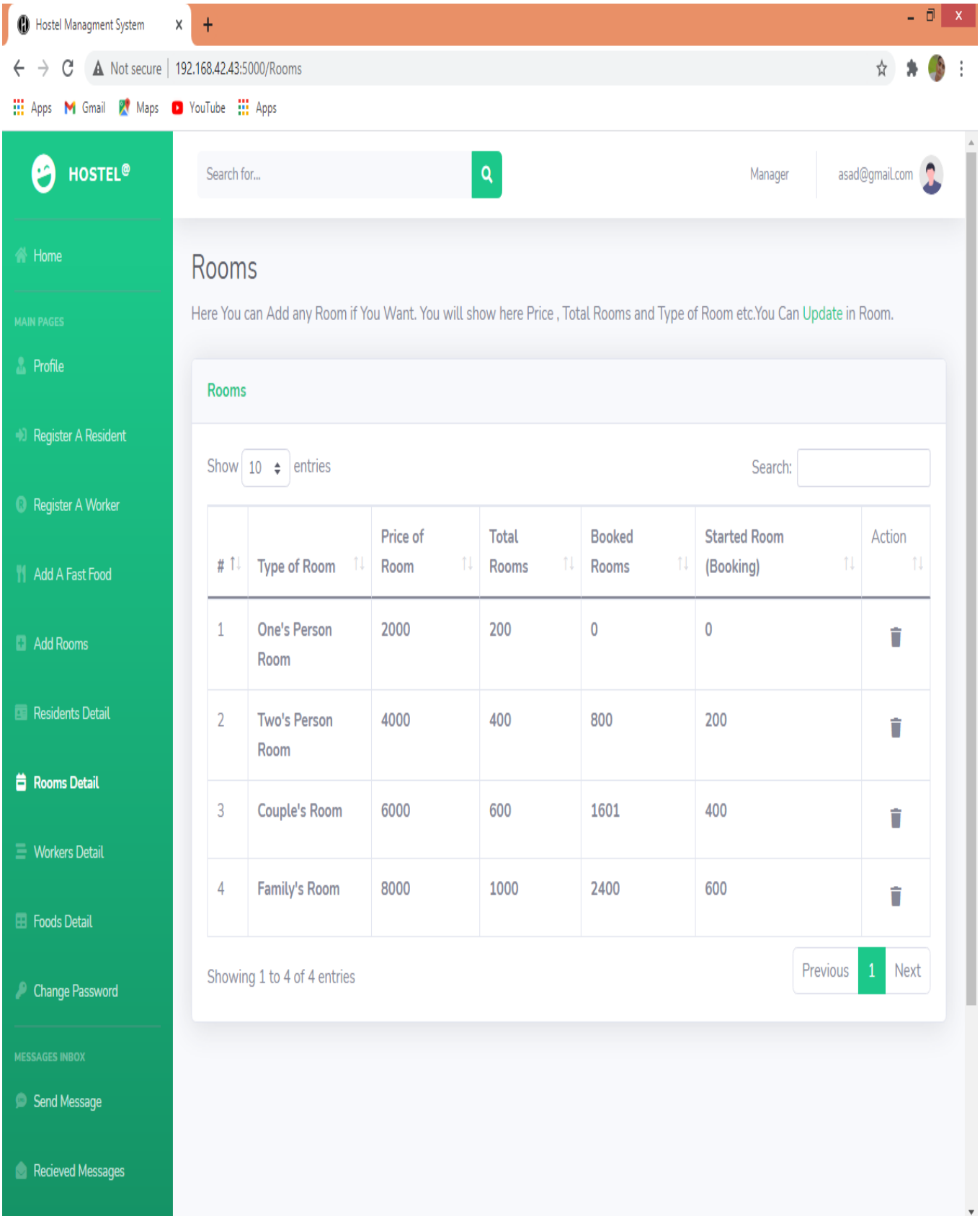
Manager Page:

