

OpenHome - Project Report

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APP URL : <https://cmpe275-savd-openhome.herokuapp.com/>

Backend URL : <https://www.vaishnaviramesh.com/OpenHome/>

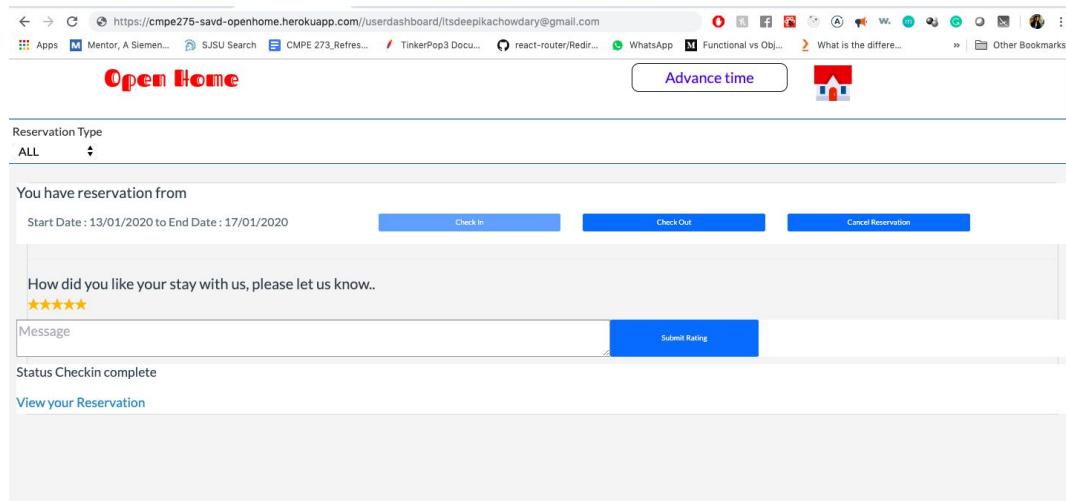
1. Introduction of your app

OpenHome is a home sharing service, where hosts can posts their home to share and guests can search for places to stay at. The services are developed as part of the coursework CMPE 275, under the guidance of Professor Zhang.

2. Bonus Feature implemented, if any.

Implemented ratings and reviews bonus feature where

- Guest will be able to rate and give reviews to the booking property after he checked out.
- Host will be able to see this rating and review in his posting details
- Host will be able to rate and give reviews to guest from his reservations dashboard



Reservation Type
ALL

You have reservation from

Start Date : 17/12/2019 to End Date : 19/12/2019 Cancel Reservation

Dear host, please rate guest for this booking..
★★★★★

Message _____ Submit Rating

Status Reservation is cancelled

[View your Reservation](#)

You have reservation from

Start Date : 13/01/2020 to End Date : 17/01/2020 Cancel Reservation

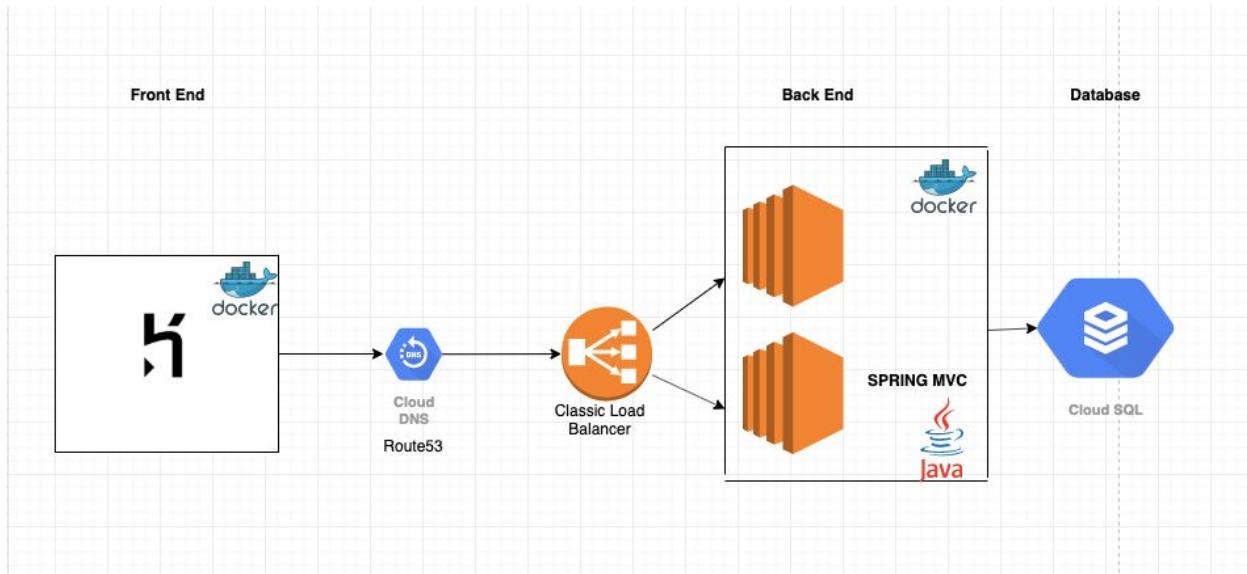
Dear host, please rate guest for this booking..
★★★★★

Message _____ Submit Rating

Status Checkin complete

[View your Reservation](#)

3.High level and component level design



4.Technology choices

Presentation Tier:

- FrontEnd developed using **React Js**
- Deployed using Heroku

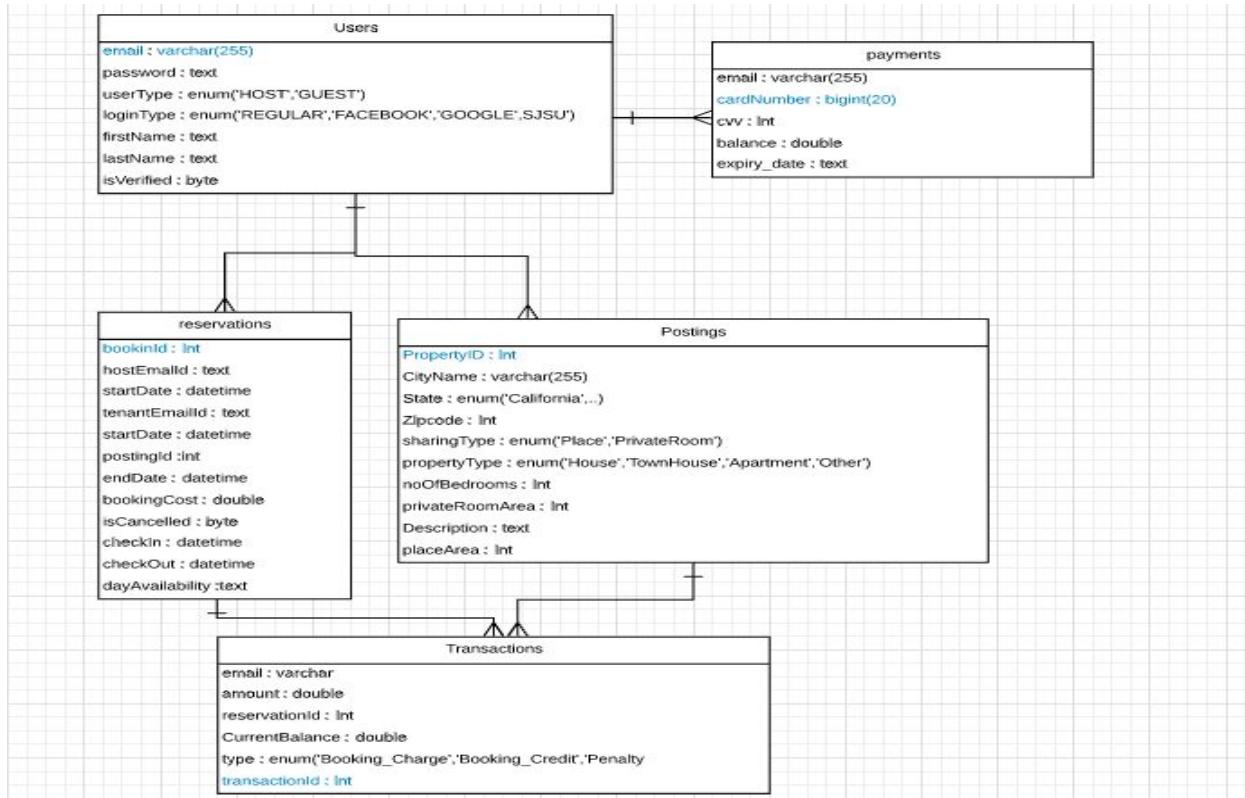
Business Tier :

- BackEnd developed using **Spring MVC** and Java version 11.
- **Hibernate ORM** used to persist users,postings,reservations,cards,payments,transactions data.
- Business tier divided into following components:
 - Controllers - Rest controllers to receive requests from front end
 - Data Models - represents entities to be stored in database
 - Data Repositories - JPA repositories to communicate with database.
 - Services - Mediator between the controllers and JPA repositories.

