Lab 3 Report

Name: Darshil Kapadia

013007280

Git-Repo:

https://github.com/Anuragis/CMPE273-36.git

HomeAway using NodeJS, ReactJS and GraphQL

Introduction:

Goals of the system:

- The goal of this system is to get the basic understanding of GraphQL. Along with that, its goal is to help understand setting of Apollo Client on the React Client. Using this client, we will be able to request the GraphQL server set up at the backend side.
- In order to develop this application, we will get a wide understanding of different concepts of GraphQL like queries, mutations, GraphQL Scalar Types and many more.
- Instead of RestAPI, we will be using only one route where all of our requests from the frontend will go and will be served.
- This application will also help us in widening the backend i.e NodeJS concepts because of different operations like communication of GraphQL with MongoDB, managing session, encrypting passwords using bcrypt, protecting routes using JWT and Passport and many more.

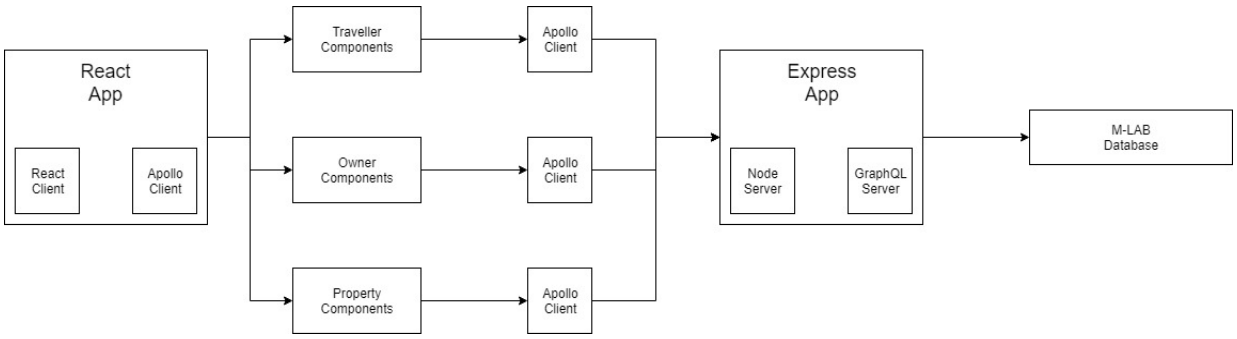
Purpose of the system:

- The purpose of the system is to connect different property listers and the travelers who will access these listed properties.
- The system will allow different owners of properties around the globe to rent their properties on the system and in turn help them to earn through it.
- For travelers, this system will allow them to search for different properties all around the world and booking the one they want to rent.
- This system will take care of booking and listing of properties with proper session management.

System Design:

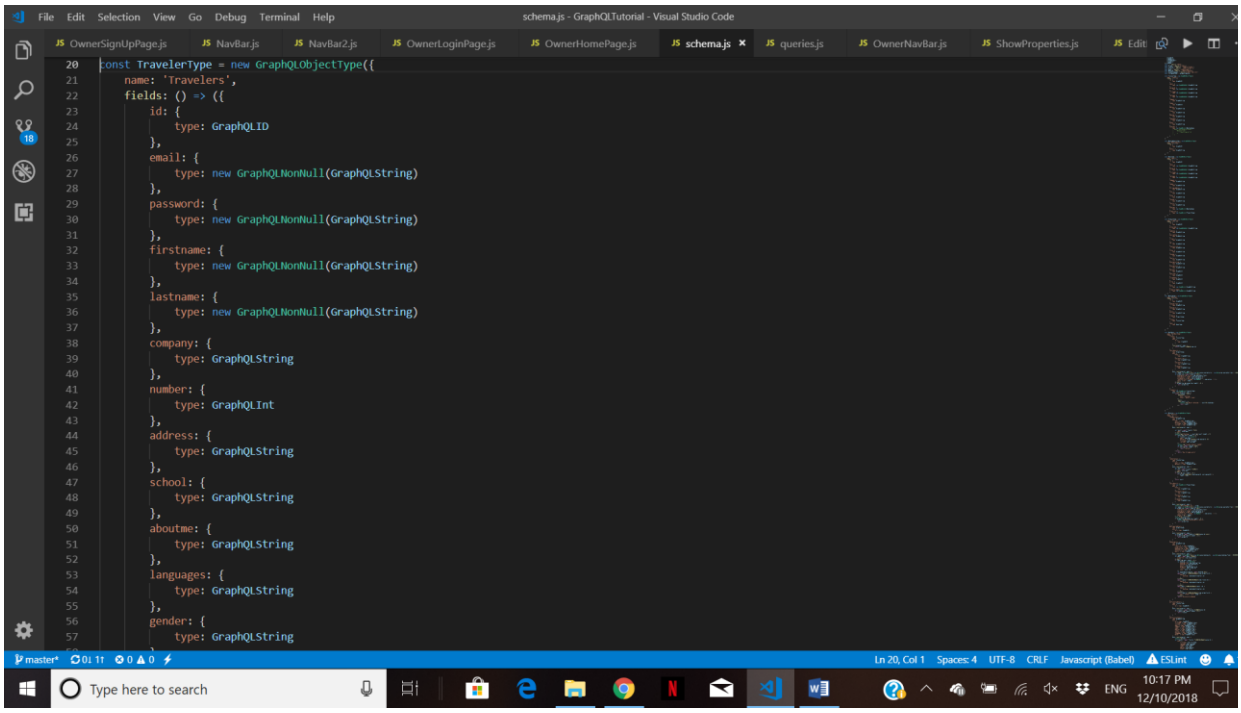
- The system is a HomeAway application used to achieve the goals of the system mentioned above. For UI, ReactJS and Redux is used and GraphQL handles the server and MongoDB serves as a Database.
- The request received from the client is passed to Apollo Client which interacts with the GraphQL Server set up on the backend side.
- After the requests has been received by the GraphQL server, it will serve that request using query or mutation.
- While serving the request, GraphQL Server also communicates with M-Lab for proper database transactions.

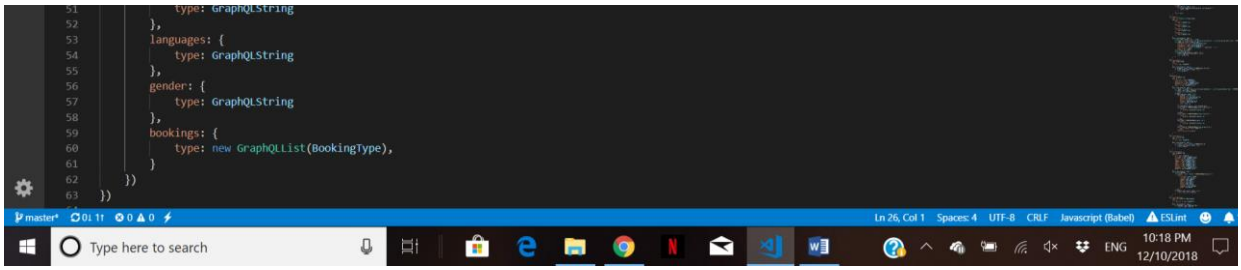
Complete Flow:



GraphQL ObjectTypes

TravelerType:




type: GraphQLString
},
languages: {
type: GraphQLString
},
gender: {
type: GraphQLString
},
bookings: {
type: new GraphQLList(BookingType),
}
})
})
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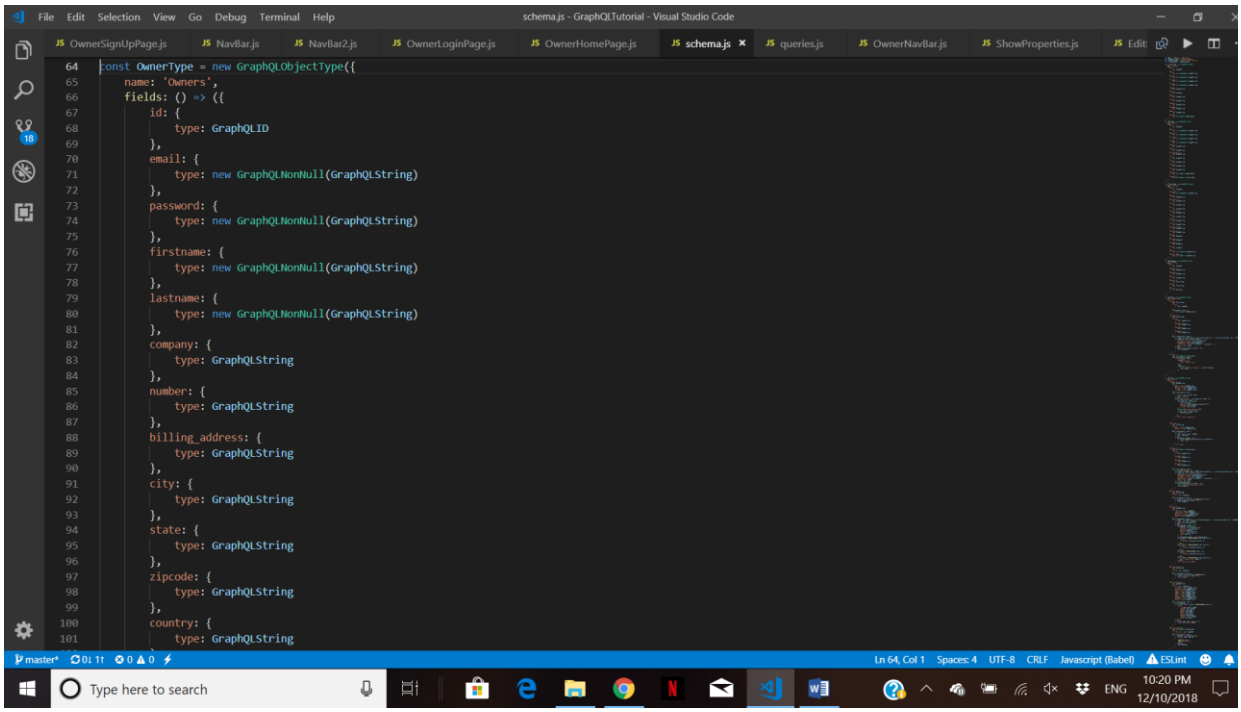
OwnerType:


File Edit Selection View Go Debug Terminal Help
schema.js - GraphQLTutorial - Visual Studio Code
OwnerSignUpPage.js
NavBar.js
NavBar2.js
OwnerLoginPage.js
OwnerHomePage.js
schema.js
queries.js
OwnerNavBar.js
ShowProperties.js
const OwnerType = new GraphQLObjectType({
name: 'Owners',
fields: () => ({
id: {
type: GraphQLID
},
email: {
type: new GraphQLNonNull(GraphQLString)
},
password: {
type: new GraphQLNonNull(GraphQLString)
},
firstname: {
type: new GraphQLNonNull(GraphQLString)
},
lastname: {
type: new GraphQLNonNull(GraphQLString)
},
company: {
type: GraphQLString
},
number: {
type: GraphQLString
},
billing_address: {
type: GraphQLString
},
city: {
type: GraphQLString
},
state: {
type: GraphQLString
},
zipcode: {
type: GraphQLString
},
country: {
type: GraphQLString
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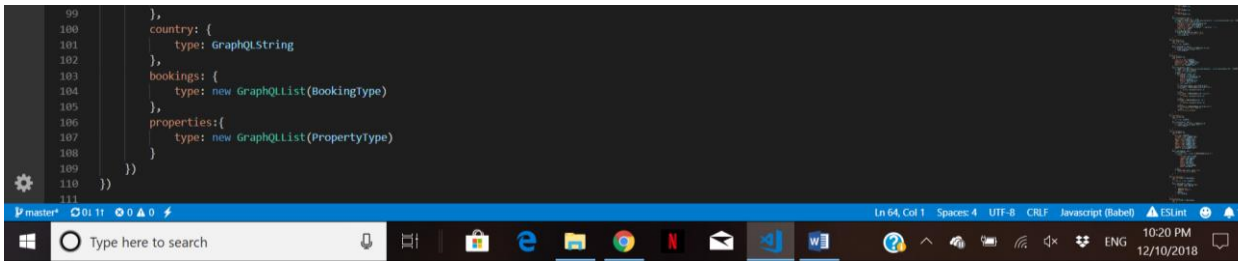
},
country: {
type: GraphQLString
},
bookings: {
type: new GraphQLList(BookingType)
},
properties:{
type: new GraphQLList(PropertyType)
}
})
})
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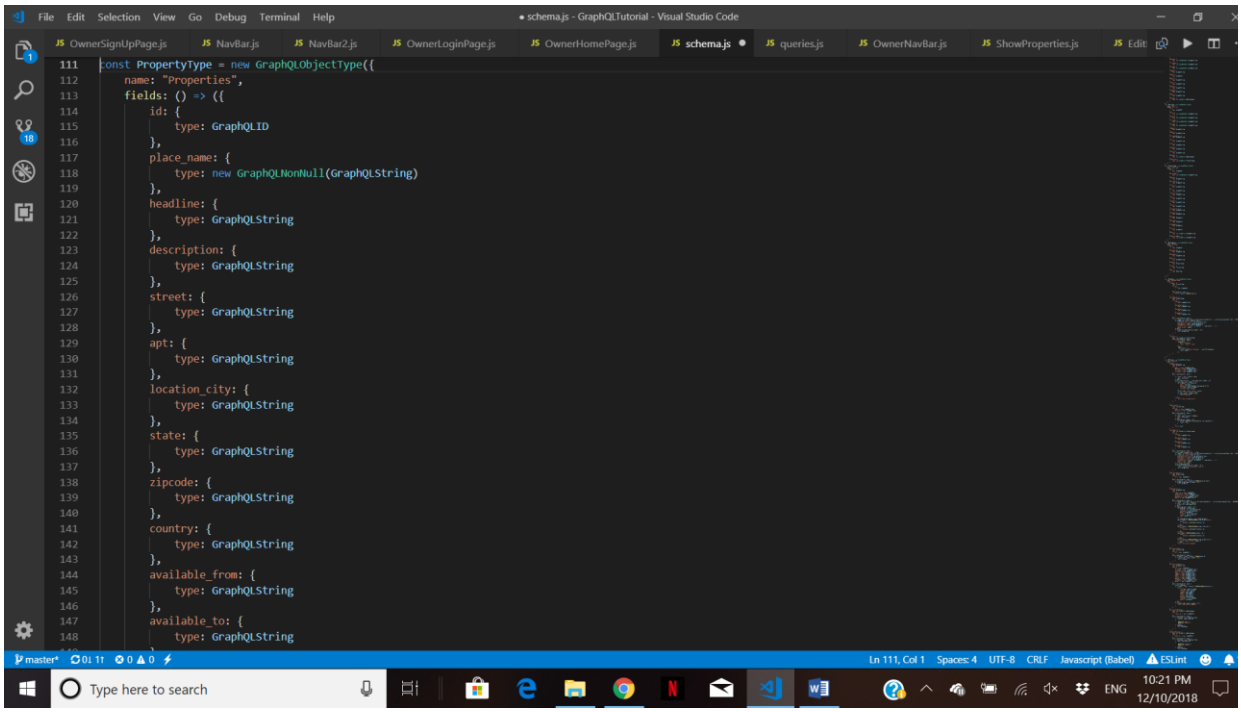
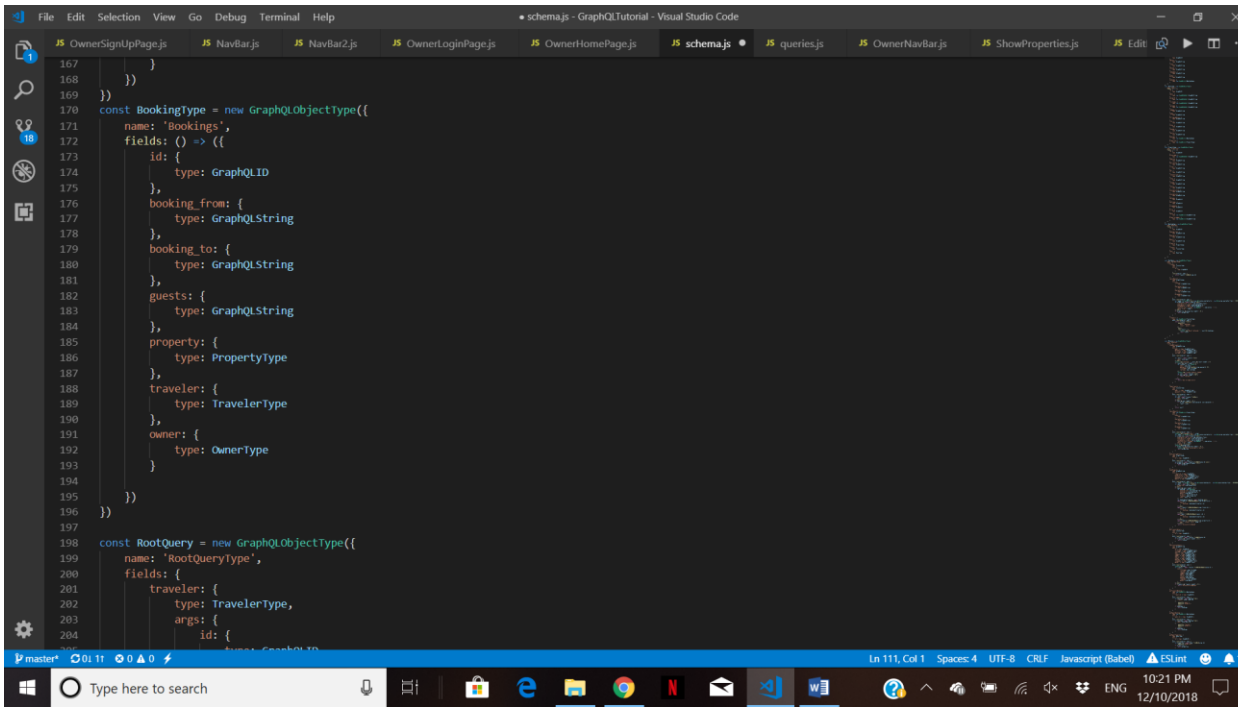
PropertyType:

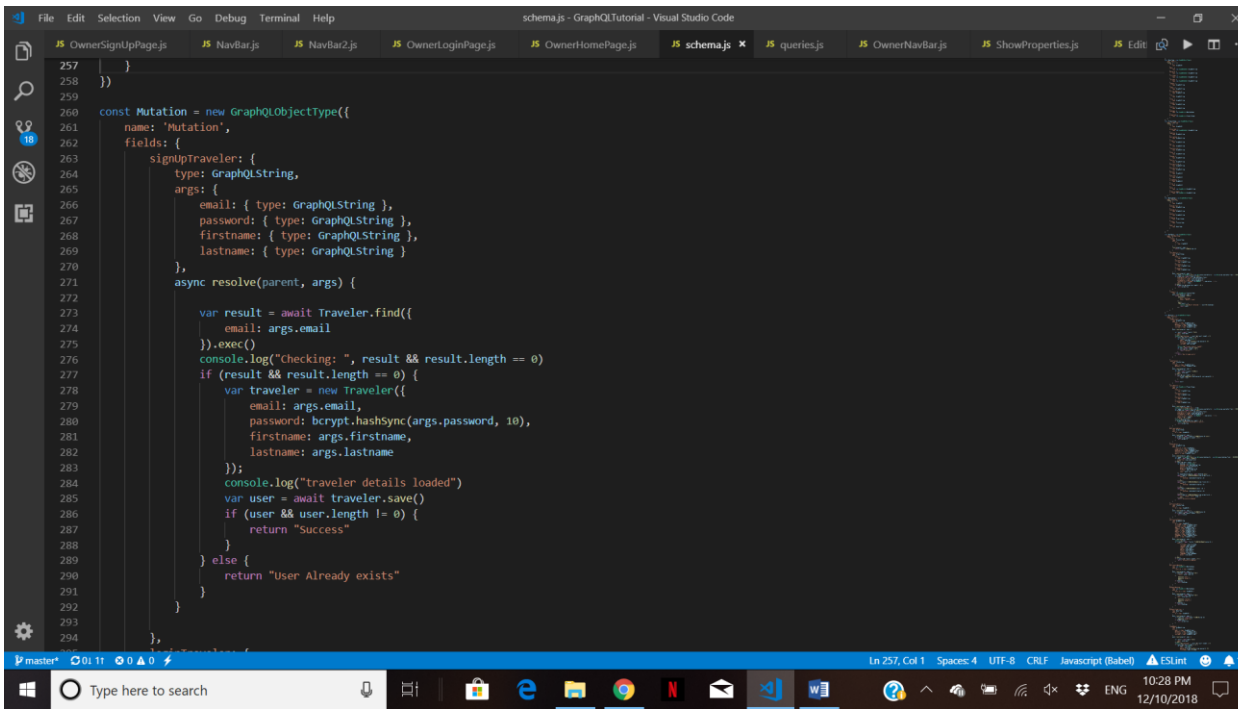


BookingType:

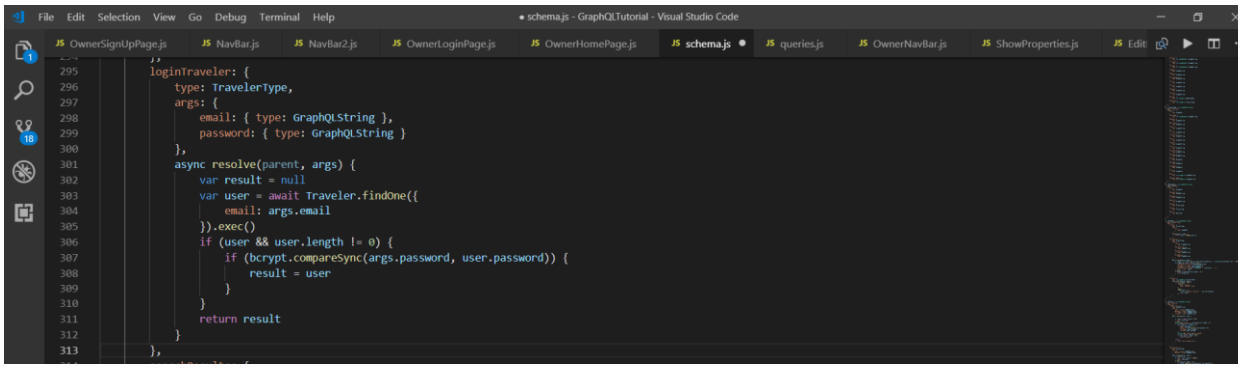


GraphQL Queries and Mutations

Traveler SignUp Mutation

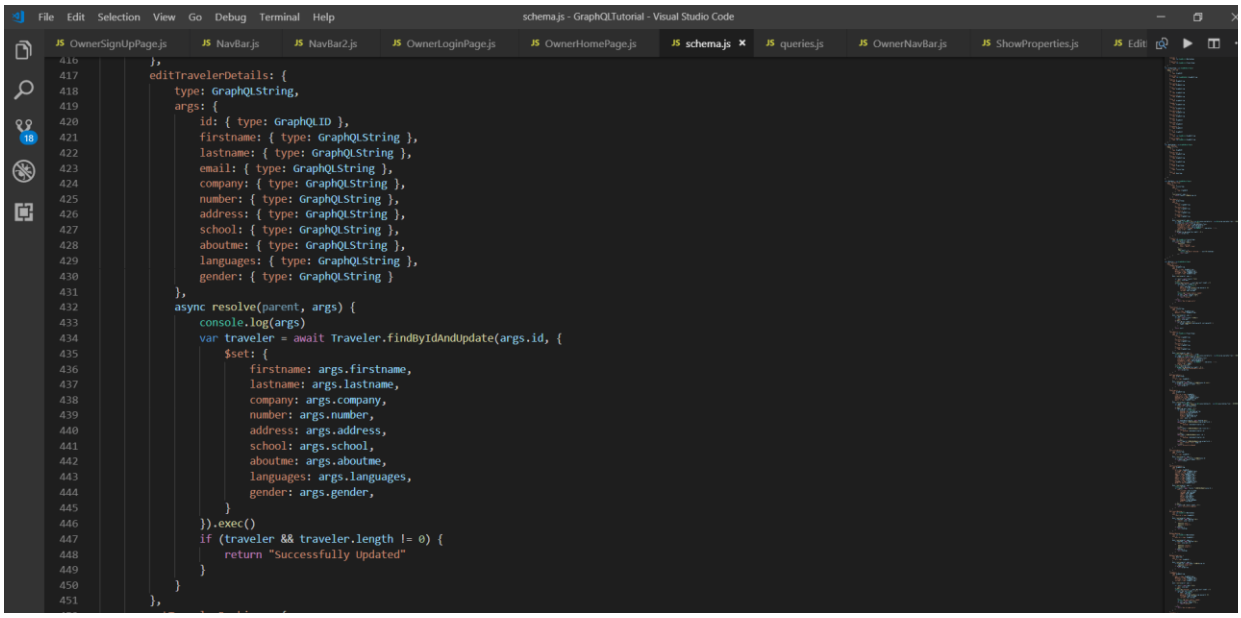


Traveler Login Query



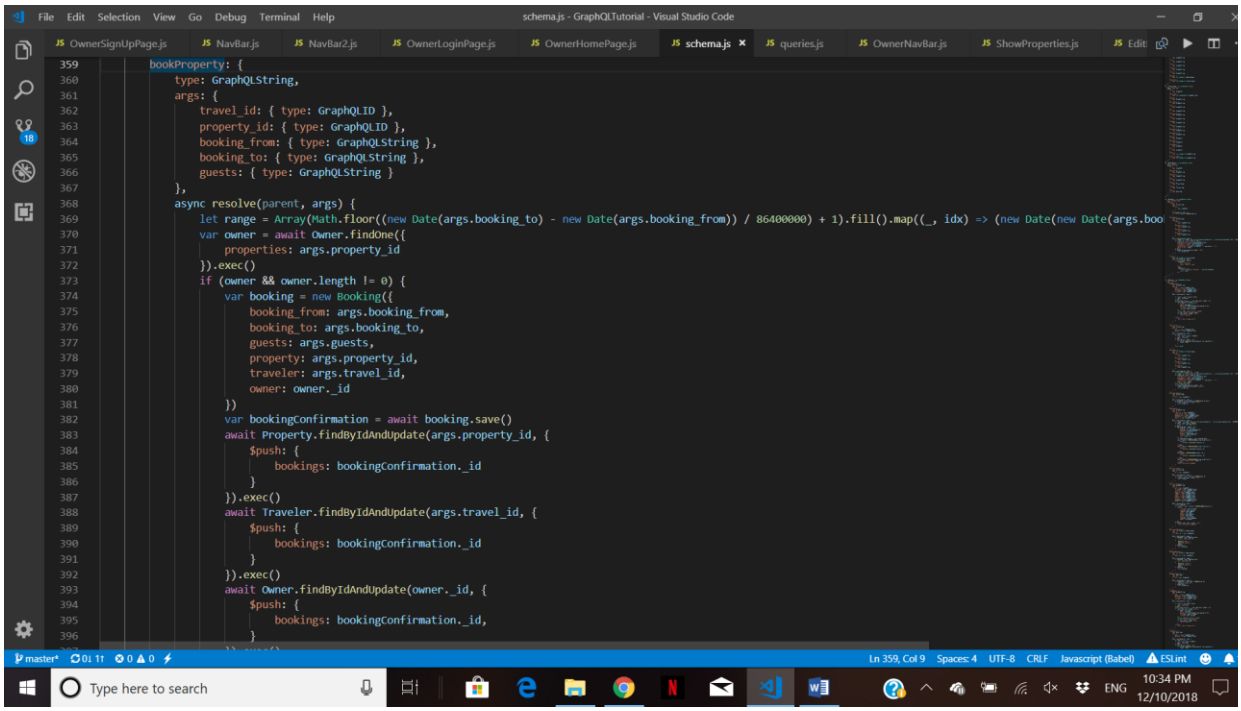
Getting Traveler Details based on particular ID