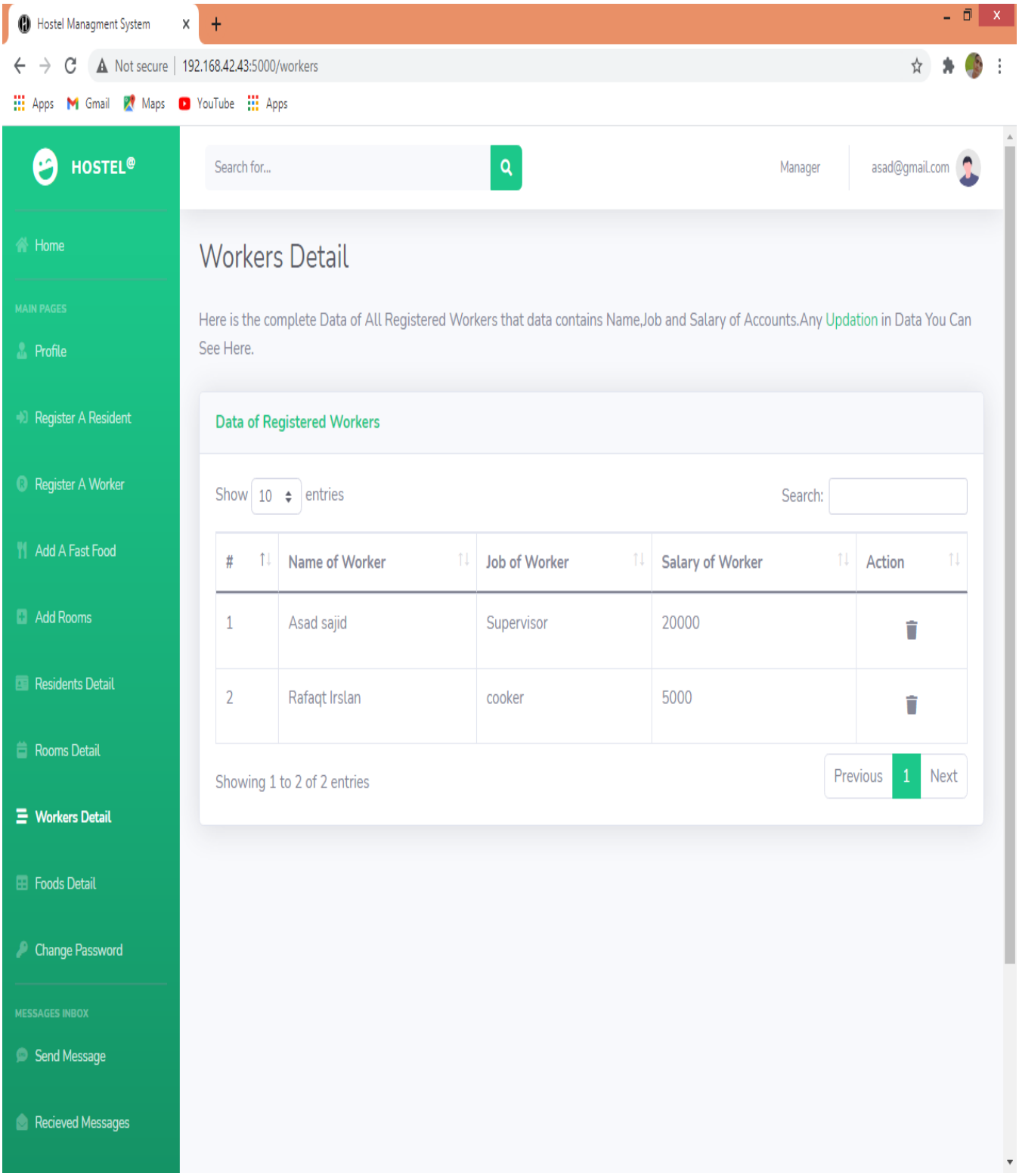


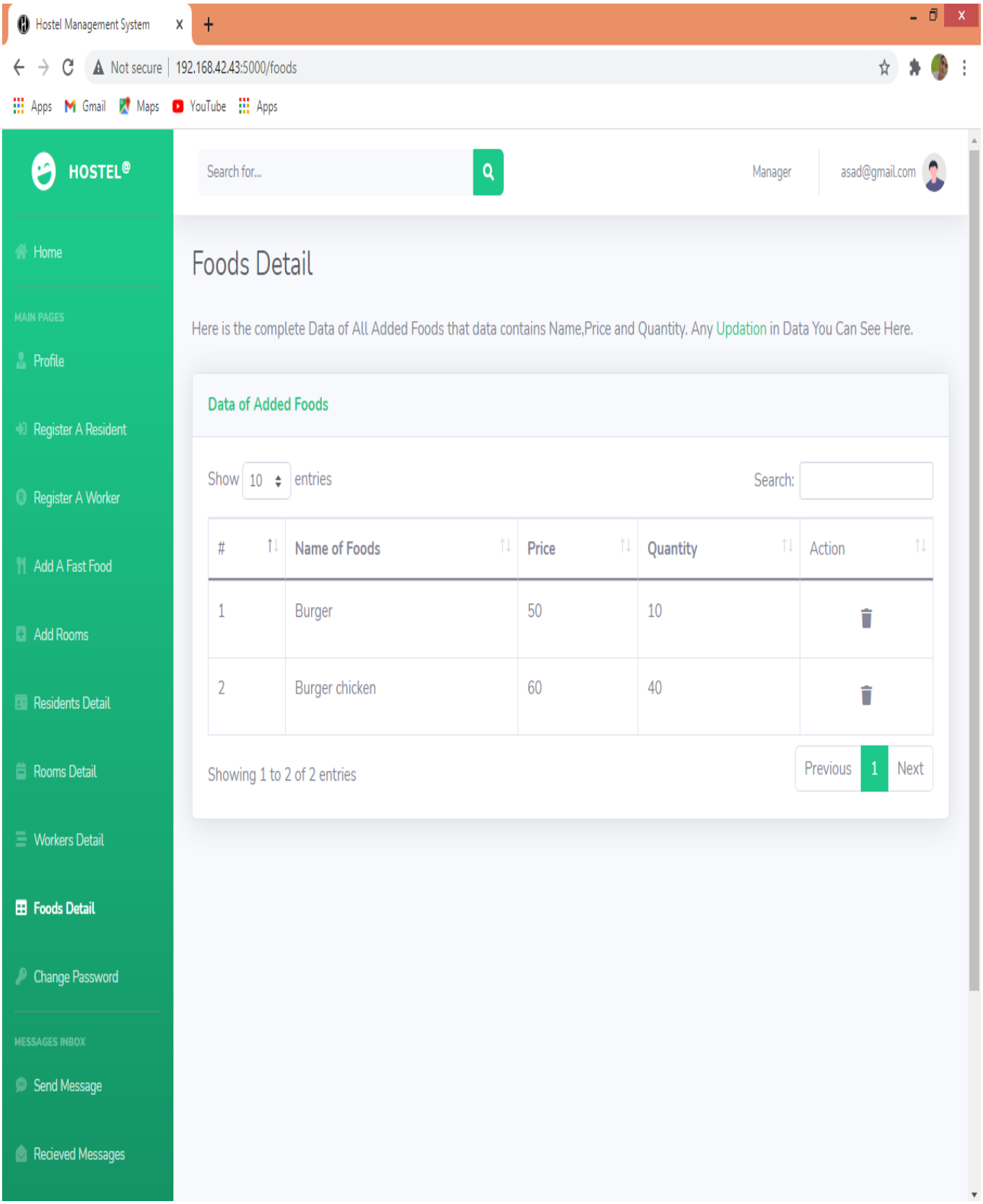

New Tab
Hostel Management System
Not secure | 192.168.42.43:5000/managerhome
Apps
Gmail
Maps
YouTube
Apps
MESSAGES INBOX
Send Message
Recieved Messages
Recieved Complains
LOGOUT
Logout
Facilities
Add Some more Price for Giving Good Facilities of Rooms.You Can undraw your money if Facilities are not good for Your.Internet , LCD and Attach Washroms and Parks are Facilities.Completely enjoy all Facilities!
Browse For knowing more about Facilities→
Rooms Detail
Free Rooms are Available For You If you want any Rooms then You can see above Detail of Rooms.Price of Rooms You Can See On Room Buking Page. Contact Us for More Information about Rooms and Price.
Before Booking Rooms, you should know about Rooms Price and Facilities.


New Tab
Hostel Management System
Not secure
192.168.42.43:5000/recieveMessageManager
Apps
Gmail
Maps
YouTube
Apps
HOSTEL@
Search for...
Manager
asad@gmail.com
Home
MAIN PAGES
Profile
Register A Resident
Register A Worker
Add A Fast Food
Add Rooms
Residents Detail
Rooms Detail
Workers Detail
Foods Detail
Change Password
MESSAGES INBOX
Send Message
Recieved Messages
Recieved Messages
Hello
How are You?
mn owner hoo
Yes
Yes Mn Manager hoo
Hello
Hello I am Manager
ok I am Owner
How are U?
Hello