Database Tier :

- **GCP's Cloud SQL** is used as database.

ER diagram



The text in blue is the primary key of the table.

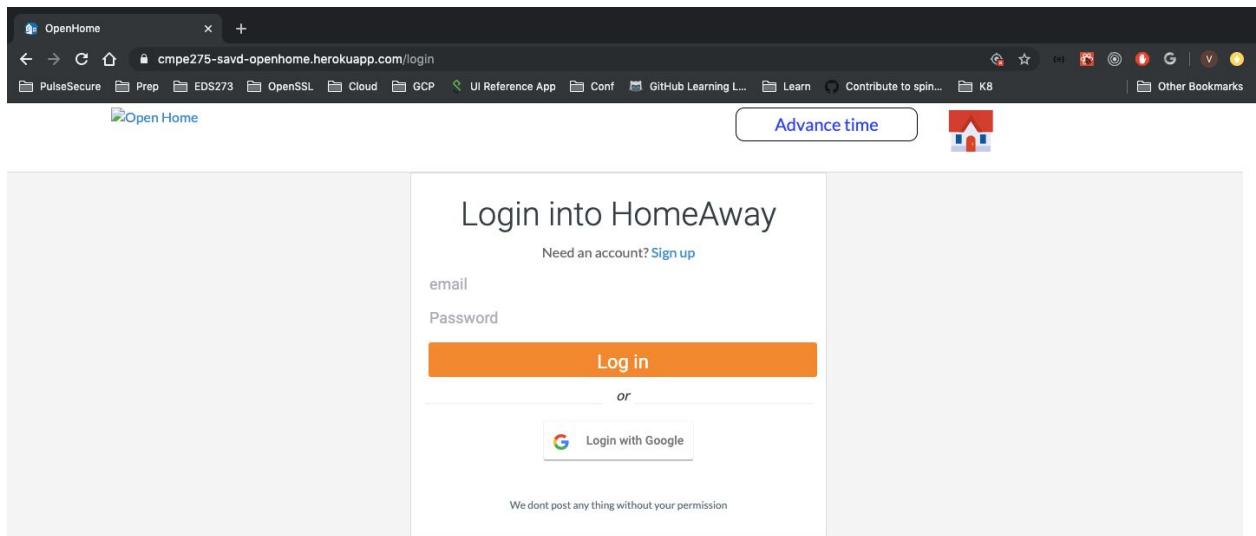
Infrastructure :

The backend is dockerized. It has been deployed on multiple AWS docker host for availability

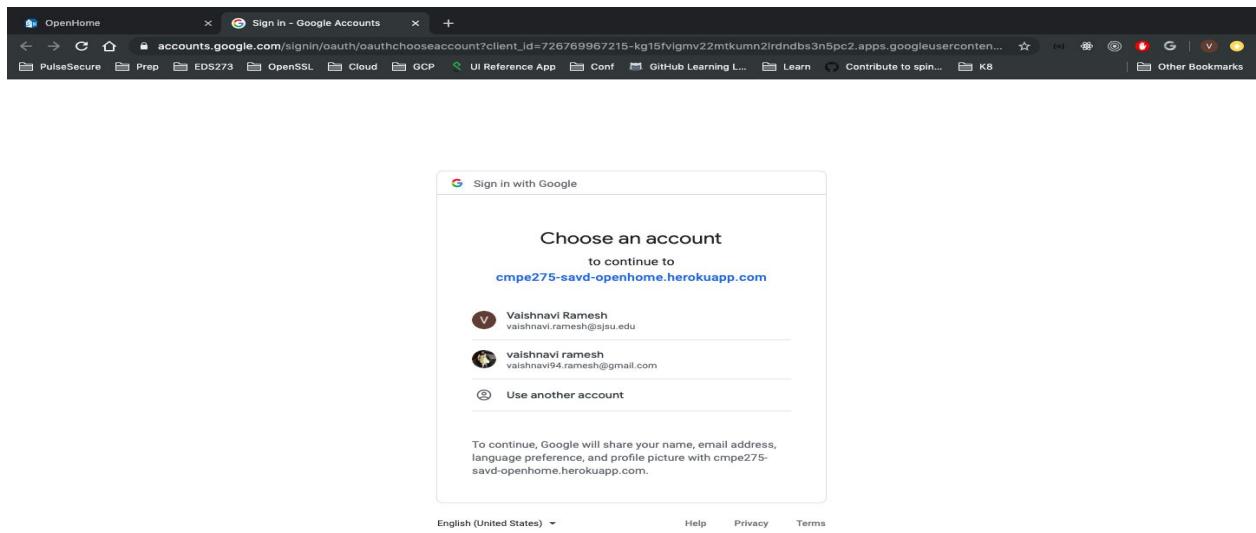
5.Description of features with final screenshots

1. User Roles and Authentication

Signup : For sign up and authentication, the user is provided with local password authentication and Oauth/OpenID



Account Verification with Google login:



Normal Sign Up

The screenshot shows a web browser window with the URL cmpe275-savd-openhome.herokuapp.com/signup. The page title is "Sign Up for HomeAway". It features a "Log In" link for existing users. Below the title, there are two input fields: "Vaishnavi" and "Ramesh", both containing the email address "vaishnavi94.ramesh@gmail.com". A horizontal dotted line follows the email inputs. A large orange "Sign me Up" button is centered at the bottom. At the very bottom of the page, a small note reads: "We dont post any thing without your permission". The browser's toolbar and tabs are visible at the top.

Normal Login :

The screenshot shows a web browser window with the URL cmpe275-savd-openhome.herokuapp.com/login. The page title is "Login into HomeAway". It includes a "Sign up" link for new users. An input field contains the email address "vaishnavi94.ramesh@gmail.com". A horizontal dotted line follows the input field. A large orange "Log in" button is centered at the bottom. Below it, a "or" separator is followed by a "Login with Google" button. At the bottom of the page, a note states: "We dont post any thing without your permission". The browser's toolbar and tabs are visible at the top.

Email Verification for signing up locally

Verify your mailAddress - vaishnavi.ramesh@gmail.com

openhomeservice@gmail.com to me

Click here to verify your account <https://cmpe275-savd-openhome.herokuapp.com/verifyAccount/vaishnavi94.ramesh@gmail.com>

Reply Forward

2 deleted messages in this conversation. [View messages](#) or [delete forever](#).

vaishnavi ramesh
vaishnavi94.ramesh@gmail.com

Manage your Google Account

Vaishnavi Ramesh
vaishnavi.ramesh@sjsu.edu Default

Add another account

Sign out of all accounts

Privacy Policy • Terms of Service

Email Verification for google login

Verify your mailAddress - vaishnavi.ramesh@gmail.com

Verify your mailAddress - vaishnavi.ramesh@gmail.com

openhomeservice@gmail.com to me

Click here to verify your account <https://cmpe275-savd-openhome.herokuapp.com/verifyAccount/vaishnavi.ramesh@sjsu.edu>

Reply Forward

This account is managed by sjsu.edu. [Learn more](#)