Editing Traveler Details



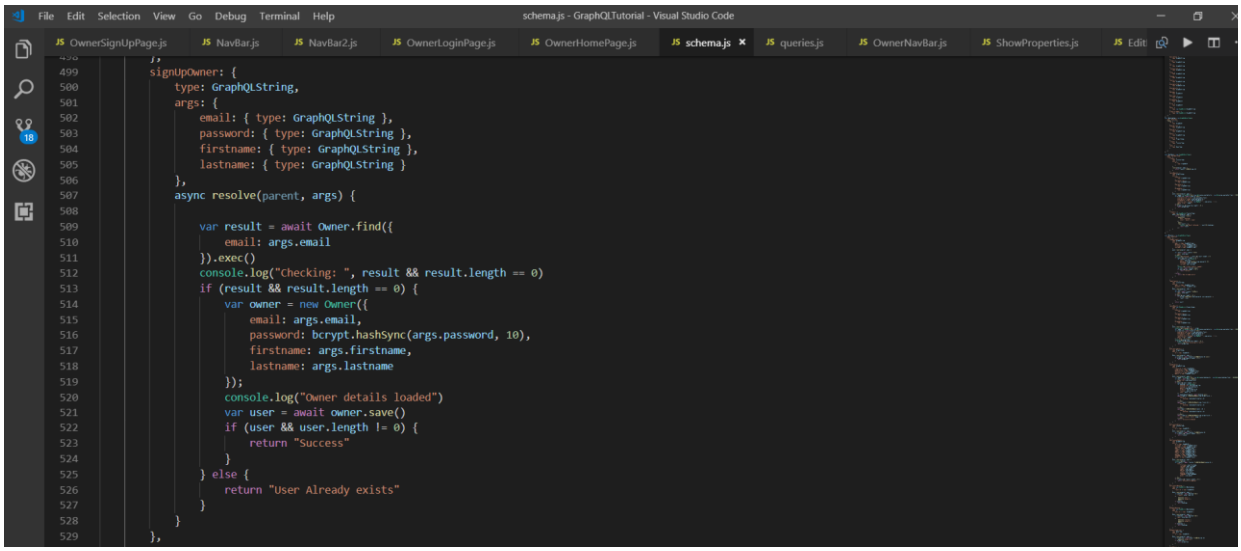
Searching for a property

Booking a property

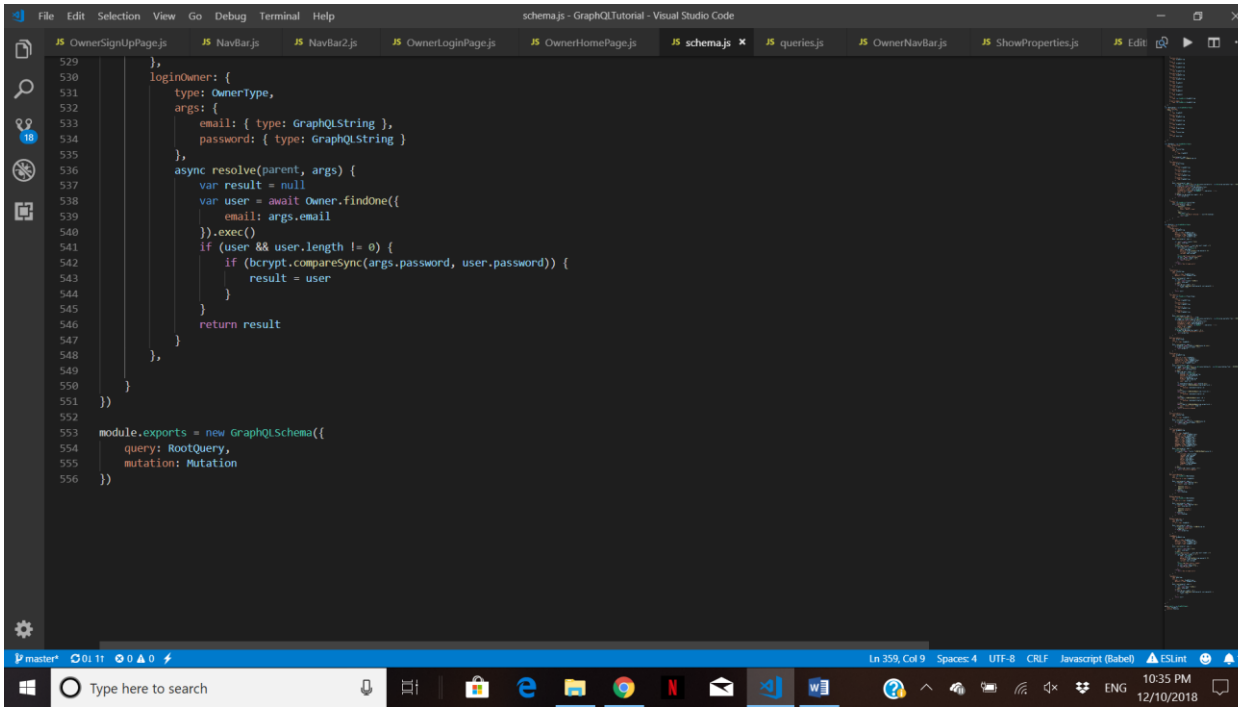


Showing Traveler's Dashboard

SignUp Owner



Login Owner



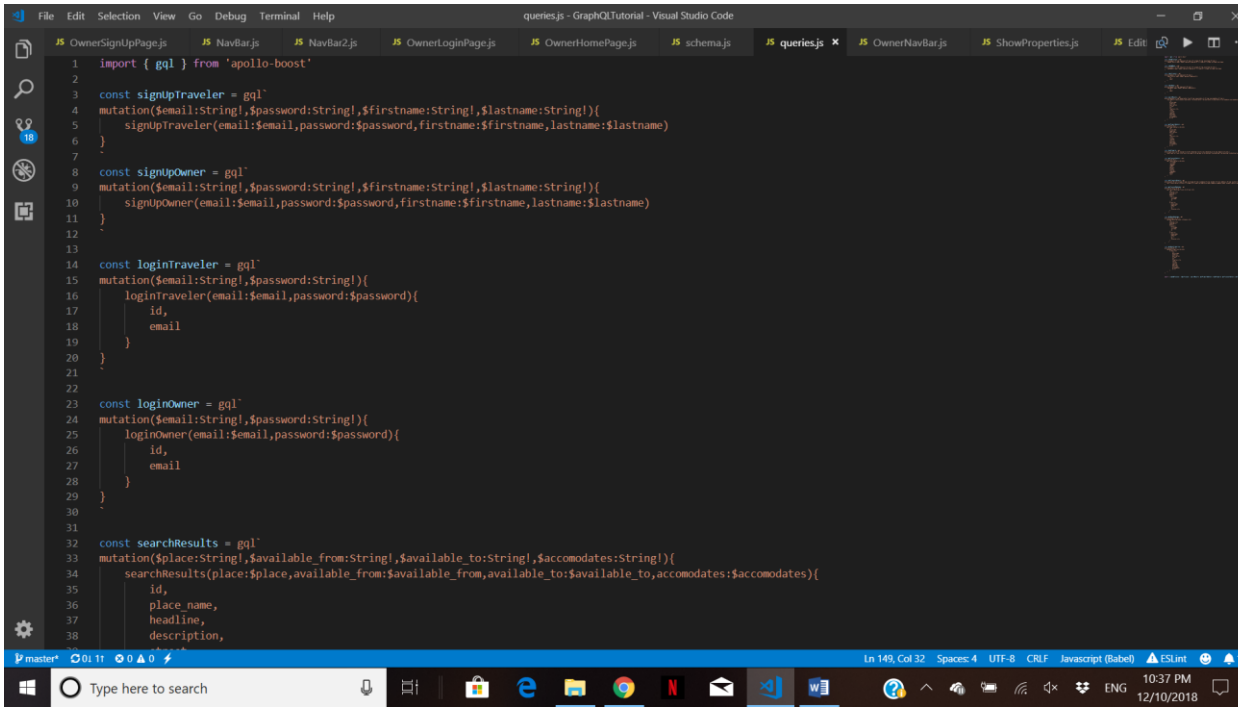
Listing all the properties of a particular owner

```
    },
    getOwnerProperties: {
        type: OwnerType,
        args: {
            id: { type: GraphQLID }
        },
        async resolve(parent, args) {
            var properties = await Owner.findById(args.id)
                .populate('properties')
            if (properties) {
                return properties
            }
        }
    },
```

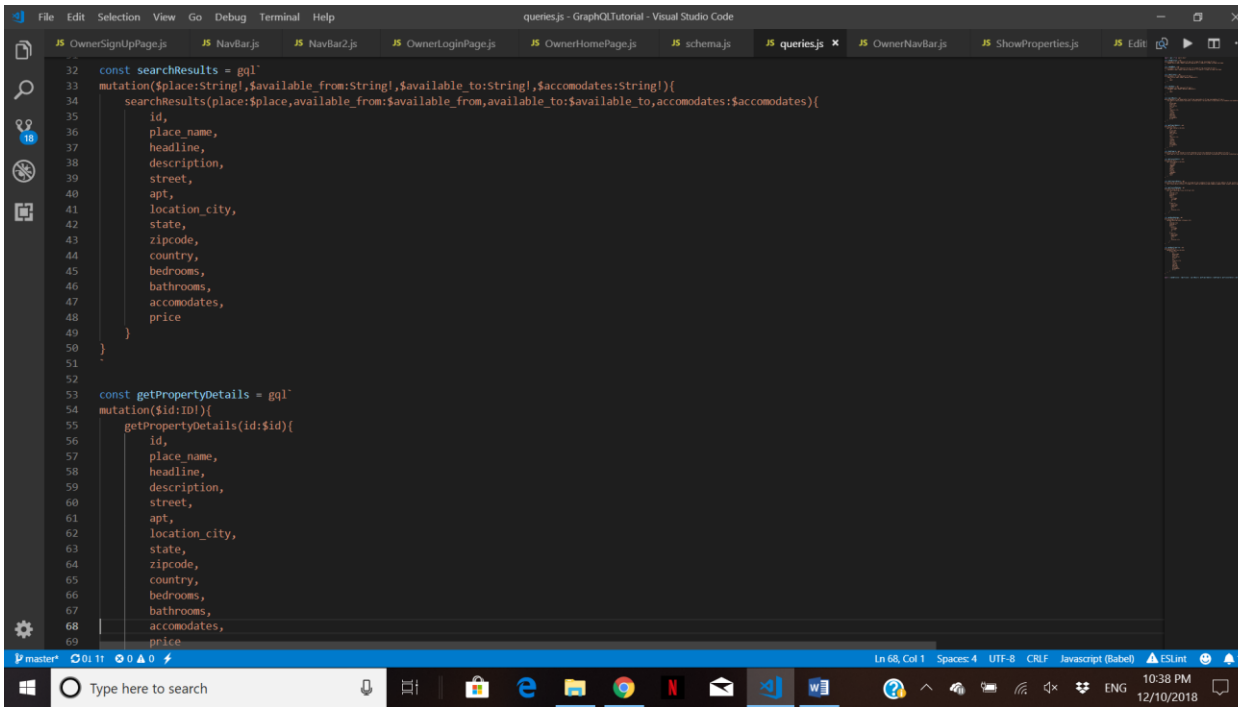
Showing Dashboard of the Owner

```
    },
    getOwnerBookings: {
        type: new GraphQLList(BookingType),
        args: {
            owner_id: { type: GraphQLID }
        },
        async resolve(parent, args) {
            var bookings = await Booking.find({
                owner: args.owner_id
            })
                .populate('traveler')
                .populate('property')
                .exec()
            if (bookings) {
                return bookings
            }
        }
    },
```