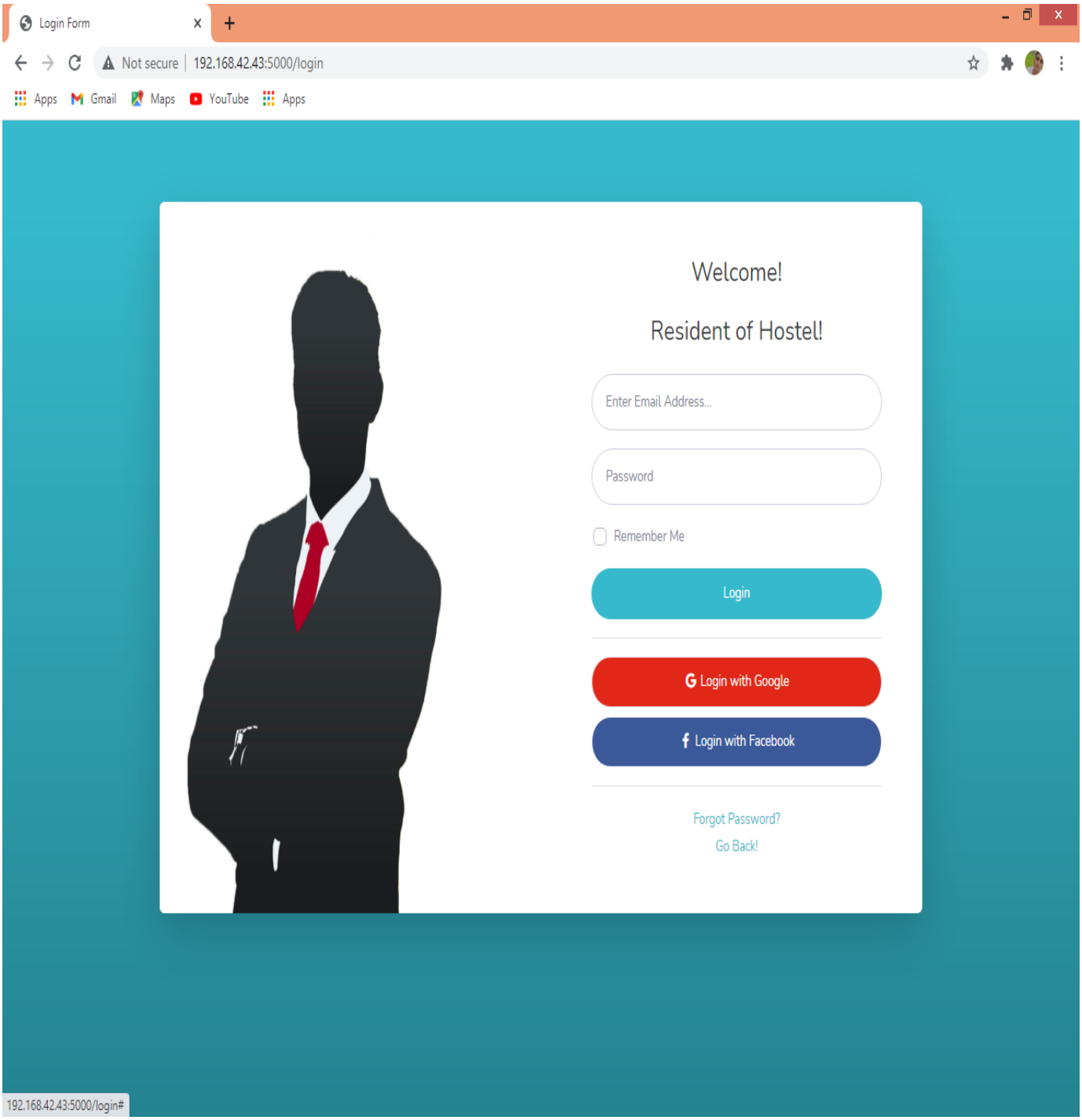

Hostel Managment System
Not secure 192.168.42.43:5000/residents
Apps Gmail Maps YouTube Apps
HOSTEL
Search for...
Manager
asad@gmail.com
Home
MAIN PAGES
Profile
Register A Resident
Register A Worker
Add A Fast Food
Add Rooms
Residents Detail
Rooms Detail
Workers Detail
Foods Detail
Change Password
MESSAGES INBOX
Send Message
Recieved Messages
Residents Detail
Here is the complete Data of All Registered Residents that data contains Name,Email Id and Password of Accounts.Any Updation in Data You Can See Here.
Data of Registered Residents
Show 10 entries
Search:
Name of Resident Email of Resident Password Action
1 Ali Ahmed ali11@gmail.com 1111
2 Rafaqt Ali rafaqt@gmail.com 1111
3 Ali Hamza ali1223@gmail.com 12345
Showing 1 to 3 of 3 entries
Previous 1 Next


Hostel Managment System
Not secure 192.168.42.43:5000/Rooms
Apps Gmail Maps YouTube Apps
HOSTEL
Search for...
Manager
asad@gmail.com
Home
MAIN PAGES
Profile
Register A Resident
Register A Worker
Add A Fast Food
Add Rooms
Residents Detail
Rooms Detail
Workers Detail
Foods Detail
Change Password
MESSAGES INBOX
Send Message
Recieved Messages
Rooms
Here You can Add any Room if You Want. You will show here Price , Total Rooms and Type of Room etc.You Can Update in Room.
Rooms
Show 10 entries
Search:
Type of Room Price of Room Total Rooms Booked Rooms Started Room (Booking) Action
1 One's Person Room 2000 200 0 0
2 Two's Person Room 4000 400 800 200
3 Couple's Room 6000 600 1601 400
4 Family's Room 8000 1000 2400 600
Showing 1 to 4 of 4 entries
Previous 1 Next