Vaishnavi Ramesh
vaishnavi.ramesh@sjsu.edu

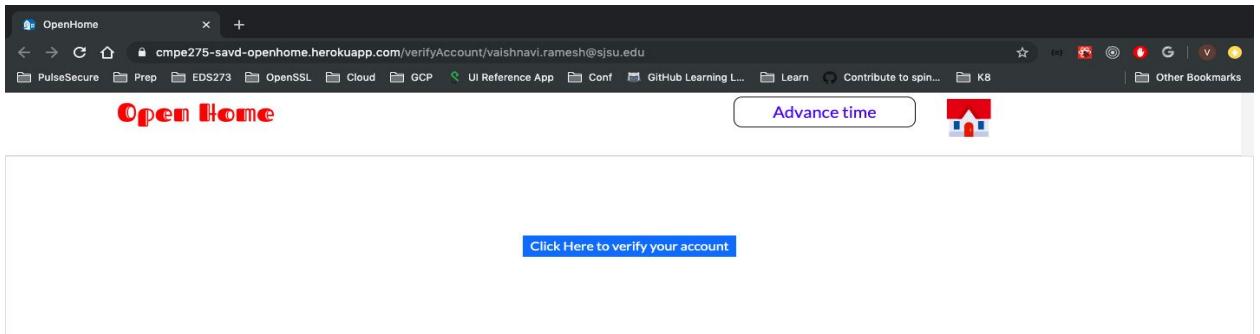
Manage your Google Account

vaishnavi ramesh
vaishnavi94.ramesh@gmail.com

Add another account

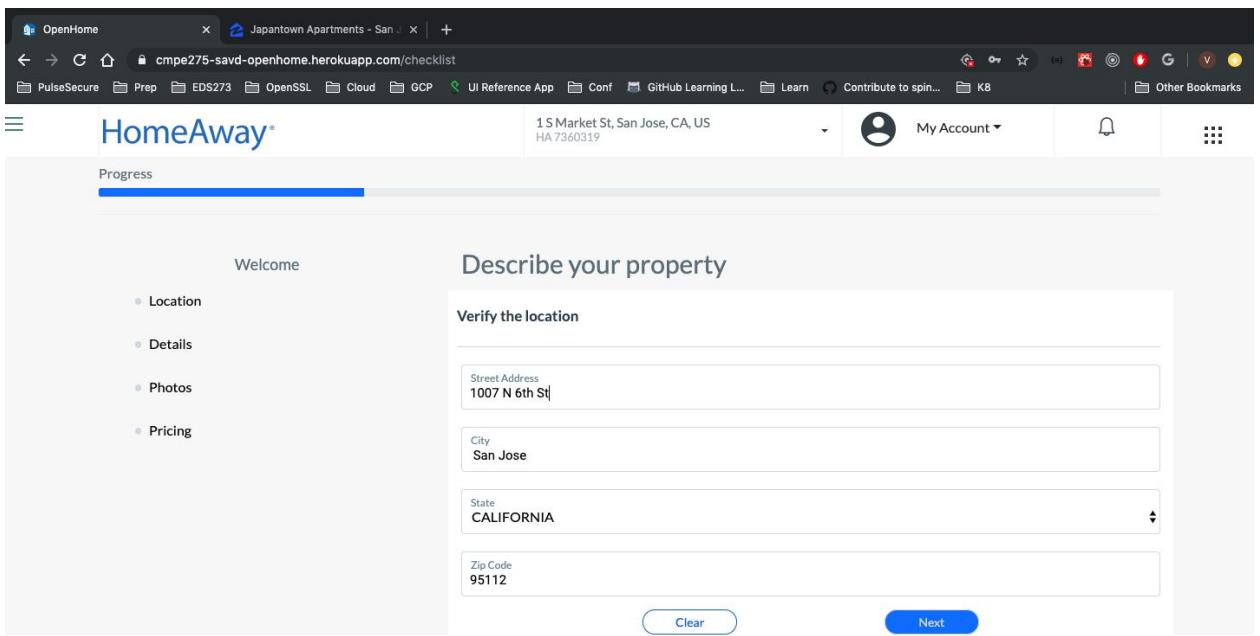
Sign out of all accounts

User Verification



2. Host Features

- A signed in host must be able to post a place for sharing



The screenshot shows a web browser window with the URL cmpe275-savd-openhome.herokuapp.com/checklist. The page is titled "HomeAway" and displays a "Welcome" section with a "Progress" bar at the top. On the left, there's a sidebar with navigation links: "Location", "Details", "Photos", and "Pricing". The main content area is titled "Describe your property" and contains fields for "Property Description" (a classic, updated Hyde Park home!), "Property Type" (HOUSE), "Bedrooms" (2), and "Total Area (sqft)" (1000). The "Property Description" field includes a rich text editor interface.

This screenshot continues from the previous one, showing the next step in the checklist process. The "Property Type" is still set to "HOUSE". The "Bedrooms" field now contains "2". The "Total Area (sqft)" field remains at "1000". A new section titled "Sharing Type" has been added, with "PLACE" selected. Below this, several checkboxes are checked: "Is Parking Available", "Has onsiteLaundry", "Has City View", and "Is Smoking Allowed". A "WIFI Availability" field shows "PAID_WIFI". At the bottom, a "Days Availability" section lists "Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", and "Saturday" with checkboxes. There are "Clear" and "Next" buttons at the bottom right.

OpenHome Japantown Apartments - San Francisco, CA

cmpe275-savd-openhome.herokuapp.com/checklist#photos

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Welcome

Describe your property

Add upto 50 photos of your property

Showcase your property's best features . Requirements: 1 photo minimum

Drop photos here or SELECT PHOTOS TO UPLOAD

You can decide to upload more than one photo at a time.

Three photos of a red house and its interior are displayed.

Clear Next

OpenHome Japantown Apartments - San Francisco, CA

cmpe275-savd-openhome.herokuapp.com/checklist

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Progress

Welcome

Describe your property

Availability & Pricing

Contact Number
925321546

Start Date
12/01/2024

End Date
12/31/2024

Weekday Rent
100

Weekend Rent
120

Daily Parking Fee
10

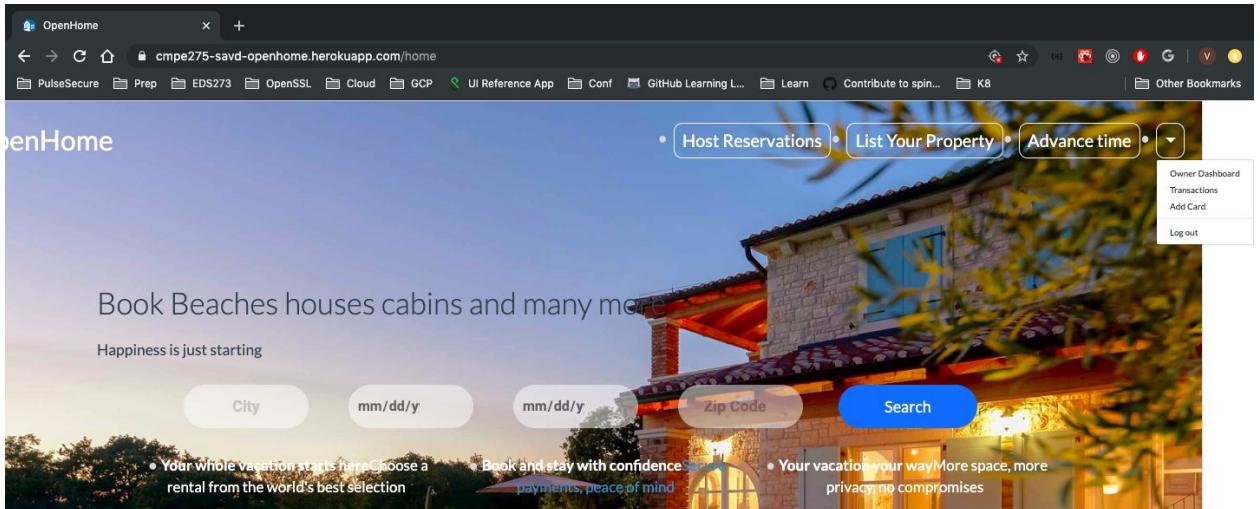
Extra Parking Pay
10

Congratulations!

Property has been successfully added. You will be soon redirected to our homepage.

OK

To view the host's postings: -> Go to owner dashboard



A screenshot of the Open Home owner dashboard. The URL is cmpe275-savd-openhome.herokuapp.com/ownerdashboard/vaishnavi.ramesh@sjtu.edu. At the top, there is a "Previous" button, a page number "1/0", and a "Next" button. There is also an "Advance time" button and a small house icon. Below this, there is a listing detail for a property: San Jose, Japantown 1007 N 6th St, CALIFORNIA, 900 sqft, Week Rent: 100, Weekend Rent: 120, Bedrooms: 2, Days: Sun,Mon,Tues,Wed,Thur,Fri,Sat. An "Edit" button is located at the bottom left of the listing.

B . Posting Management

1. Edit a place

Price changes should not change reservations that are already made

The reservation made against a posting

OpenHome

Welcome Guest

Reservation Type: ALL

You have reservation from

Start Date : 12/29/2019 to End Date : 12/31/2019

Check In Check Out Cancel Reservation

Status Reservation is cancelled

Booking Cost: \$340

[View Your Reserved Place](#)

On viewing the reservation,

OpenHome

Welcome Guest

\$ 100 **\$ 120**

Weekday Rent Weekend Rent

Check in Invalid Date	Check Out Invalid Date
Total	\$0

[Book Now](#)

Edit the same property using the edit button

OpenHome

Inbox (4,127) - vaishnavi.ramesh@sjtu.edu | Hello guest, your reservation is... | Verify your mailAddress - vaishnavi.ramesh@sjtu.edu | AWS Management Console

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Open Home

Advance time

1/0

Previous Next

City	Address	State	Area	Week Rent	Weekend Rent	Bedrooms	Days
San Jose	Japantown 1007 N 6th St	CALIFORNIA	900 sqft	100	120	2	Sun,Mon,Tues,Wed,Thur,Fri,Sat

[Edit](#)

OpenHome

Inbox (4,127) - vaishnavi.ramesh@... | Hello guest, your reservation is... | I was offered a new job from... | AWS Management Console

PulseSecure Prep EDS273 OpenSSL Cloud GCP UI Reference App Conf GitHub Learning L... Learn Contribute to spin... K8 Other Bookmarks

Open Home

Advance time

City	Address	State	Area	Week Rent	Weekend Rent	Bedrooms	Days
San Jose	Japantown 1007 N 6th St	CALIFORNIA	900 sqft	100	120	2	Sun,Mon,Tues,Wed,Thur,Fri,Sat

Edit

Start Date
12/17/2019

End Date
12/31/2019

Weekday Rent
130

Weekend Rent
150

Days Availability
Sunday Monday Tuesday Wednesday Thursday Friday Saturday

Save

OpenHome

Inbox (4,127) - vaishnavi.ramesh@... | Hello guest, your reservation is... | I was offered a new job from... | AWS Management Console

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Open Home

Advance time

City	Address	State	Area	Week Rent	Weekend Rent	Bedrooms	Days
San Jose	Japantown 1007 N 6th St	CALIFORNIA	900 sqft	100	120	2	Sun,Mon,Tues,Wed,Thur,Fri,Sat

Edit

Start Date
12/17/2019

End Date
12/31/2019

Weekday Rent
130

Weekend Rent
150

Days Availability
Sunday Monday Tuesday Wednesday Thursday Friday Saturday

Successfully updated!
Posting has been updated successfully.