Client Side Queries and Mutations



```
import { gql } from 'apollo-boost'

const signUpTraveler = gql`
mutation($email:String!,$password:String!,$firstname:String!,$lastname:String!){
    signUpTraveler(email:$email,password:$password,firstname:$firstname,lastname:$lastname)
}
`

const signUpOwner = gql`
mutation($email:String!,$password:String!,$firstname:String!,$lastname:String!){
    signUpOwner(email:$email,password:$password,firstname:$firstname,lastname:$lastname)
}
`

const loginTraveler = gql`
mutation($email:String!,$password:String!){
    loginTraveler(email:$email,password:$password){
        id,
        email
    }
}
`

const loginOwner = gql`
mutation($email:String!,$password:String!){
    loginOwner(email:$email,password:$password){
        id,
        email
    }
}
`

const searchResults = gql`
mutation($place:String!,$available_from:String!,$available_to:String!,$accomodates:String!){
    searchResults(place:$place,available_from:$available_from,available_to:$available_to,accomodates:$accomodates){
        id,
        place_name,
        headline,
        description,
```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queries.js - GraphQLTutorial - Visual Studio Code
OwnerSignUpPage.js NavBar.js NavBar2.js OwnerLoginPage.js OwnerHomePage.js schema.js queries.js OwnerNavBar.js ShowProperties.js
const searchResults = gql`
mutation($place:String!,$available_from:String!,$available_to:String!,$accomodates:String!){
searchResults(place:$place,available_from:$available_from,available_to:$available_to,accomodates:$accomodates){
id,
place_name,
headline,
description,
street,
apt,
location_city,
state,
zipcode,
country,
bedrooms,
bathrooms,
accomodates,
price
}
}
`
const getPropertyDetails = gql`
mutation($id:ID!){
getPropertyDetails(id:$id){
id,
place_name,
headline,
description,
street,
apt,
location_city,
state,
zipcode,
country,
bedrooms,
bathrooms,
accomodates,
price
master* 0↓ 1↑ 0 0
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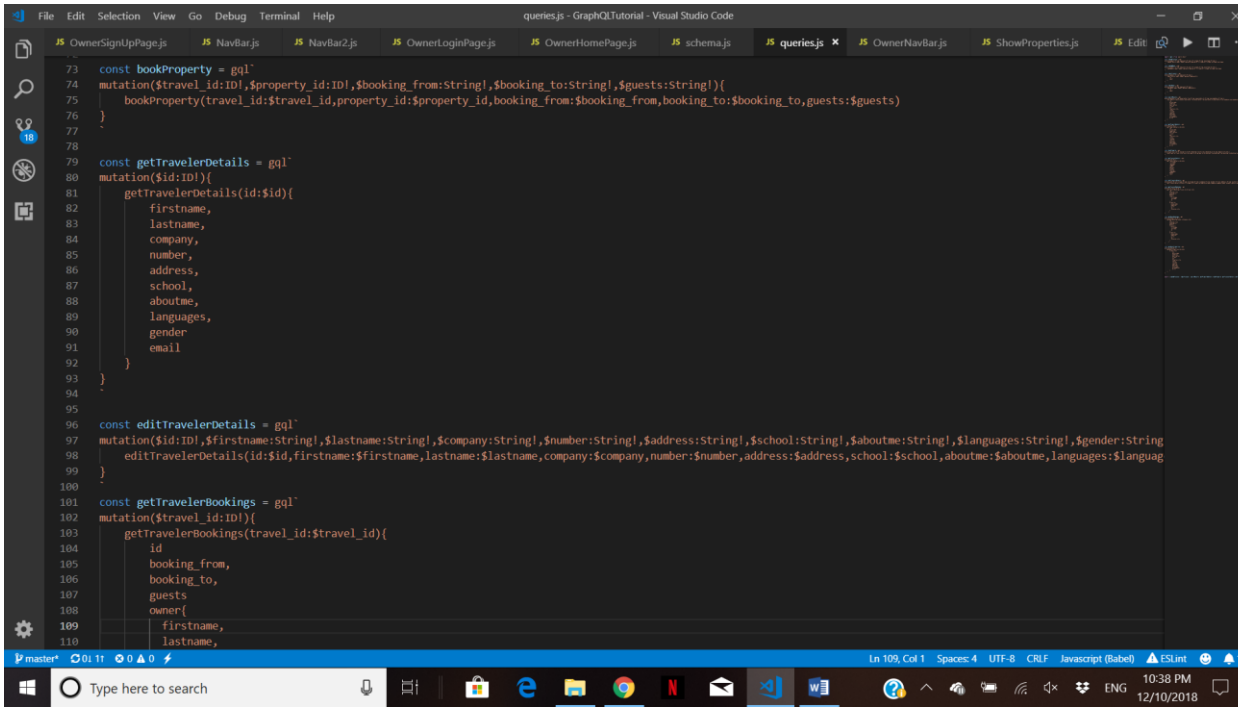
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queries.js - GraphQLTutorial - Visual Studio Code
OwnerSignUpPage.js NavBar.js NavBar2.js OwnerLoginPage.js OwnerHomePage.js schema.js queries.js OwnerNavBar.js ShowProperties.js
const bookProperty = gql`
mutation($travel_id:ID!,$property_id:ID!,$booking_from:String!,$booking_to:String!,$guests:String!){
bookProperty(travel_id:$travel_id,property_id:$property_id,booking_from:$booking_from,booking_to:$booking_to,guests:$guests)
}
`
const getTravelerDetails = gql`
mutation($id:ID!){
getTravelerDetails(id:$id){
firstname,
lastname,
company,
number,
address,
school,
aboutme,
languages,
gender
email
}
}
`
const editTravelerDetails = gql`
mutation($id:ID!,$firstname:String!,$lastname:String!,$company:String!,$number:String!,$address:String!,$school:String!,$aboutme:String!,$languages:String!,$gender:String
editTravelerDetails(id:$id,firstname:$firstname,lastname:$lastname,company:$company,number:$number,address:$address,school:$school,aboutme:$aboutme,languages:$languag
}
`
const getTravelerBookings = gql`
mutation($travel_id:ID!){
getTravelerBookings(travel_id:$travel_id){
id
booking_from,
booking_to,
guests
owner{
firstname,
lastname,
master* 0↓ 1↑ 0 0
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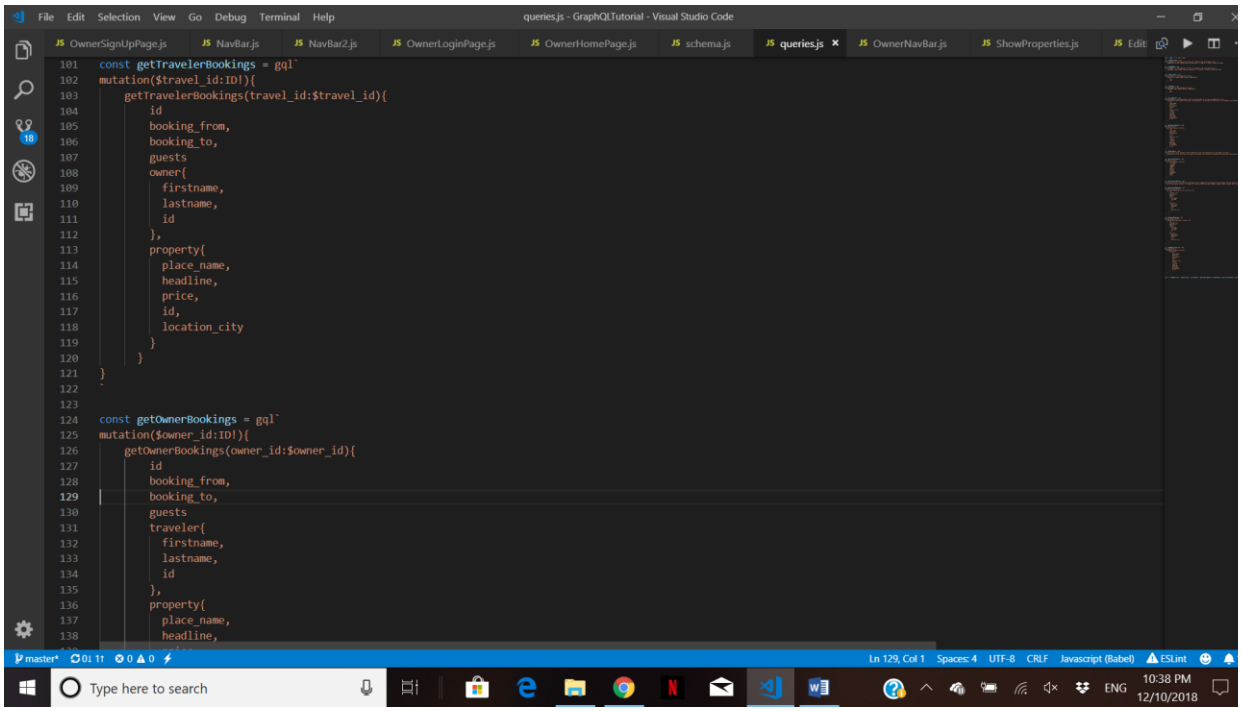
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queries.js - GraphQLTutorial - Visual Studio Code
OwnerSignUpPage.js NavBar.js NavBar2.js OwnerLoginPage.js OwnerHomePage.js schema.js queries.js OwnerNavBar.js ShowProperties.js
const getTravelerBookings = gql`
mutation($travel_id:ID!){
getTravelerBookings(travel_id:$travel_id){
id
booking_from,
booking_to,
guests
owner{
firstname,
lastname,
id
},
property{
place_name,
headline,
price,
id,
location_city
}
}
}
`
const getOwnerBookings = gql`
mutation($owner_id:ID!){
getOwnerBookings(owner_id:$owner_id){
id
booking_from,
booking_to,
guests
traveler{
firstname,
lastname,
id
},
property{
place_name,
headline,
master*
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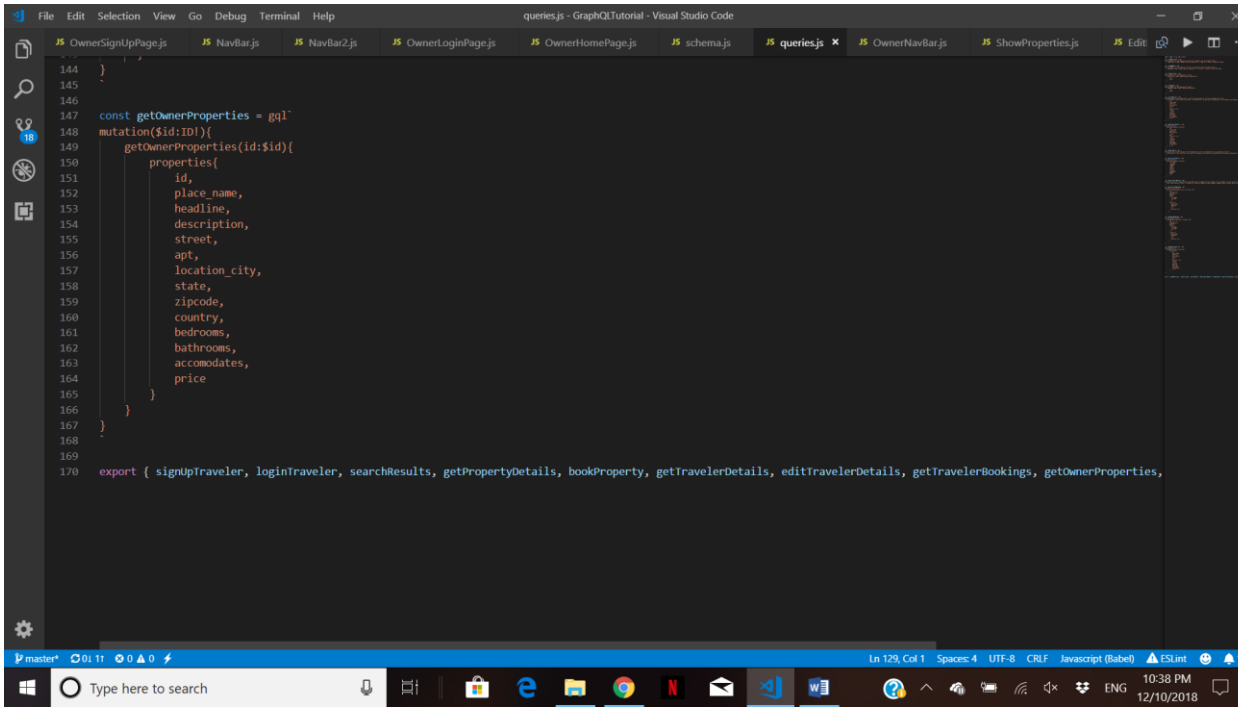
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queries.js - GraphQLTutorial - Visual Studio Code
OwnerSignUpPage.js NavBar.js NavBar2.js OwnerLoginPage.js OwnerHomePage.js schema.js queries.js OwnerNavBar.js ShowProperties.js
}
`
const getOwnerProperties = gql`
mutation($id:ID!){
getOwnerProperties(id:$id){
properties{
id,
place_name,
headline,
description,
street,
apt,
location_city,
state,
zipcode,
country,
bedrooms,
bathrooms,
accomodates,
price
}
}
}
`
export { signUpTraveler, loginTraveler, searchResults, getPropertyDetails, bookProperty, getTravelerDetails, editTravelerDetails, getTravelerBookings, getOwnerProperties,
master*
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Test Cases and Results

We'll consider different cases and will visit them one by one. The use cases that I'll be discussing are as follows:

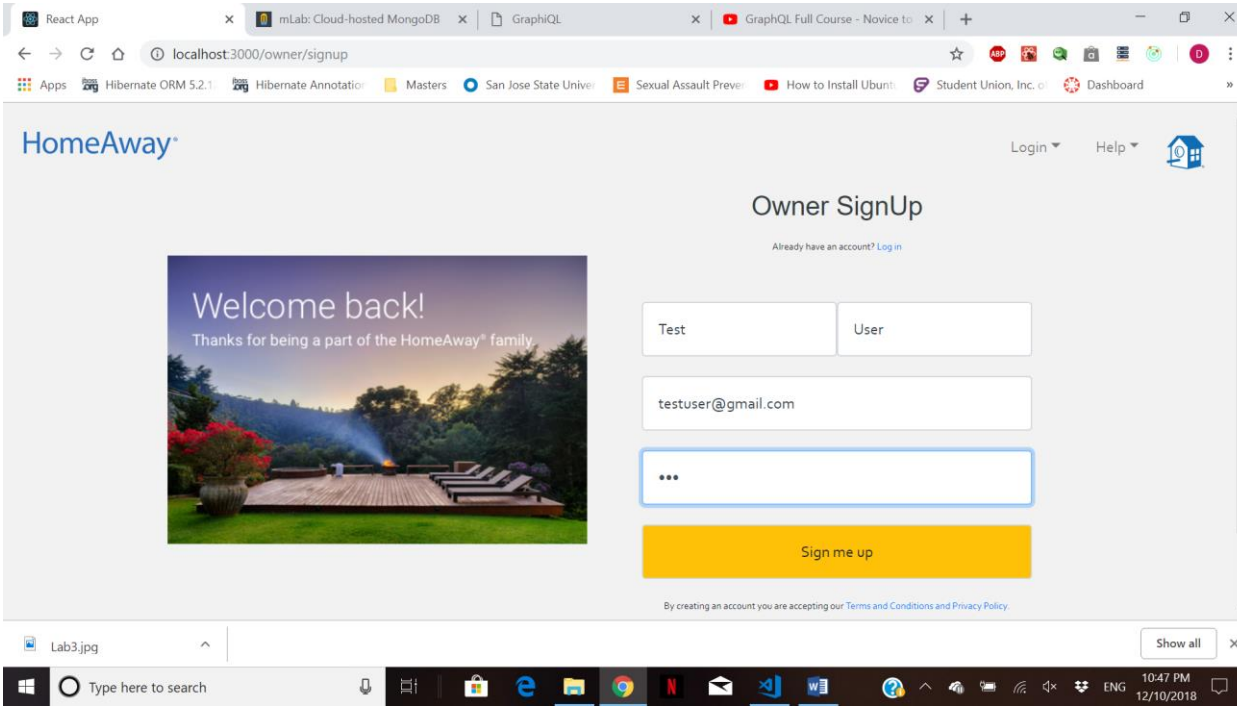
1) **Creating a new owner account.**
2) **Logging in with the newly created owner account.**
3) **Listing all the properties of an existing owner account.**
4) **Logging off from the owner account.**
5) **Creating a new travel account.**
6) **Logging in with the newly created travel account.**
7) **Editing the basic details of travel account.**
8) **Searching a property based on "city, arrival, departure and # of guests".**
9) **Displaying the result of the above search and filtering through it.**
10) **Selecting a property from search result and booking it with the travel account.**
11) **Looking at the recent trips that the traveler has booked and filtering through it.**
12) **Logging off from the travel account.**
13) **Looking at Owner's Dashboard.**

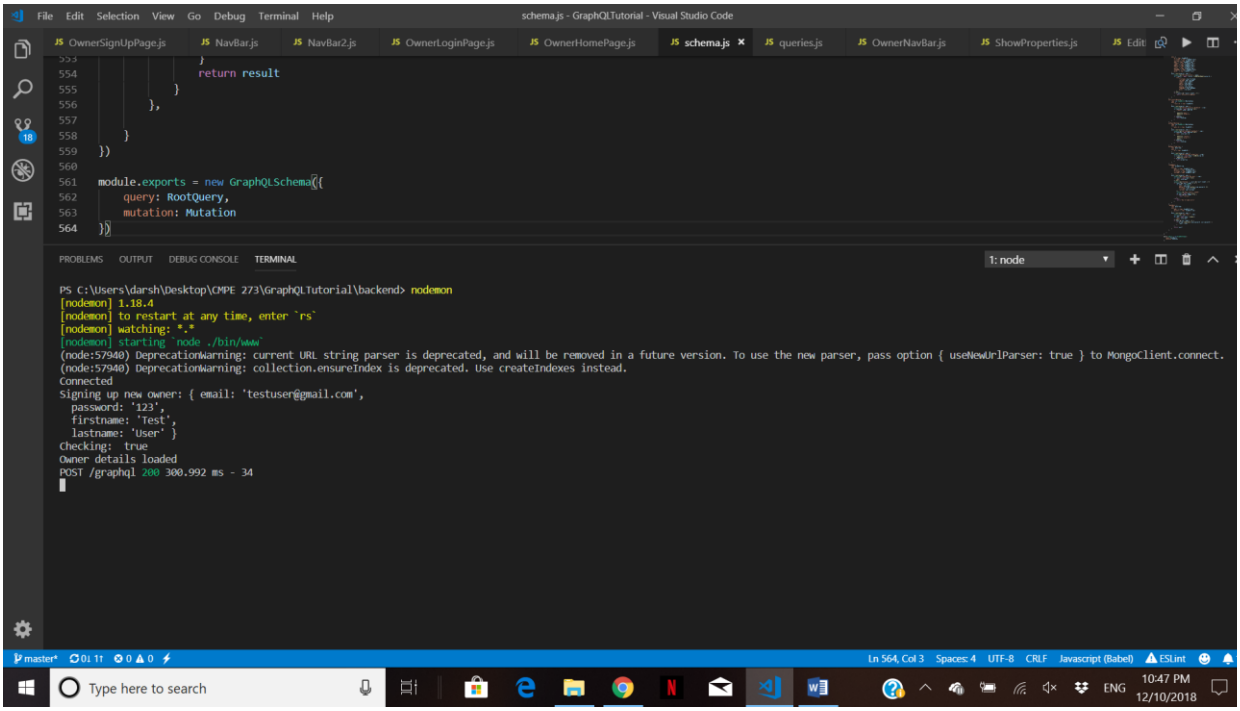
We'll also consider different use cases which will have invalid inputs in form like arrival date is after the departure date and many more. Different use cases that we'll consider for validations are as follows:

1) **Keeping the email/password field empty**
2) **Logging in with incorrect credentials**
3) **Searching the property without location city or arrival date or departure date or guests.**
4) **Editing the information and keeping required fields like name, contact no blank.**

Test Cases:

Creating a new owner account

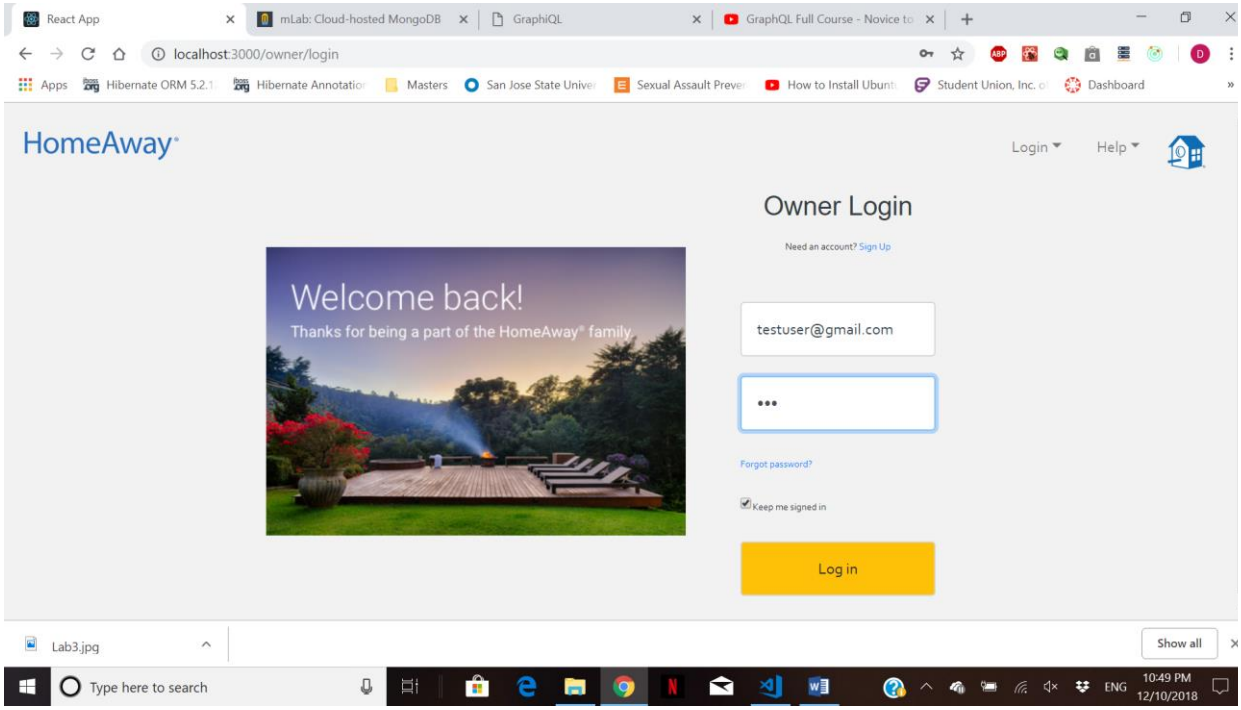


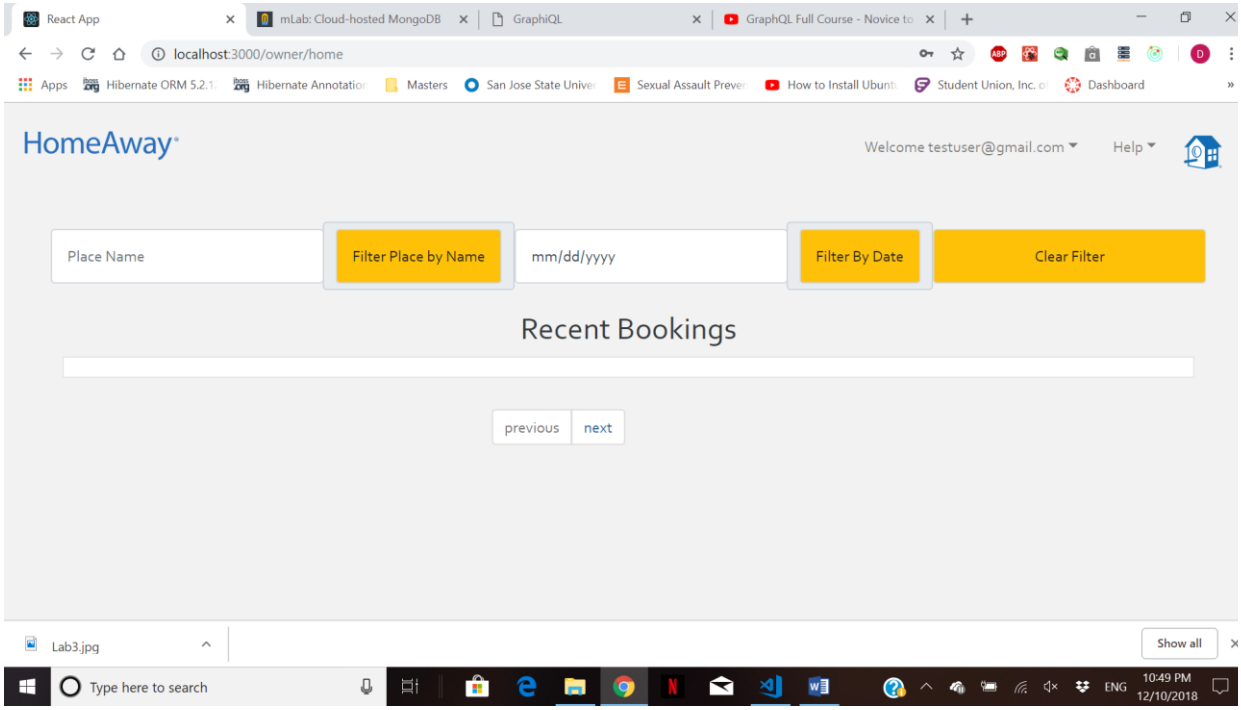


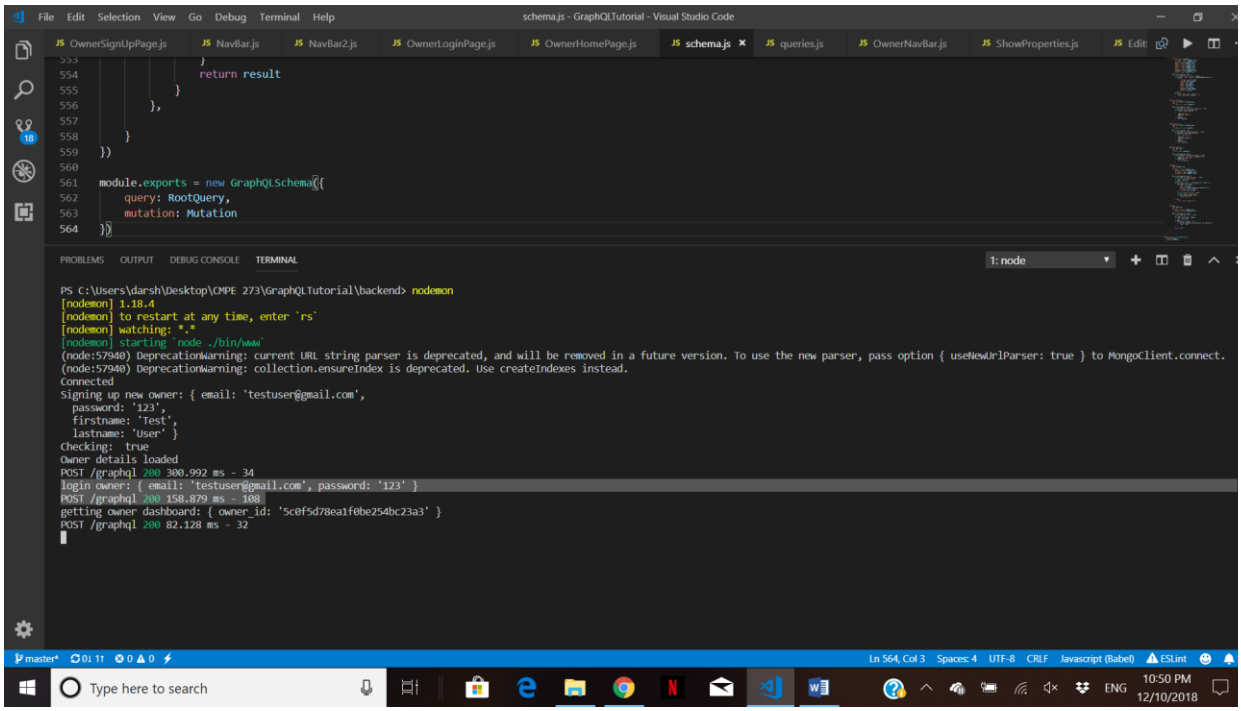
Explanation:

- A new owner will be created named “test user” and login credentials of testuser@gmail.com and the password encrypted with bcrypt.

Logging in with the newly created owner account





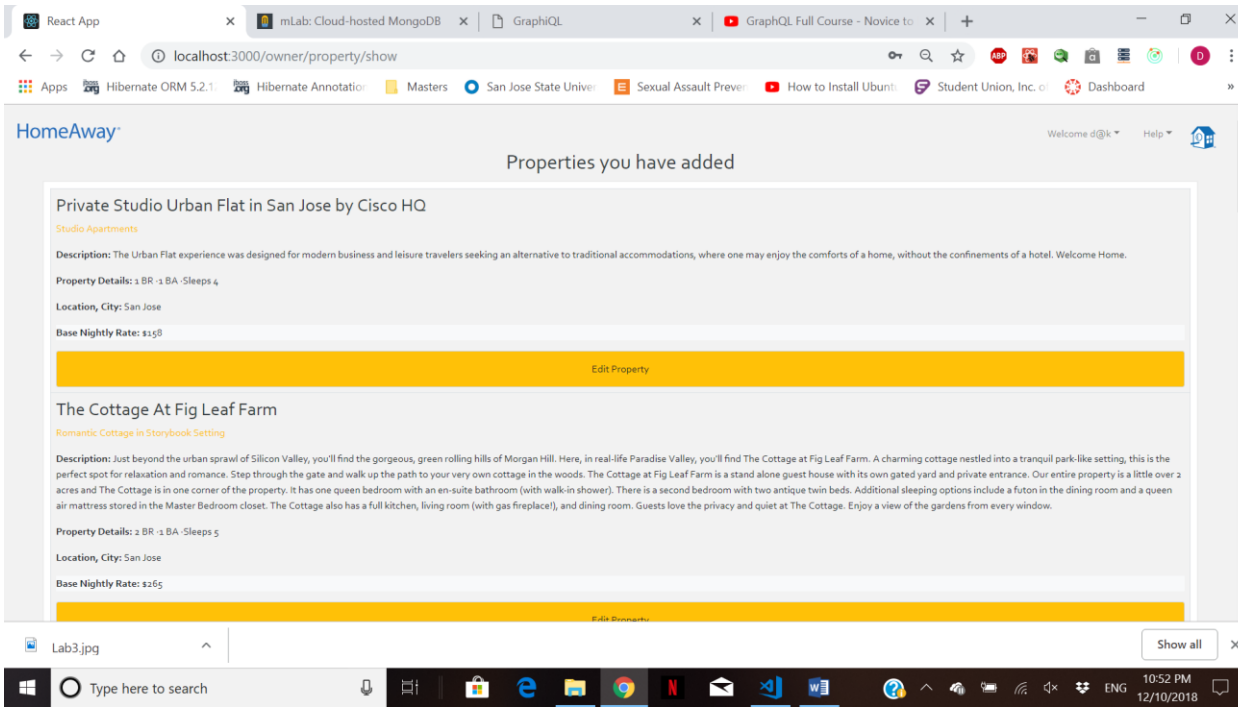


Explanation:

- The owner logged in using his login credentials.
- Notice the navigation bar, when the owner has not logged in and thus getting the option of "Login" only at the top.
- Please note the change once we login, the navigation bar now has welcome testuser@gmail.com on top.

Displaying the properties listed by the owner

We are logging into Owner: Darshil Kapadia who has previously posted many properties.