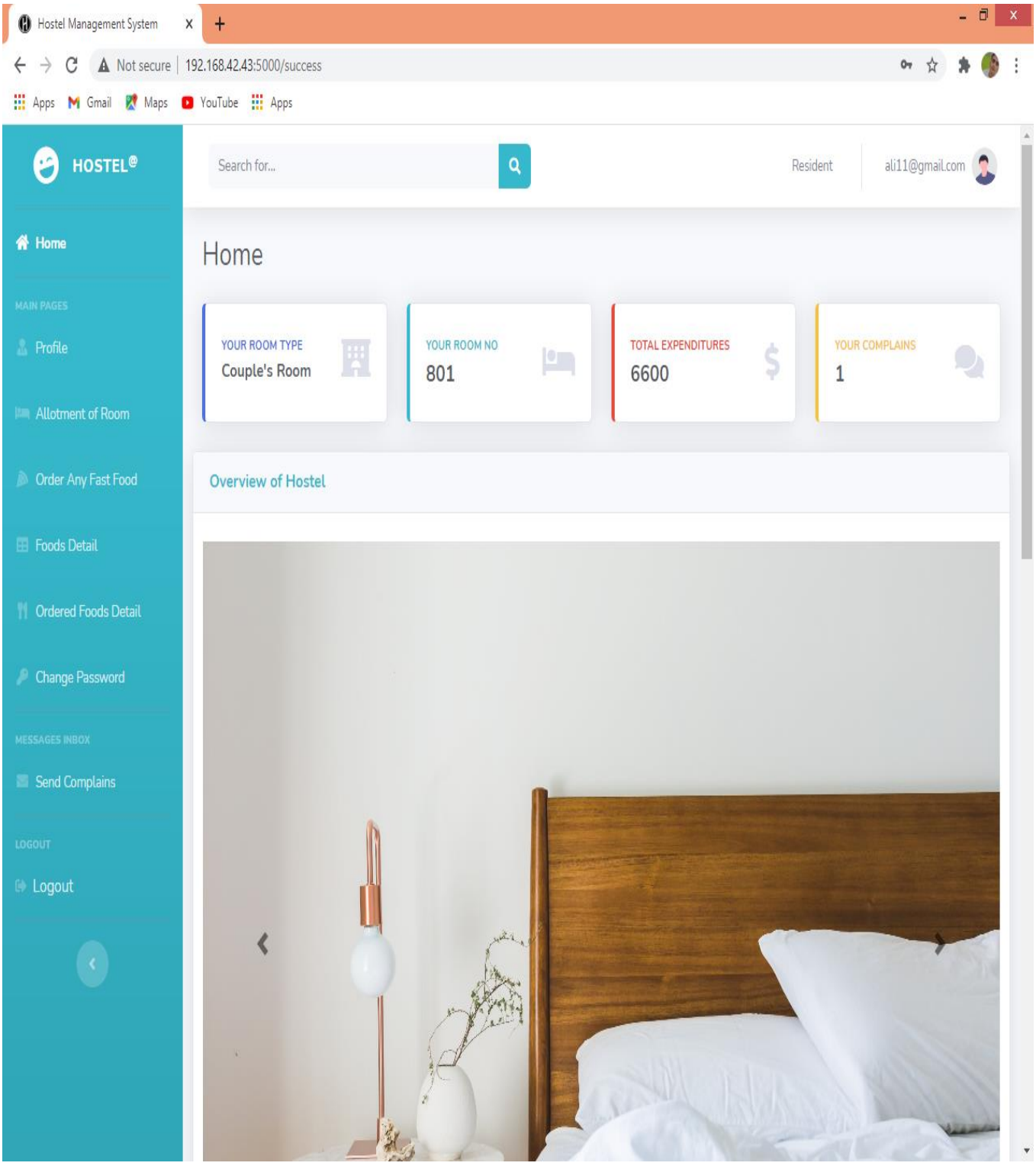

Hostel Managment System
Not secure | 192.168.42.43:5000/workers
Apps Gmail Maps YouTube Apps
HOSTEL@
Search for...
Manager
asad@gmail.com
Home
MAIN PAGES
Profile
Register A Resident
Register A Worker
Add A Fast Food
Add Rooms
Residents Detail
Rooms Detail
Workers Detail
Foods Detail
Change Password
MESSAGES INBOX
Send Message
Recieved Messages
Workers Detail
Here is the complete Data of All Registered Workers that data contains Name,Job and Salary of Accounts.Any Updation in Data You Can See Here.
Data of Registered Workers
Show 10 entries
Search:
Name of Worker Job of Worker Salary of Worker Action
1 Asad sajid Supervisor 20000
2 Rafaqt Irslan cooker 5000
Showing 1 to 2 of 2 entries
Previous 1 Next

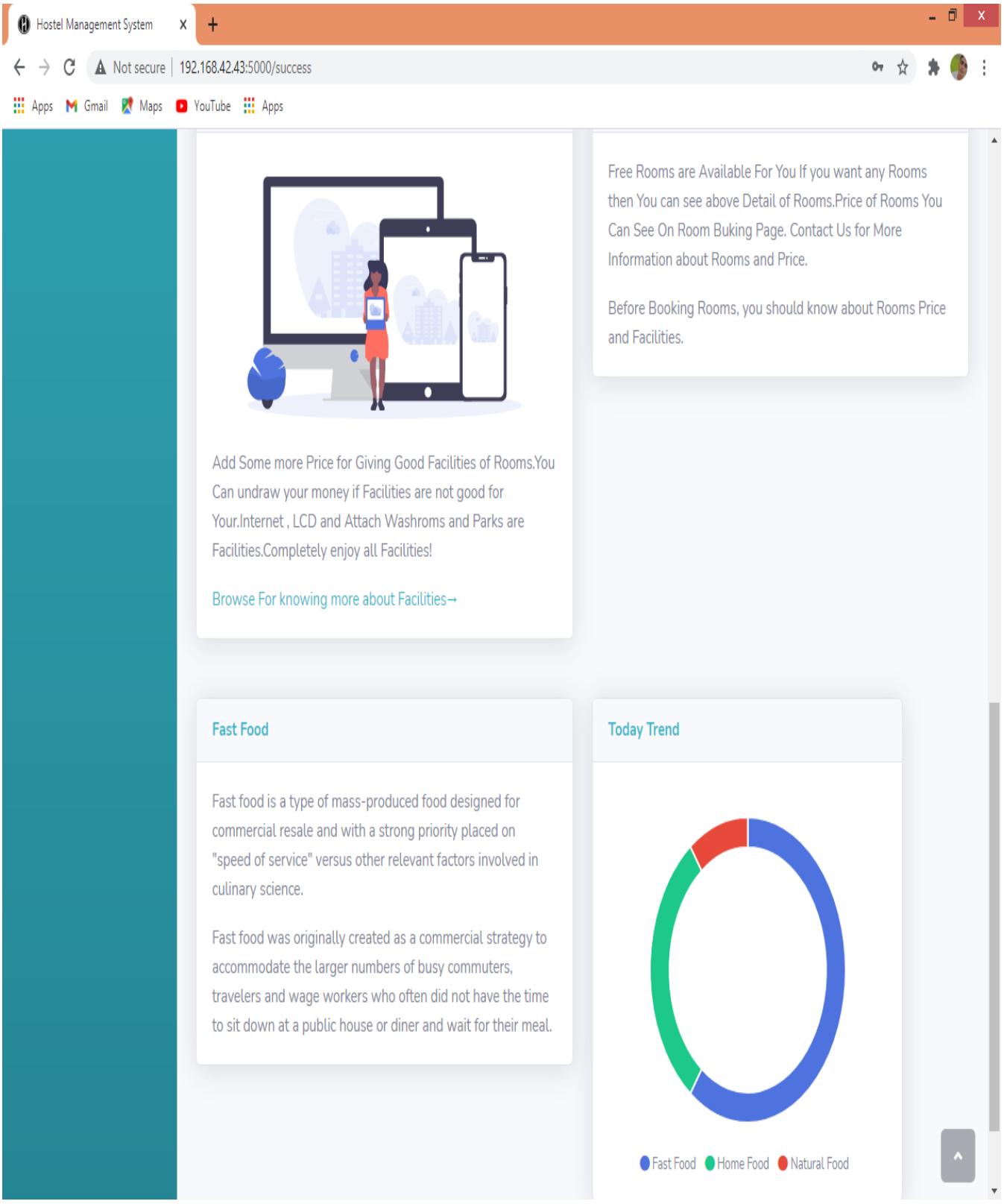

Hostel Management System
Not secure 192.168.42.43:5000/foods
Apps Gmail Maps YouTube Apps
HOSTEL
Search for...
Manager
asad@gmail.com
Home
MAIN PAGES
Profile
Register A Resident
Register A Worker
Add A Fast Food
Add Rooms
Residents Detail
Rooms Detail
Workers Detail
Foods Detail
Change Password
MESSAGES INBOX
Send Message
Recieved Messages
Foods Detail
Here is the complete Data of All Added Foods that data contains Name,Price and Quantity. Any Updation in Data You Can See Here.
Data of Added Foods
Show 10 entries
Search:
Name of Foods Price Quantity Action
1 Burger 50 10
2 Burger chicken 60 40
Showing 1 to 2 of 2 entries
Previous 1 Next