OK

Save

The reservation price remains the same.

The screenshot shows a web browser window for the 'Open Home' application. The URL is <https://cmpe275-savd-openhome.herokuapp.com/userdashboard/vaishnavi94.ramesh@gmail.com>. The dashboard header includes 'Open Home', 'Advance time', and a house icon. A message says 'Welcome Guest'. Below the header, there's a section for 'Reservation Type' with a dropdown set to 'ALL'. It displays a message: 'You have reservation from' followed by 'Start Date : 12/29/2019 to End Date : 12/31/2019'. There are three buttons: 'Check In', 'Check Out', and 'Cancel Reservation'. A note says 'Status Reservation is cancelled' and 'Booking Cost: \$340'. A link 'View Your Reserved Place' is also present.

2. Change availability

Before changing the availability

The screenshot shows a web browser window for the 'Open Home' application. The URL is <https://cmpe275-savd-openhome.herokuapp.com/ownerdashboard/vaishnavi.ramesh@sjtu.edu>. The dashboard header includes 'Open Home', 'Advance time', and a house icon. A message says 'Welcome vaishnavi.ramesh@sjtu.edu'. Below the header, there's a navigation bar with 'Previous' and 'Next' buttons, and a page number '1/0'. The main content area shows a listing for a property in San Jose, California. The listing details are: City (San Jose), Address (Japantown 1007 N 6th St), State (CALIFORNIA), Area (900 sqft), Week Rent (130), Weekend Rent (150), Bedrooms (2), and Days (Sun,Mon,Tues,Wed,Thur,Fri,Sat). There are buttons for 'Done' and 'Delete Posting'. Below the listing, there are fields for 'Bear 15% Penalty' (checkbox), 'Weekday Rent' (130), 'Weekend Rent' (150), and a 'Days Availability' section where all days of the week are checked. A 'Save' button is at the bottom right.

Update the availability of posting:

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "OpenHome" and displays the "Open Home" application. The page shows a listing for a house in San Jose, California, with details like address, state, area, rent, and days available. A modal dialog box in the center says "Successfully updated!" with the message "Posting has been updated successfully." An "OK" button is visible in the dialog. Below the modal, there's a "Save" button. The browser's address bar shows the URL: cmpe275-savd-openhome.herokuapp.com/ownerdashboard/vaishnavi.ramesh@sjtu.edu.

Reservation cancelled with penalty. Check the status if reservations of these postings

This screenshot shows two separate sections of the Open Home application. The top section displays a message: "You have reservation from" followed by a date range "Start Date : 12/29/2019 to End Date : 12/31/2019". It includes a "Cancel Reservation" button and a message input field labeled "Message". The bottom section also displays a message: "You have reservation from" followed by a date range "Start Date : 12/17/2019 to End Date : 12/26/2019". It includes a "Cancel Reservation" button and a message input field labeled "Message". Both sections include a rating request: "Dear host, please rate guest for this booking.." followed by a five-star rating icon. There is also a "Submit Rating" button.

3. Remove the place (Delete a 2nd posting)

City	Address	State	Area	Week Rent	Weekend Rent	Bedrooms	Days
San Jose	Japantown 1007 N 6th St	CALIFORNIA	900 sqft	130	150	2	Sun,Mon,Tues,Wed,Thur,Fri,Sat

City	Address	State	Area	Week Rent	Weekend Rent	Bedrooms	Days
San Jose	88 E San Fernando	CALIFORNIA	1000 sqft	250	300	2	Sun,Mon,Tues,Wed,Thur,Fri,Sat

After delete postings of host looks like this

City	Address	State	Area	Week Rent	Weekend Rent	Bedrooms	Days
San Jose	Japantown 1007 N 6th St	CALIFORNIA	900 sqft	130	150	2	Sun,Mon,Tues,Wed,Thur,Fri,Sat

Respective updates were made to the reservations

C. One Host can own multiple places

The screenshot shows a web browser window with the URL <https://cmpe275-savd-openhome.herokuapp.com/ownerdashboard/vaishnavi.ramesh@sjsu.edu>. The page title is "Open Home". At the top right, there is a "Logout" button. Below it, a "Advance time" button and a house icon. The main content area displays two property listings:

City	Address	State	Area	Week Rent	Weekend Rent	Bedrooms	Days
San Jose	Japantown 1007 N 6th St	CALIFORNIA	900 sqft	130	150	2	Sun,Mon,Tues,Wed,Thur,Fri,Sat

[Edit](#)

City	Address	State	Area	Week Rent	Weekend Rent	Bedrooms	Days
San Jose	88 E San Fernando	CALIFORNIA	1000 sqft	250	300	2	Sun,Mon,Tues,Wed,Thur,Fri,Sat

[Edit](#)

D. Cancel a reservation

3. Guest Features

- A guest must be able to search for places

Search is defaulted to the current location of the user

The screenshot shows a web browser window with the URL <https://cmpe275-savd-openhome.herokuapp.com>. The page title is "OpenHome". At the top right, there is an "Advance time" button and a "Log In" button. The main content area features a large image of a beach house at sunset. Overlaid on the image is a search interface:

Book Beaches houses cabins and many more...

Happiness is just starting

San Jose mm / dd / yy

We found that you live in San Jose ?

OK

Your whole vacation starts here! Choose a rental from the world's best selection

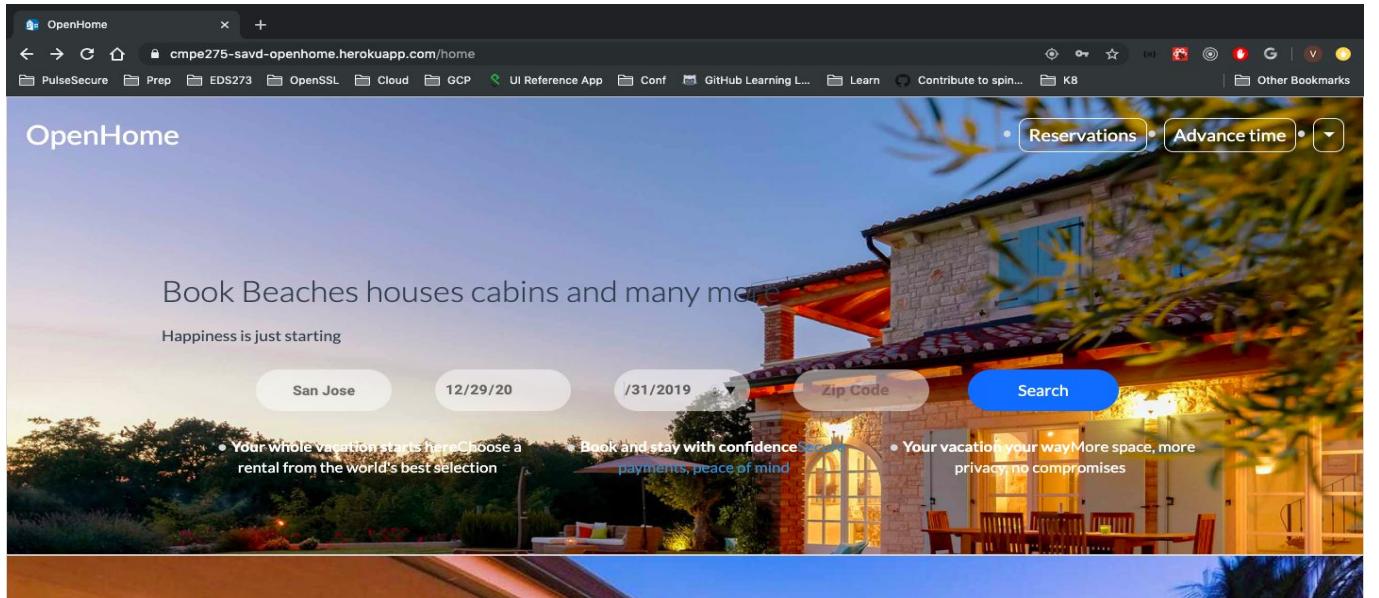
Search

Your vacation, your way! More space, more privacy, no compromises

List your property on Open Home and open your door to rentals by name

List Your Property

First Level Of Search Filters



Second Level of Search Filters

The screenshot shows the search results page for "OpenHome". The search parameters are identical to the first screenshot: "Where" (San Jose), "From" (20), "To Price" (100), "Sharing Type" (PLACE), "Property Type" (HOUSE), "WIFI Type" (FREE_WIFI), and "Description" (small). The results are displayed in two cards.