Resident Login Page:

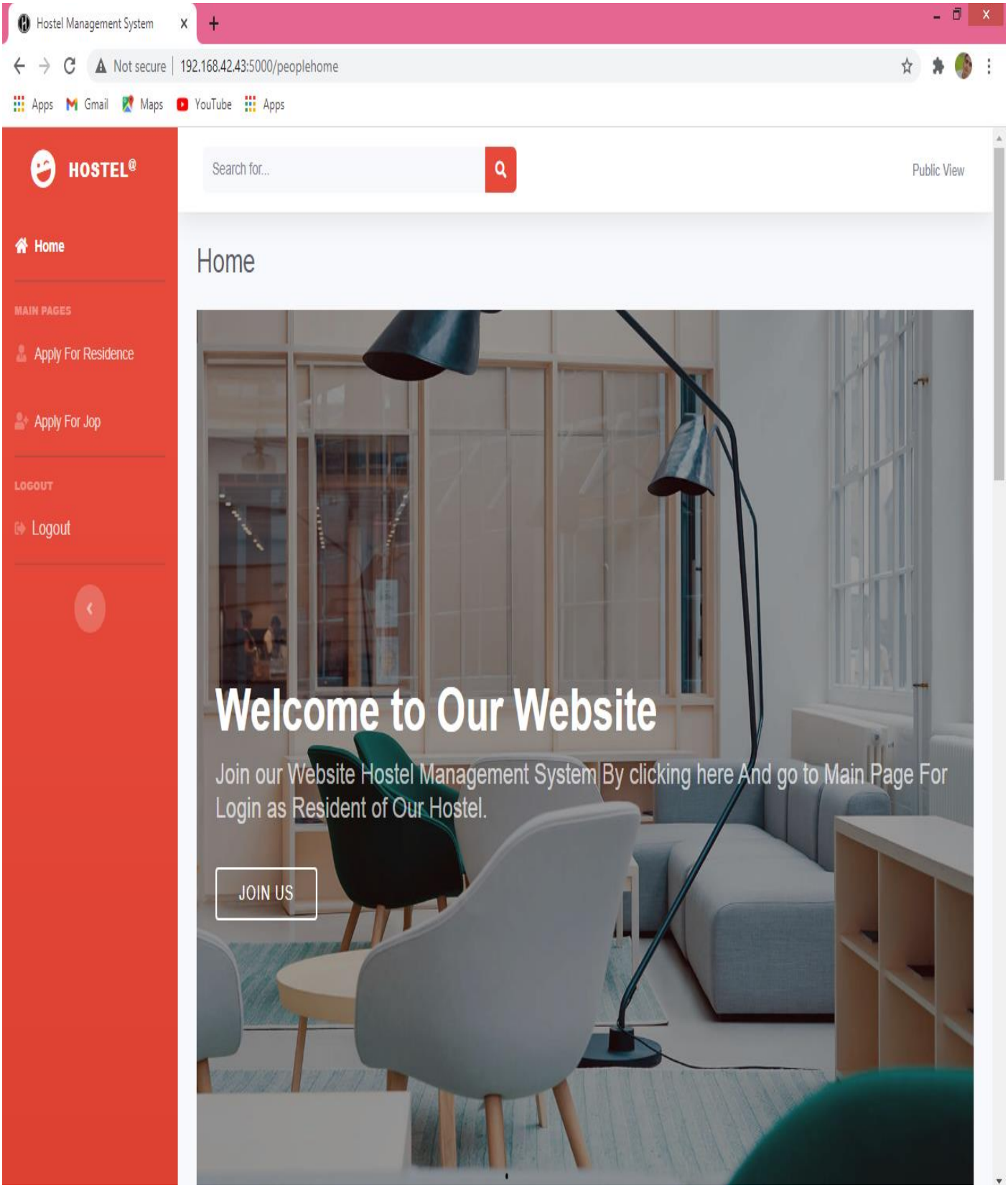


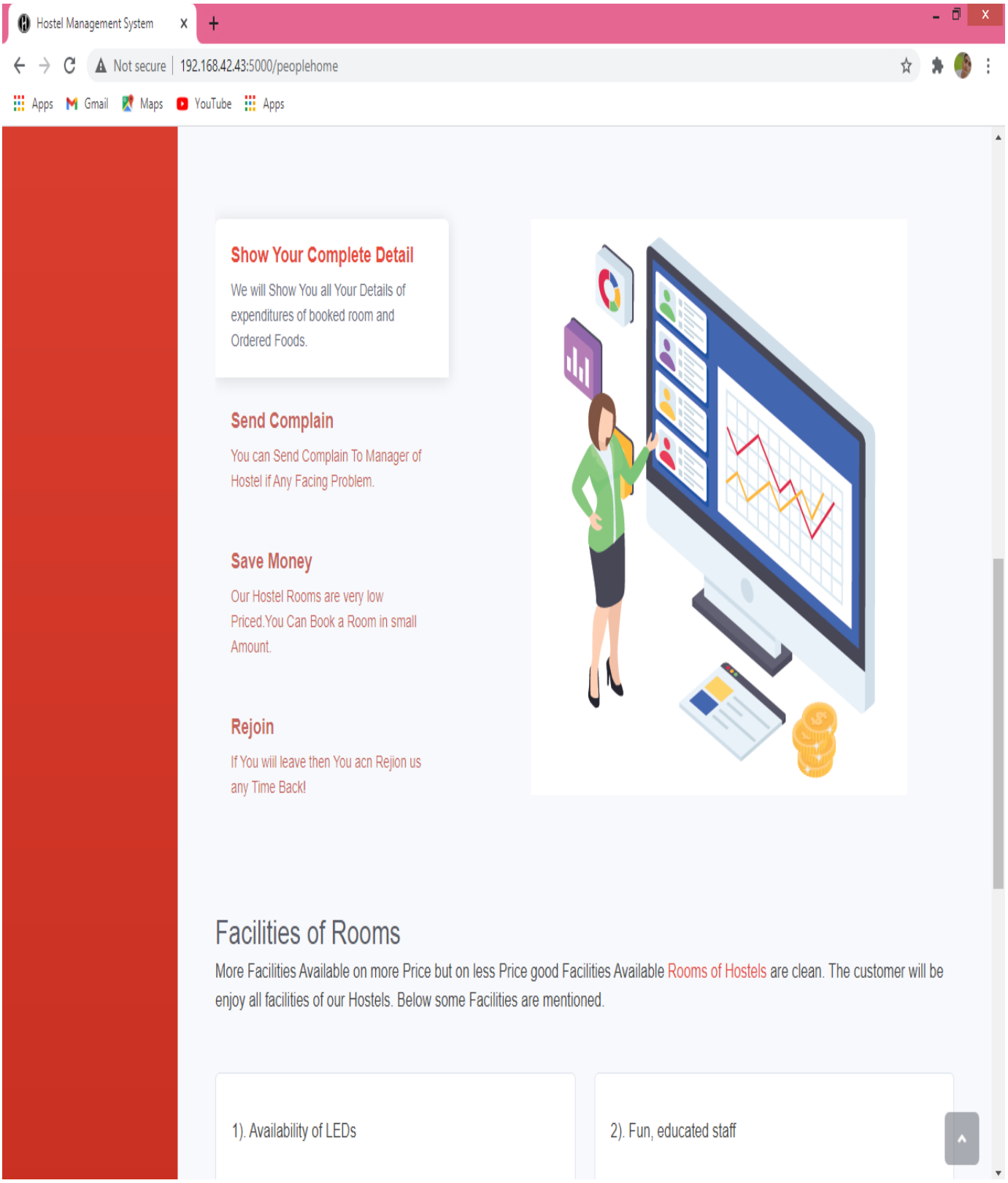
Resident Page:

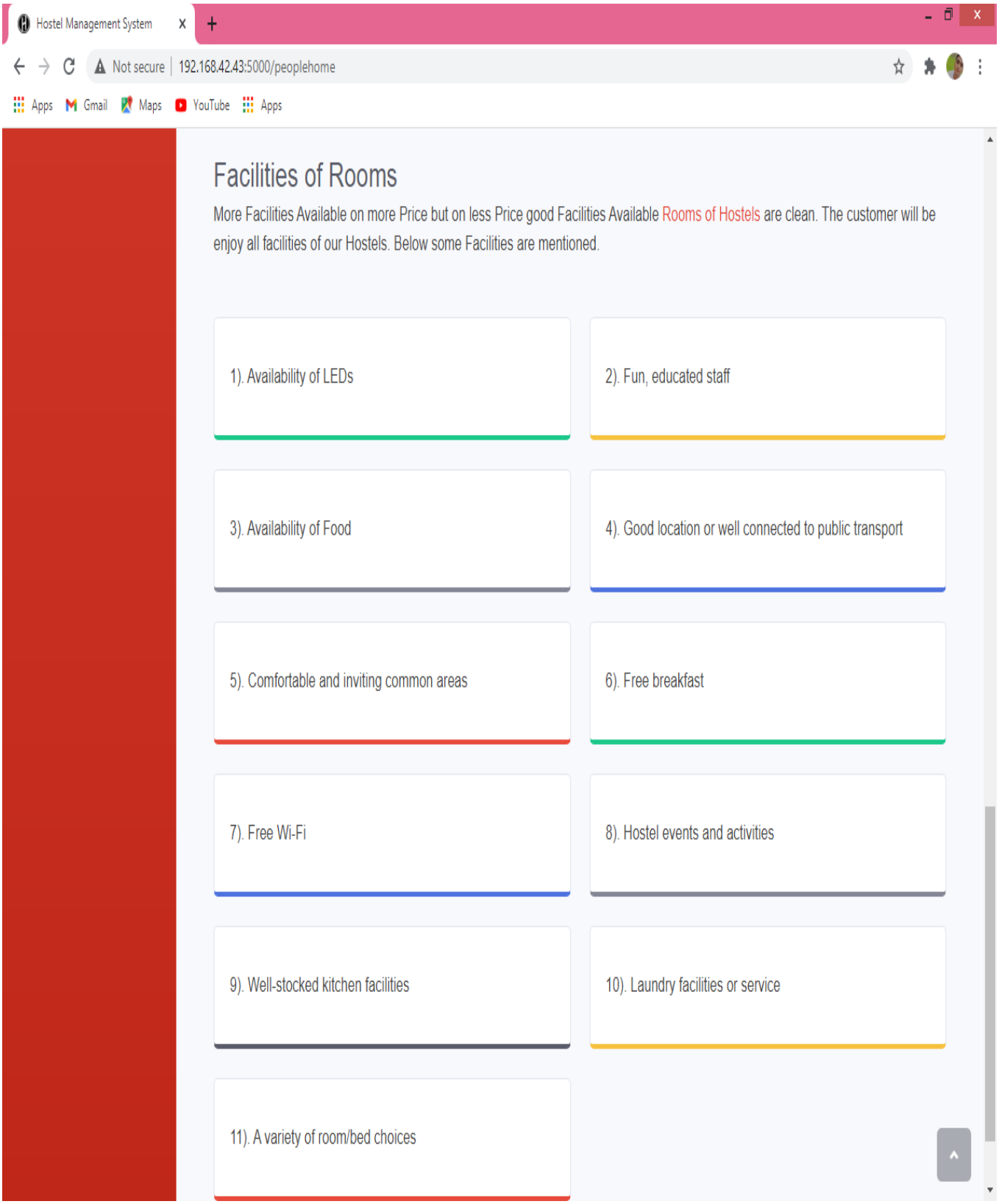



Hostel Management System
Not secure | 192.168.42.43:5000/success
Apps Gmail Maps YouTube Apps
Free Rooms are Available For You If you want any Rooms then You can see above Detail of Rooms.Price of Rooms You Can See On Room Buking Page. Contact Us for More Information about Rooms and Price.
Before Booking Rooms, you should know about Rooms Price and Facilities.
Add Some more Price for Giving Good Facilities of Rooms.You Can undraw your money if Facilities are not good for Your.Internet , LCD and Attach Washroms and Parks are Facilities.Completely enjoy all Facilities!
Browse For knowing more about Facilities→
Fast Food
Fast food is a type of mass-produced food designed for commercial resale and with a strong priority placed on "speed of service" versus other relevant factors involved in culinary science.
Fast food was originally created as a commercial strategy to accommodate the larger numbers of busy commuters, travelers and wage workers who often did not have the time to sit down at a public house or diner and wait for their meal.
Today Trend
Fast Food
Home Food
Natural Food

Other People:




Hostel Management System
Not secure 192.168.42.43:5000/peoplehome
Apps Gmail Maps YouTube Apps
Show Your Complete Detail
We will Show You all Your Details of expenditures of booked room and Ordered Foods.
Send Complain
You can Send Complain To Manager of Hostel if Any Facing Problem.
Save Money
Our Hostel Rooms are very low Priced.You Can Book a Room in small Amount.
Rejoin
If You will leave then You acn Rejion us any Time Back!
Facilities of Rooms
More Facilities Available on more Price but on less Price good Facilities Available Rooms of Hostels are clean. The customer will be enjoy all facilities of our Hostels. Below some Facilities are mentioned.
1). Availability of LEDs
2). Fun, educated staff


Hostel Management System
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Apps
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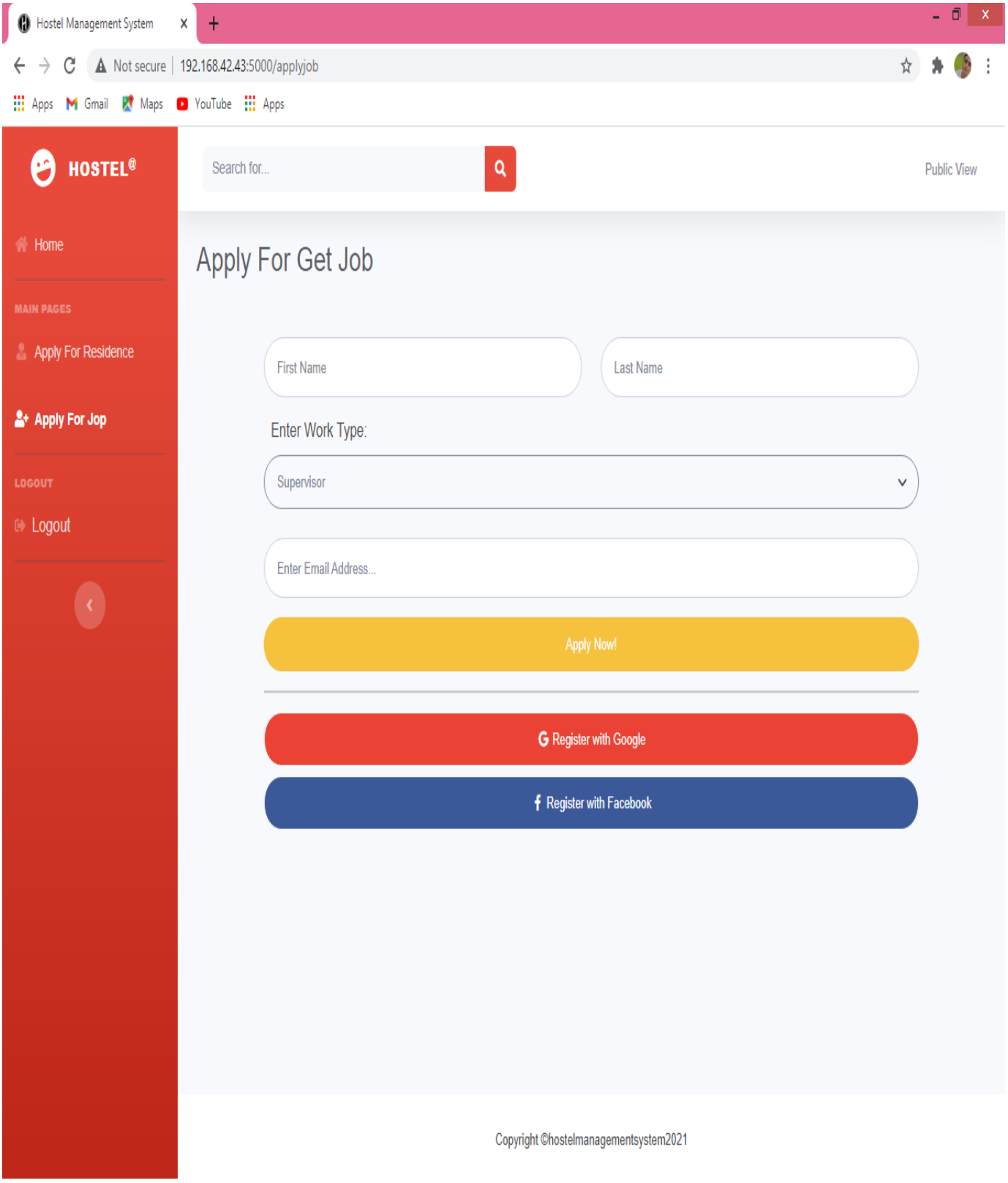
Facilities of Rooms
More Facilities Available on more Price but on less Price good Facilities Available Rooms of Hostels are clean. The customer will be enjoy all facilities of our Hostels. Below some Facilities are mentioned.
1). Availability of LEDs
2). Fun, educated staff
3). Availability of Food
4). Good location or well connected to public transport
5). Comfortable and inviting common areas
6). Free breakfast
7). Free Wi-Fi
8). Hostel events and activities
9). Well-stocked kitchen facilities
10). Laundry facilities or service
11). A variety of room/bed choices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Logout
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First Name
Last Name
Enter Work Type:
Supervisor
Enter Email Address...
Apply Now!
Register with Google
Register with Facebook
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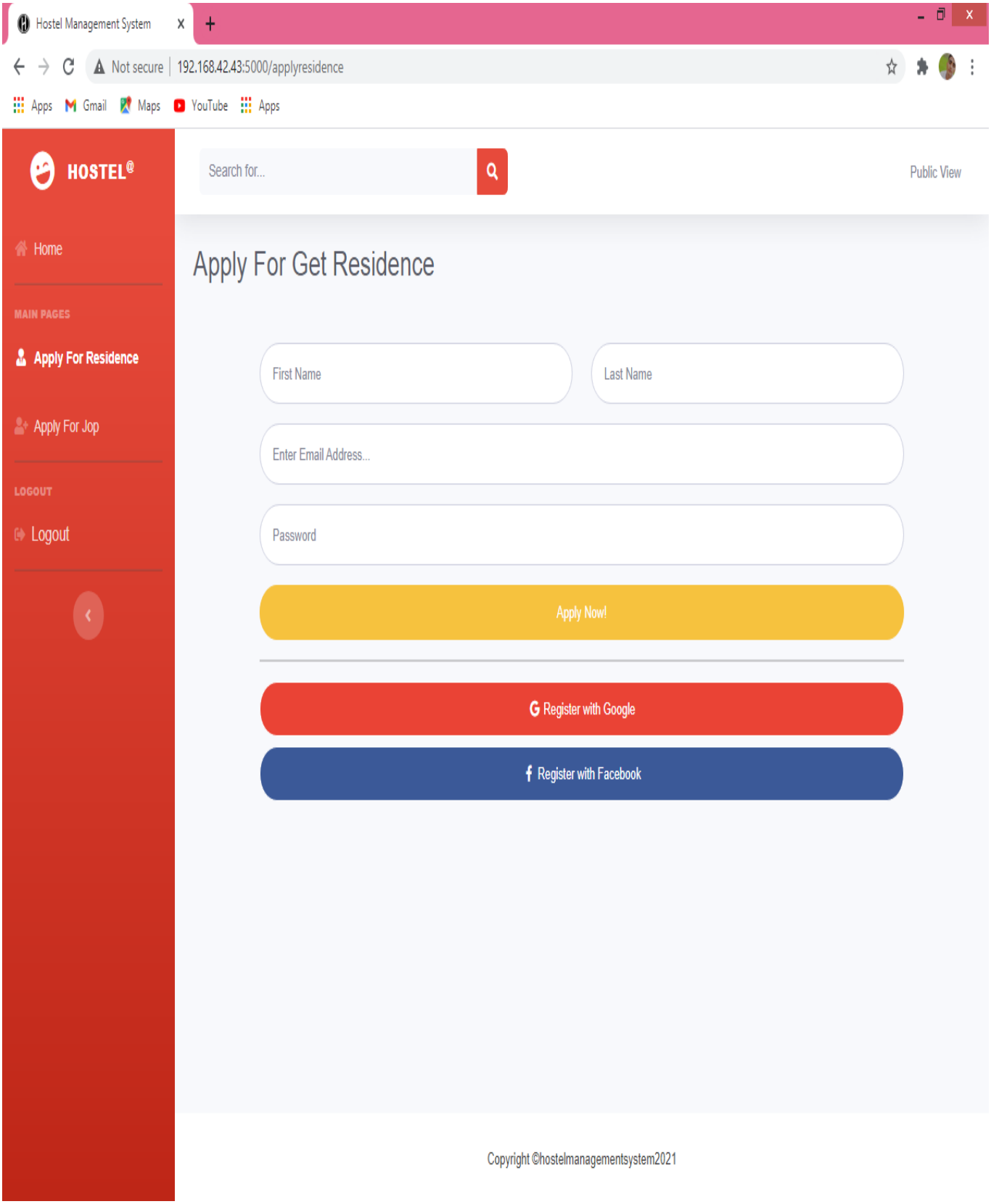
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Search for...
Public View
Home
MAIN PAGES
Apply For Residence
Apply For Jop
LOGOUT
Logout
Apply For Get Residence
First Name
Last Name
Enter Email Address...
Password
Apply Now!
Register with Google
Register with Facebook
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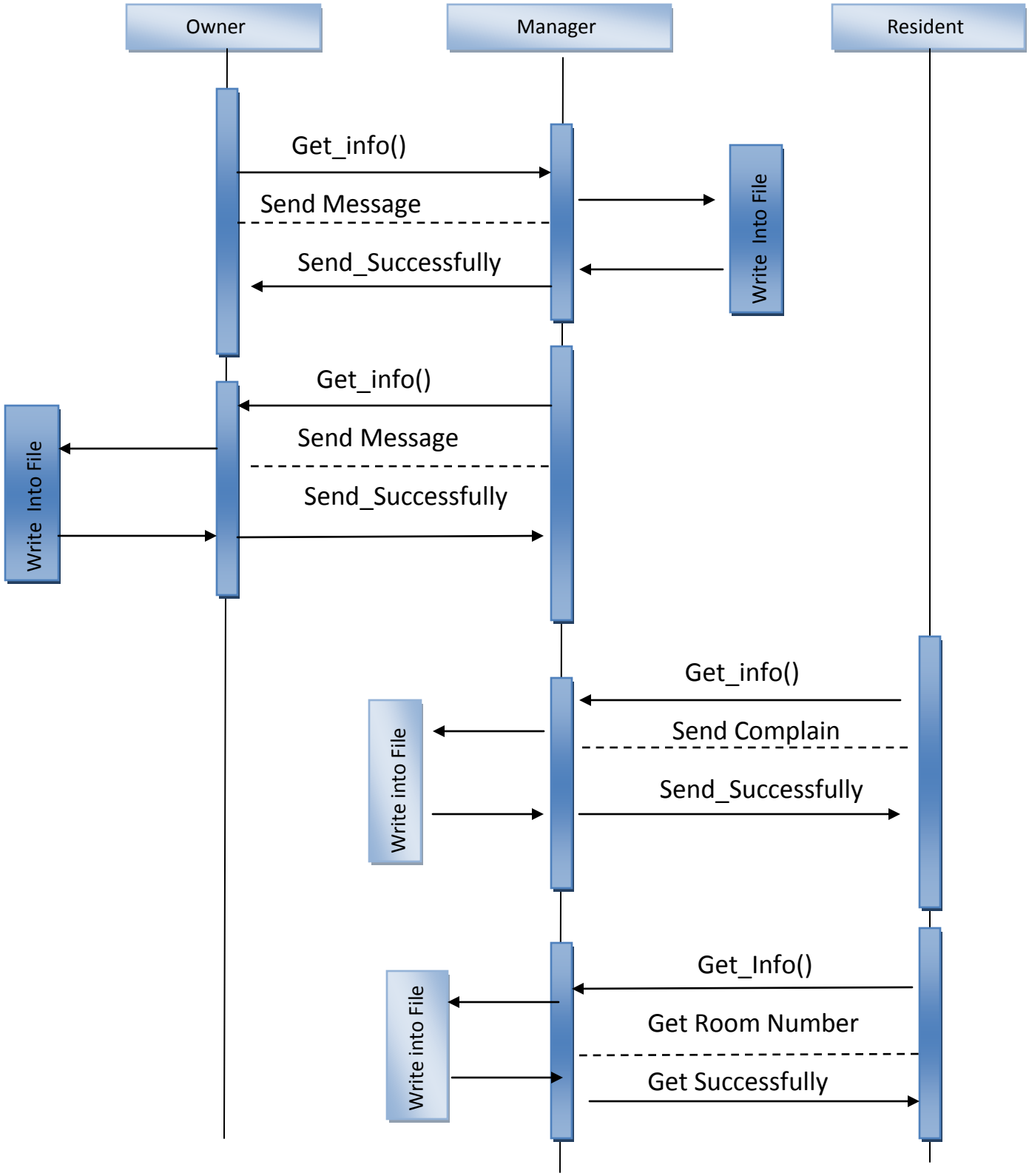
Sequence Diagram:



Test Cases:

Login Forms:

- Invalid Email & Password Cannot be Enter into Main Pages (Positive)
- Verify proper style of input email (Positive)
- Empty Input cannot be Send Data into Backend (Positive)
- Remember me Not Working (Negative)
- Login with Gmail or Facebook not working (Negative)
- Forgot Password Working Well (Positive)

Owner Page:

- Send Message check Input is Empty or Not (Positive)
- Add Manager Check Proper Email , Password , First and Last Name (Positive)
- Verify Email before changing Password (Positive)

Manager Page:

- Send Message check Input is Empty or Not (Positive)
- Add Worker and Resident Check Proper Email , Password , First and Last Name (Positive)
- Verify Email before changing Password (Positive)
- Can Delete Any Resident or Worker (Positive)

Resident Page:

- Send Message check Input is Empty or Not (Positive)
- Verify Email before changing Password (Positive)

- For Allotment and Order Food Check Email And Password before that (Positive)
- For Allotment check already Have Room or Not (Positive)

Added Features:

- Added Public View Option
- Added Add Worker Option in Manager Menu
- Added View Detail of Worker Option in Manager Menu
- Added View All Ordered Foods Option in Residents Menu
- Added Add Room Type Option in Manager Option
- Added Forgot Password Option in Login
- Added Home Pages