Result 1: A big house

City	Address	State	Property Type	Sharing Type	Area	Week Rent	Weekend Rent	Days
San Jose	1 S Market Street #402	CALIFORNIA	HOUSE	PLACE	4000 sqft	50	1000	Sun,Mon,Tues,Wed,Thur,Fri

Amenities

Private Bathroom Available	Private Shower Available	Bedrooms	WiFi	Smoking	OnSite Laundry	City View	Parking Available	Parking Fee	Extra Parking Fee
No	No	4	FREE_WIFI	No	No	No	Yes		

Result 2: A big house

City	Address	State	Property Type	Sharing Type	Area	Week Rent	Weekend Rent	Days
San Jose	1 N Market Street #402	CALIFORNIA	HOUSE	PLACE	4300 sqft	50	100	Sun,Mon,Tues,Wed,Thur,Fri,Sat

b.A guest should be able to view the search results through paging

OpenHome

<https://cmpe275-savd-openhome.herokuapp.com/search?cityName=San%20Jose&startDate=2019-12-17&endDate=2019-12-31&zipcode=null>

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Private watching (December through April). modklemmkrinlivevc

City	Address	State	Property Type	Sharing Type	Area	Week Rent	Weekend Rent	Days
San Jose	754 The Alameda	CALIFORNIA	TOWN_HOUSE	PLACE	100 sqft	100	200	Sun,Mon,Tues,Wed,Thur,Fri,Sat

Amenities

Private Bathroom Available	Private Shower Available	Bedrooms	WIFI	Smoking	OnSite Laundry	City View	Parking Available	Parking Fee	Extra Parking Fee
No	No	1	PAID_WIFI	Yes	Yes	No	Yes		

★★★★★

City	Address	State	Property Type	Sharing Type	Area	Week Rent	Weekend Rent	Days
San Jose	1007 N 6th St	CALIFORNIA	HOUSE	PLACE	900 sqft	100	120	Sun,Mon,Tues,Wed,Thur,Fri,Sat

Amenities

Private Bathroom Available	Private Shower Available	Bedrooms	WIFI	Smoking	OnSite Laundry	City View	Parking Available	Parking Fee	Extra Parking Fee
No	No	2	FREE_WIFI	Yes	Yes	Yes	Yes		

★★★★★

1/1

Previous Next

c . A guest should be able to view the details of a particular space

OpenHome

<https://cmpe275-savd-openhome.herokuapp.com/overview/90?startDate=1576540800000&endDate=1577750400000>

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Open Home

Advance time

\$ 100 \$ 120

Weekday Rent Weekend Rent

Check in 12/16/2019	Check Out 12/30/2019
Total	\$1620

Book Now Add Card

City	Address	State	Property Type	Sharing Type	Area	Week Rent	Weekend Rent	Days
San Jose	Japantown 1007 N 6th St	CALIFORNIA	HOUSE	PLACE	900 sqft	100	120	Sun,Mon,Tues,Wed,Thur,Fri,Sat

Amenities

Private Bathroom Available	Private Shower Available	Bedrooms	WIFI	Smoking	OnSite Laundry	City View	Parking Available	Parking Fee	Extra Parking Fee
No	No	2	FREE_WIFI	Yes	Yes	Yes	Yes		

Address:

Japantown 1007 N 6th St

Description:

Classic, updated Hyde Park home! Two spacious bedrooms, large remodeled bathroom with shower/jetted tub, updated kitchen with hickory cabinets, granite counters. Gorgeous pecan hardwood floors. Fireplace, inside laundry, dual pane windows, separate dining area. Outstanding garden, large lot.

The user cannot book a reservation without verifying his account

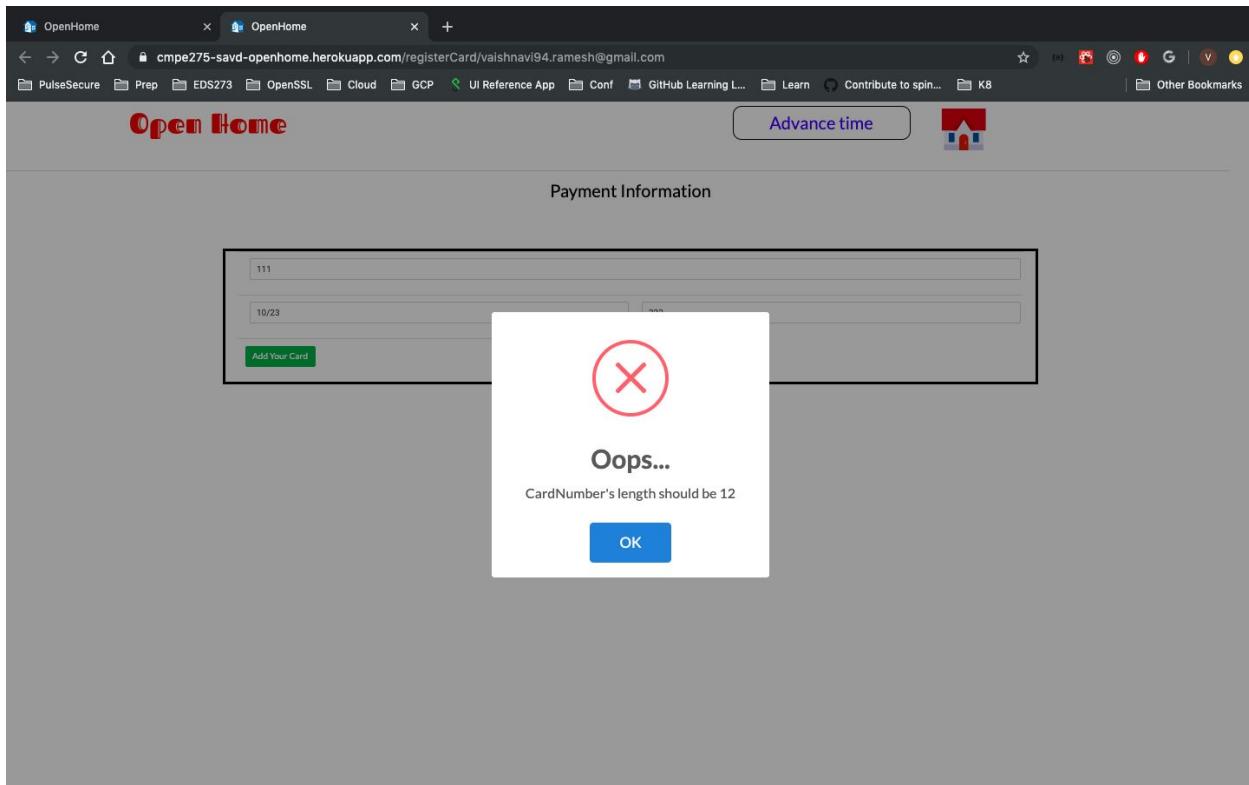
A screenshot of a web browser displaying the OpenHome website. The main page shows a red house for rent with a price of \$100 for Weekday Rent and \$120 for Weekend Rent. A modal dialog box is overlaid on the page, containing a large red 'X' icon and the text "Oops... Please verify your email account before reserving". Below the dialog are "OK" and "Cancel" buttons. At the bottom of the page, there is a section for "Amenities" and a "Description" of the property.

D. Payment Method Registration

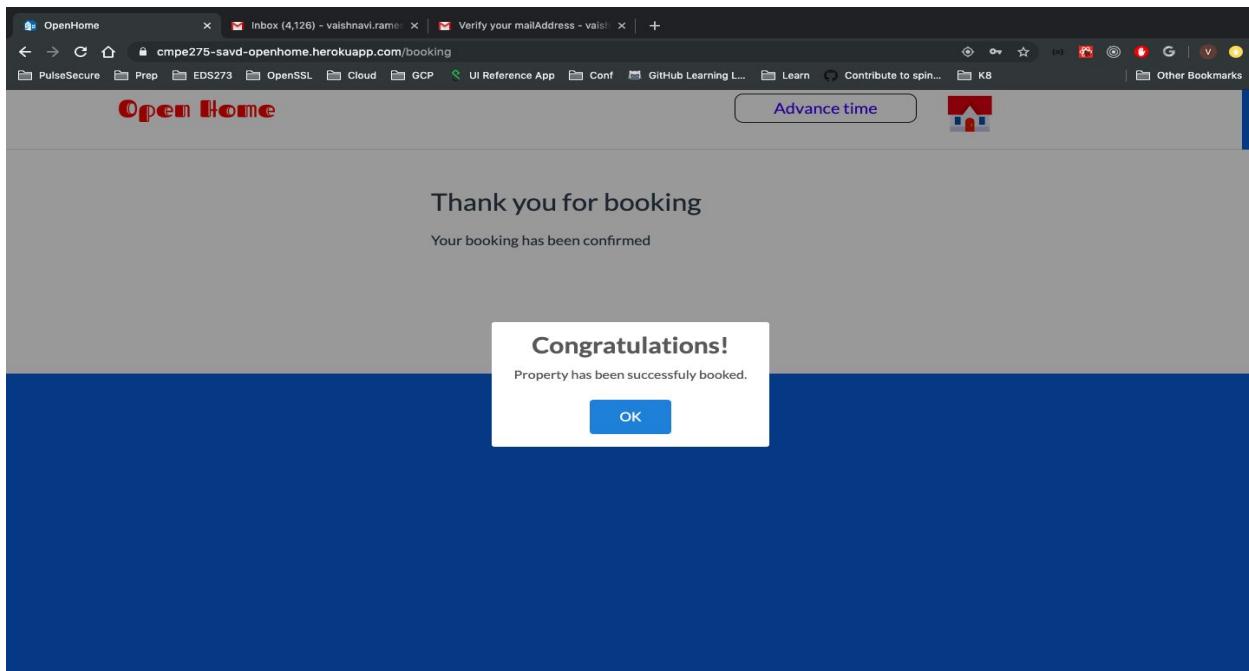
A guest must be given the option of registering at least one payment method

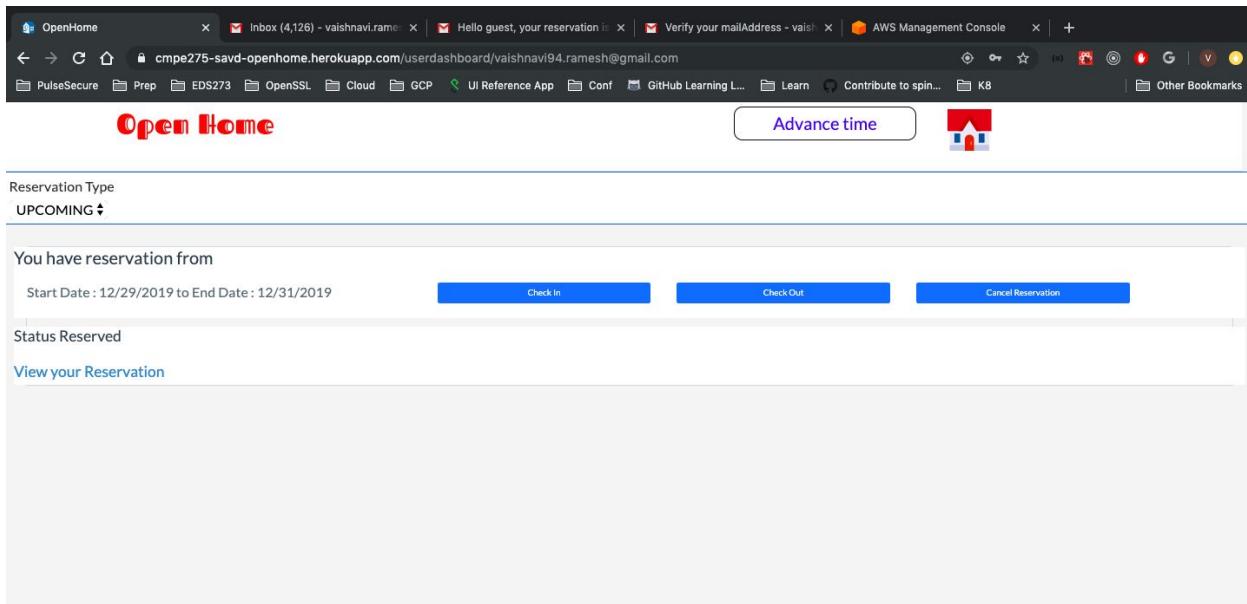
A screenshot of a web browser displaying the OpenHome website. The page is titled "Payment Information". It features three input fields: a card number field containing "1111", an expiry date field containing "Enter your expiry", and a security code field. Below these fields is a green "Add Your Card" button.

Credit card validation

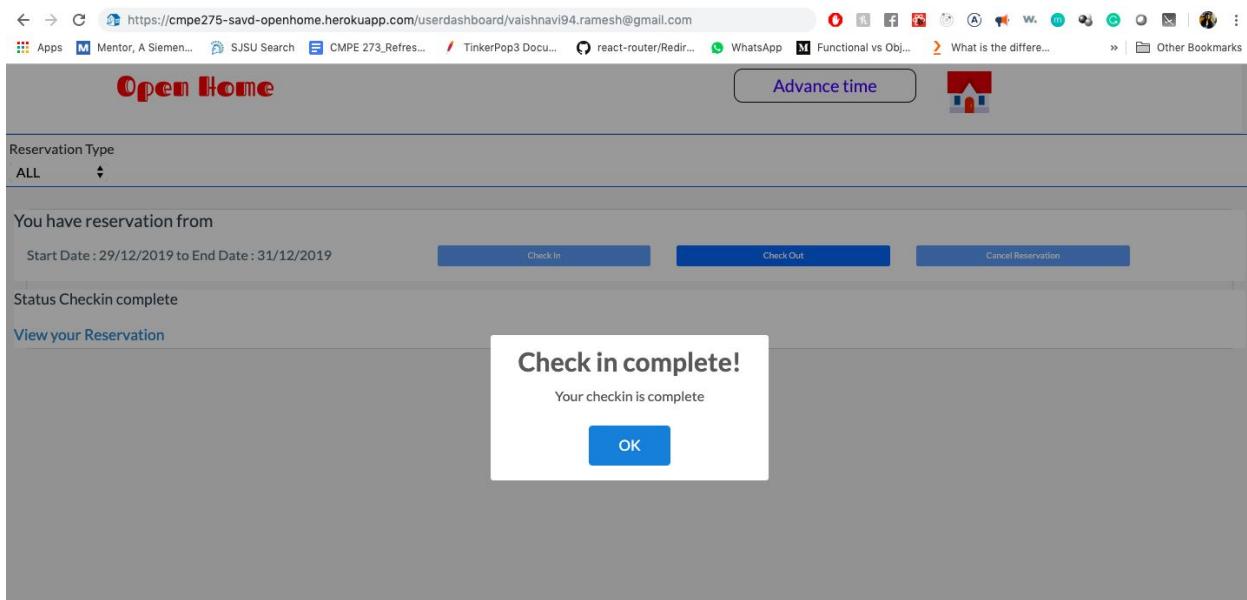


E. Reservation

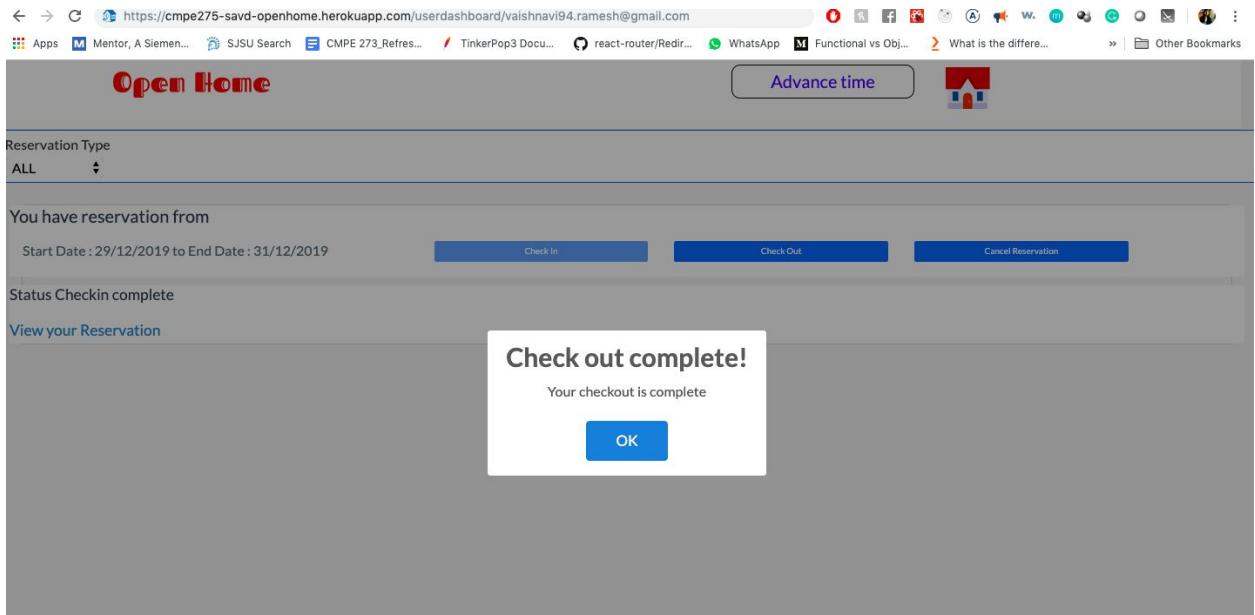




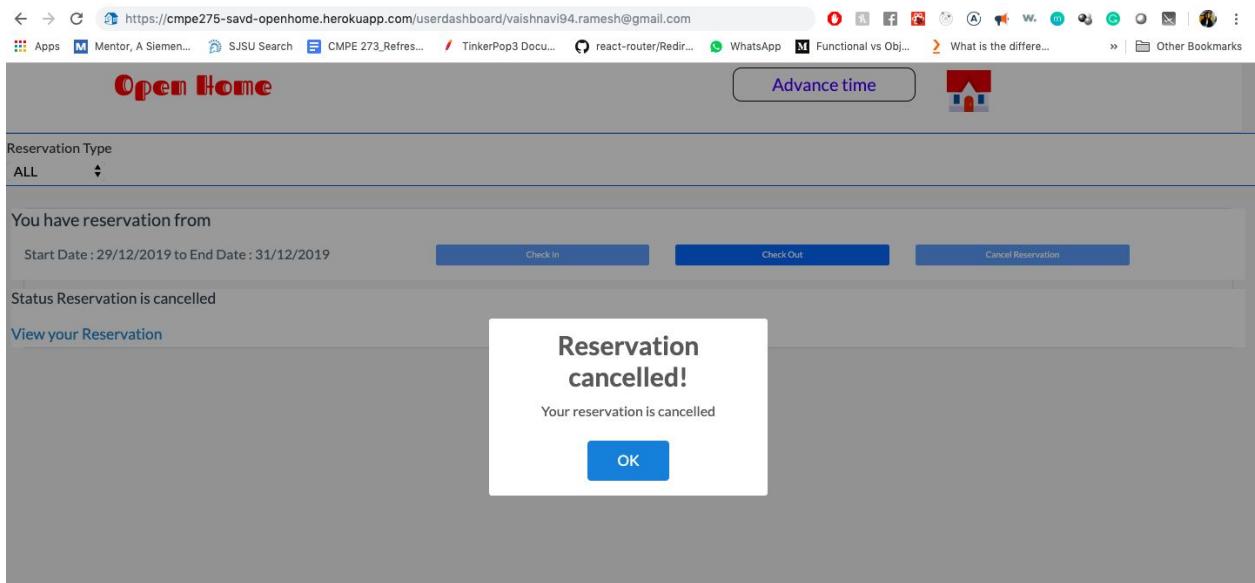
- Guest will be able to see his reservations and will be able to check-in only after 3 am of reservation start date



- Guest will be able to checkout before the reservation end date, also he will be able to do early checkout.



- Guest should be able to cancel reservation before he checks in



- Reservations will be canceled as a no show cancellation if the guest doesn't show up before 3 AM of the reservation start date of the next day and will be auto-checked out if the guest doesn't check out before end time(11 AM of reservation end date). These features can be seen in the guest reservation dashboard from the status field in UI

The screenshot shows a web page titled "Open Home". At the top right are buttons for "Advance time" and a house icon. Below the title, a dropdown menu shows "Reservation Type: ALL". A message box states "You have reservation from" with a date range "Start Date: 29/12/2019 to End Date: 31/12/2019". Three buttons are present: "Check In" (disabled), "Check Out" (disabled), and "Cancel Reservation". A red circle highlights the message "Status Reservation is cancelled". Below this, a link "View your Reservation" is visible.

- After check-ins, early checkouts, no show cancellations, guest will be charged and transaction is made on card and email notification will be sent to user. Guest can check his refunds, bookingcharges from Transaction history feature

The screenshot shows a web browser with the URL "https://cmpe275-savd-openhome.herokuapp.com/transactions/itsdeepikachowdary@gmail.com". The page title is "Open Home". At the top right are buttons for "Advance time" and a house icon. Below the title, the heading "Transaction History" is displayed. The main content consists of a table with six rows, each representing a transaction. Each row has three columns: "Amount", "Current Balance", and "Booking Type". The first five rows show REFUND transactions, while the last one shows a BOOKING_CHARGE transaction.

Amount 0	Current Balance 500	Booking Type REFUND
Amount 0	Current Balance 500	Booking Type REFUND
Amount 30	Current Balance 470	Booking Type REFUND
Amount 30	Current Balance 440	Booking Type REFUND
Amount 60	Current Balance 380	Booking Type REFUND
Amount 90	Current Balance 290	Booking Type BOOKING_CHARGE

4. Notification and stats

a. Notification Email

Search mail

Inbox

Hello host, your property is added to OpenHome Successfully.

openhomeservice@gmail.com
to me ▾
Successfully added a property :90

Reply Forward

Vaishnavi Ramesh
vaishnavi.ramesh@sjsu.edu

Manage your Google Account

vaishnavi ramesh
vaishnavi94.ramesh@gmail.com

Add another account

Sign out of all accounts

Privacy Policy • Terms of Service

OpenHome Hello host, your property has been successfully booked by guest...!! Verify your mailAddress - vaishnavi94.ramesh@gmail.com AWS Management Console

mail.google.com/mail/u/0/#inbox/FMfcgxwGCQWtVSTNpxhJXmSTdxGwMGK!

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Gmail Search mail

Compose

Inbox 4,126

Starred Snoozed Sent Drafts 93 More

Vaishnavi +

Samitha Yadav Mamindla You: <http://www.geeksforgeeks.org>

Aditya Doshati You: <https://onplaceholder.typecode>

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Jojo Joseph You: <https://www.professormesser.co>

Deepika Yannamani You: ./gradlew clean

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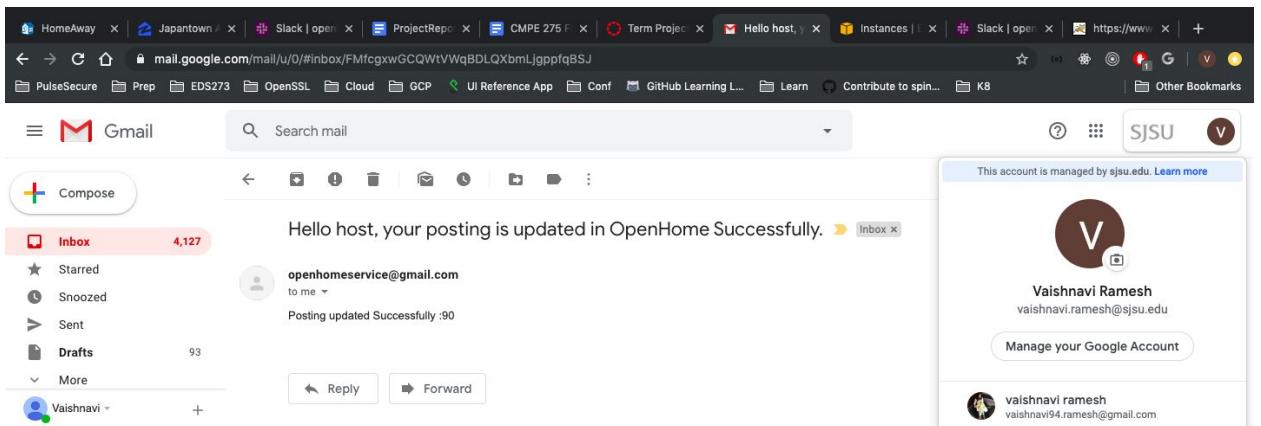
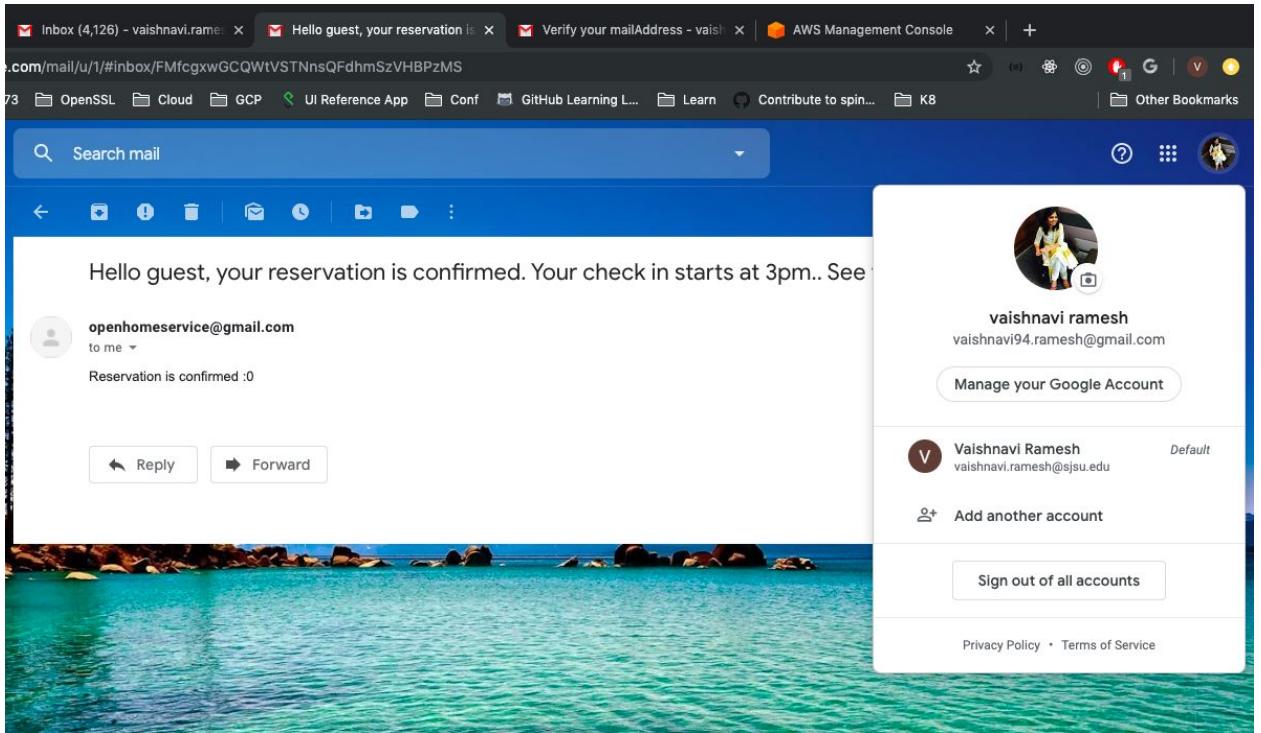
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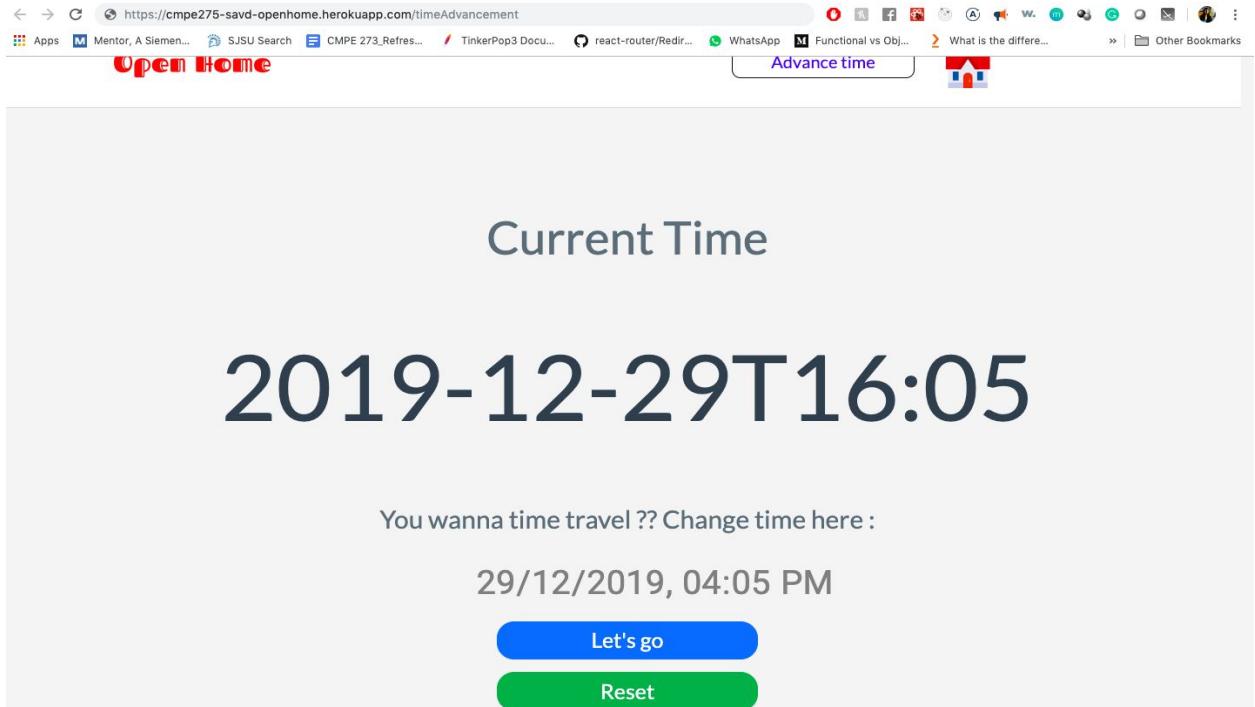
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5. Time advancement Management

User will be able to advance time from the advance time feature in UI.



6. Testing plan executed and results

Sr.N o	Test Cases	Results and Observations
1	Host Signup - email id with @sjsu.edu	Host received a verification email. After verification, the admin logged into the portal
2	Unverified user creates posting 1. The host does not verify himself 2. He creates a posting	The host is not allowed to create a posting. An error pops up asking the user to verify himself
3	Host creates a posting 1. Login as host/admin 2. Go to "List Property" 3. Create posting	The "List Property" option is only available to the host. Verified that the posting is created and can be viewed from the owner dashboard. Verified that only an admin can create a posting.
4	Guest Signup - with oauth/local	Guest received a verification mail. After verification, the guest was able to log in to portal

5	<p>View postings</p> <ol style="list-style-type: none"> 1. Login as guest 2. Search with filters 3. View the listed property which satisfies the condition 	The host is able to set the various filters and view postings which matches the search criteria.
6	<p>Edit Posting</p> <ol style="list-style-type: none"> 1. Login as admin 2. Go to "List Property" 3. Edit the price for a posting 	<p>The host is able to edit the posting. If there is a reservation against the posting, the reservation price is not adjusted.</p> <p>In the future reservations, the changes reflects.</p>
7.	<p>Posting Availability Change</p> <ol style="list-style-type: none"> 1. Host changes the availability of a property which is reserved ten days from now for 200\$ and removes the monday availability and guest has not checked-in and his start date is 8 days from now 2. Host changes the availability of a property which is reserved five days from now for 200\$ and removes the monday, tuesday availability and guest has checked-in already he still has 2 more days of stay. host has agreed for penalty 3. Host changes the availability of a property which is reserved five days from now for 200\$ and removes the monday, tuesday 	<p>In case 1 , the reservation gets cancelled without any penalty and posting is updated.</p> <p>In case 2, host can update posting since host has agreed for penalty , which is 15% of the reservation price.</p> <p>In case 3, posting is not updated as he did not agree for penalty.</p>

	<p>availability and guest has checked-in already he still has 2 more days of stay.</p> <p>host has disagreed for penalty</p>	
8	<p>One host can own multiple places.</p> <p>Create multiple postings by single host</p>	Was able to create multiple postings successfully.
9.	<p>Notifications and stats</p> <p>Host chooses to see all past reservations</p>	Host can see all the past reservation choosing the past drop-down of stats
10	<p>Search for Postings:</p> <p>Guest will input the city name(San Jose)</p> <p>And time frame needed</p>	<ul style="list-style-type: none"> - Able to see the postings for that particular time frame in San Jose. - Pagination available for postings. - Each posting can be seen in detail.
11	<p>Book reservation :</p> <ul style="list-style-type: none"> - Guest reserves booking - Guest checked in 	<ul style="list-style-type: none"> - After booking reservation guest will be able to see booking under reservations dashboard - Guest checked in - Guest checked out

	<ul style="list-style-type: none"> -Guest checked out - Guest canceled reservation 	<ul style="list-style-type: none"> - Guest reservation cancelled - Payment and transaction made for check in and cancel and early checkouts - For all the above use cases, email notifications are sent to user
12	<ul style="list-style-type: none"> Reviews and ratings -Guest rated posting - Guest gave review for posting - Host rated guest 	<ul style="list-style-type: none"> - Host can see guest ratings and reviews - Guest can see rating he has given in his dashboard
13	<ul style="list-style-type: none"> Payments and Transactions. Guest will check-in the place at 4 P.M 	<p>Transaction will be created for both guest and host For the respective use-cases.</p>
14	Advance time	User can change system time to test features

7.Lessons learned

We learned how to write an application in a modular fashion - as to how to break down a back end service to different components like controllers, services, dao . This helps the code to scale. This helps isolate errors.

We learned the importance of writing schema which is normalized, which helped avoid redundancy and inconsistent dependency.

We followed coding best practices which helped us specifically during the deployment phase .

- We separated config from code, and so it was easy to change urls and re-deploy
- We dockerized the backend code, so it was easy to run the application for testing across multiple applications and easy to deploy in AWS.

8. Possible future work

- Enhancements in the presentation layer (frontend) to better support mobile devices such as tablets, smartphones

- Improve service availability and scalability by deploying the business tier of the application as containers with Kubernetes