React App
mLab: Cloud-hosted MongoDB
GraphiQL
GraphQL Full Course - Novice to
localhost:3000/owner/property/show
Apps
Hibernate ORM 5.2.1
Hibernate Annotatio
Masters
San Jose State Unive
Sexual Assault Preve
How to Install Ubunt
Student Union, Inc. o
Dashboard
HomeAway
Welcome d@k
Help
Properties you have added
Private Studio Urban Flat in San Jose by Cisco HQ
Studio Apartments
Description: The Urban Flat experience was designed for modern business and leisure travelers seeking an alternative to traditional accommodations, where one may enjoy the comforts of a home, without the confinements of a hotel. Welcome Home.
Property Details: 1 BR ·1 BA ·Sleeps 4
Location, City: San Jose
Base Nightly Rate: $158
Edit Property
The Cottage At Fig Leaf Farm
Romantic Cottage in Storybook Setting
Description: Just beyond the urban sprawl of Silicon Valley, you'll find the gorgeous, green rolling hills of Morgan Hill. Here, in real-life Paradise Valley, you'll find The Cottage at Fig Leaf Farm. A charming cottage nestled into a tranquil park-like setting, this is the perfect spot for relaxation and romance. Step through the gate and walk up the path to your very own cottage in the woods. The Cottage at Fig Leaf Farm is a stand alone guest house with its own gated yard and private entrance. Our entire property is a little over 2 acres and The Cottage is in one corner of the property. It has one queen bedroom with an en-suite bathroom (with walk-in shower). There is a second bedroom with two antique twin beds. Additional sleeping options include a futon in the dining room and a queen air mattress stored in the Master Bedroom closet. The Cottage also has a full kitchen, living room (with gas fireplace!), and dining room. Guests love the privacy and quiet at The Cottage. Enjoy a view of the gardens from every window.
Property Details: 2 BR ·1 BA ·Sleeps 5
Location, City: San Jose
Base Nightly Rate: $265
Lab3.jpg
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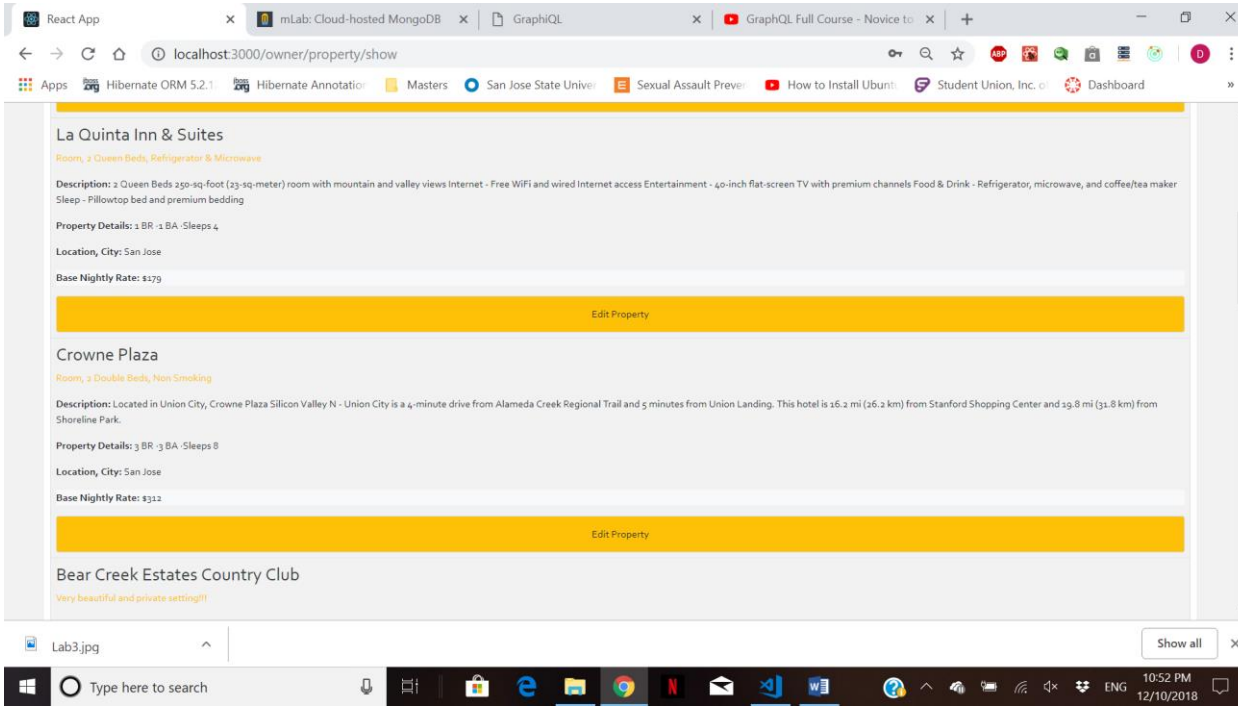
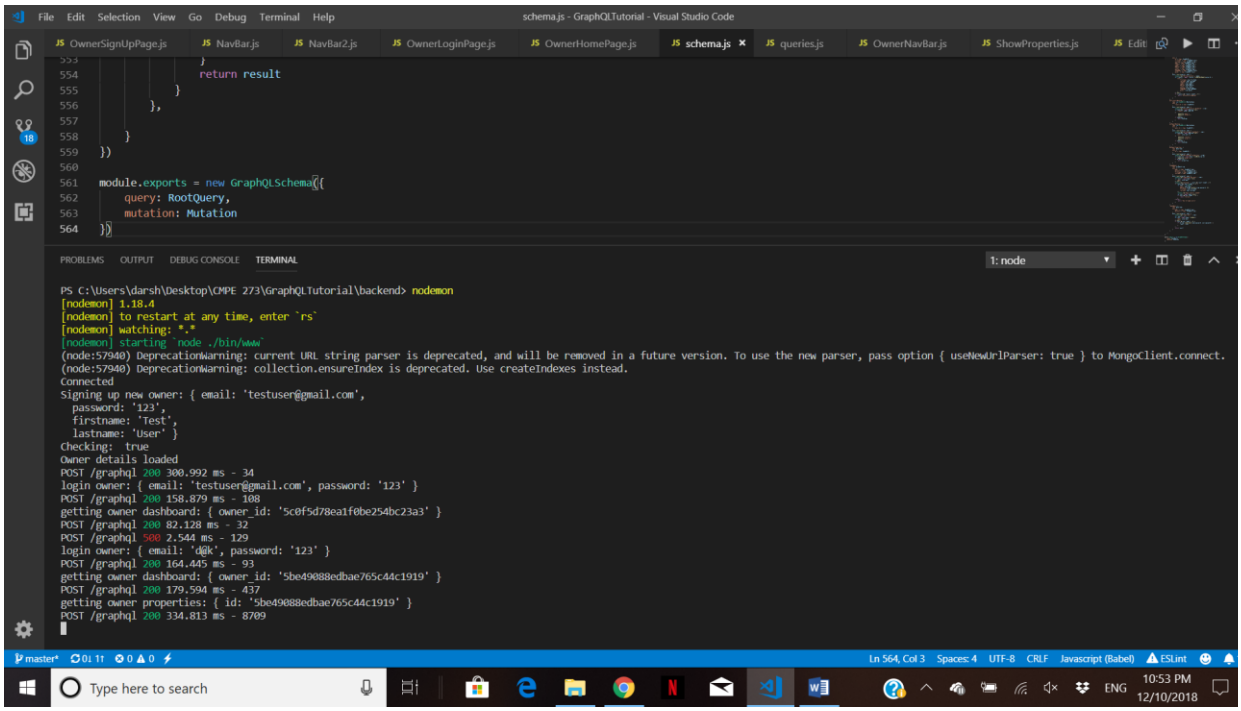
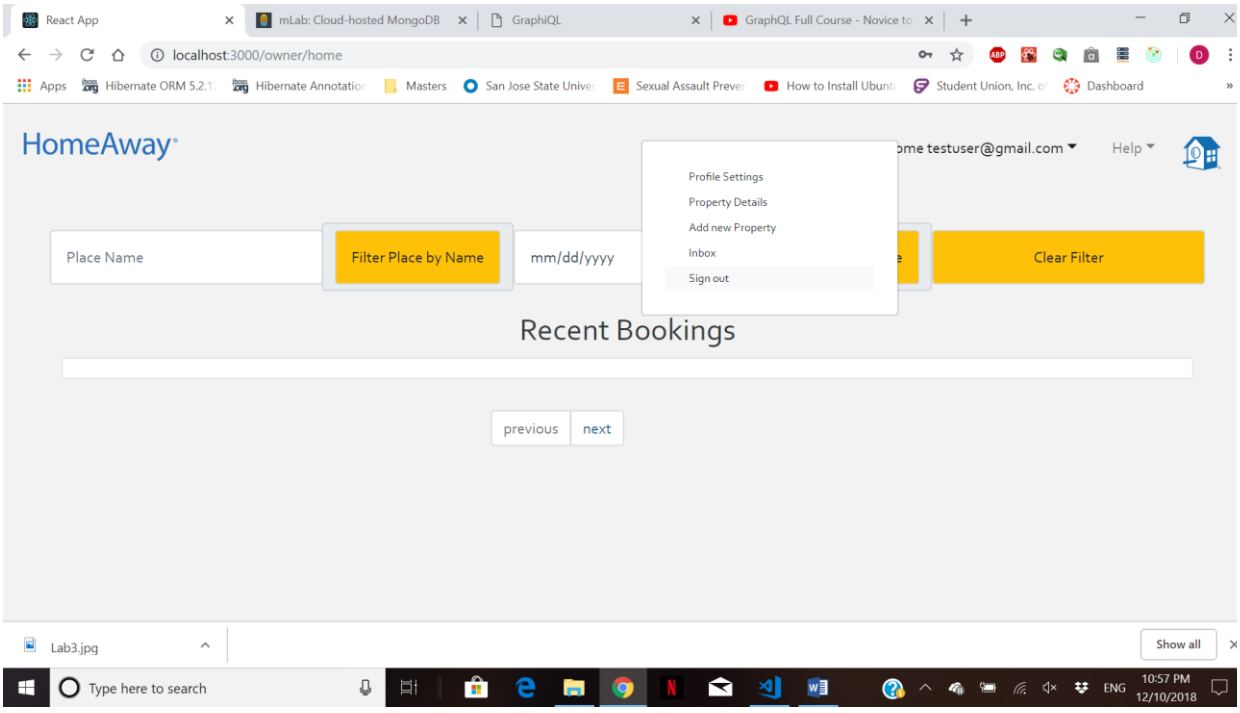

React App
mLab: Cloud-hosted MongoDB
GraphiQL
GraphQL Full Course - Novice to
localhost:3000/owner/property/show
Apps
Hibernate ORM 5.2.1
Hibernate Annotatio
Masters
San Jose State Unive
Sexual Assault Preve
How to Install Ubunt
Student Union, Inc. o
Dashboard
La Quinta Inn & Suites
Room, 2 Queen Beds, Refrigerator & Microwave
Description: 2 Queen Beds 250-sq-foot (23-sq-meter) room with mountain and valley views Internet - Free WiFi and wired Internet access Entertainment - 40-inch flat-screen TV with premium channels Food & Drink - Refrigerator, microwave, and coffee/tea maker Sleep - Pillowtop bed and premium bedding
Property Details: 1 BR ·1 BA ·Sleeps 4
Location, City: San Jose
Base Nightly Rate: $179
Edit Property
Crowne Plaza
Room, 2 Double Beds, Non Smoking
Description: Located in Union City, Crowne Plaza Silicon Valley N - Union City is a 4-minute drive from Alameda Creek Regional Trail and 5 minutes from Union Landing. This hotel is 16.2 mi (26.2 km) from Stanford Shopping Center and 19.8 mi (31.8 km) from Shoreline Park.
Property Details: 3 BR ·3 BA ·Sleeps 8
Location, City: San Jose
Base Nightly Rate: $312
Edit Property
Bear Creek Estates Country Club
Very beautiful and private setting!!!
Lab3.jpg
Show all
Type here to search
ENG
10:52 PM
12/10/2018

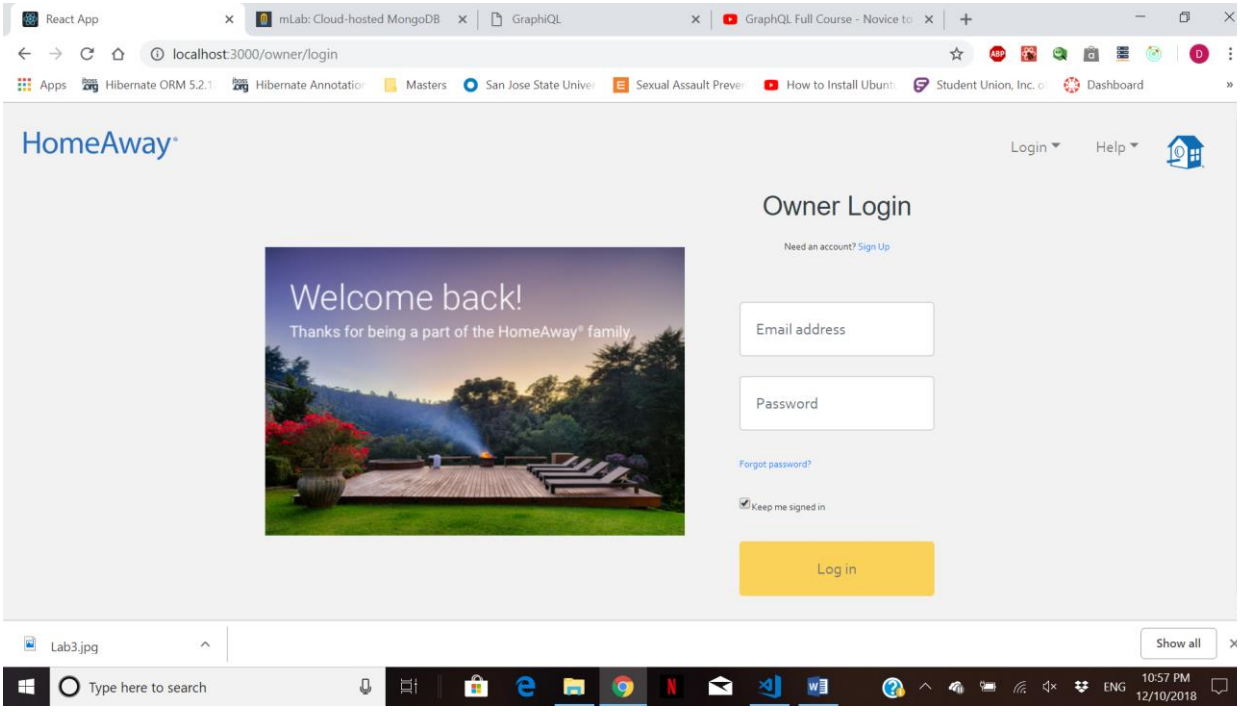


Explanation:

- These screenshots shows the properties listed by the owner.
- On the property list, if we click on the property name, it redirects to a propertyDetails page as shown in the screenshot.

Logging off from the owner account

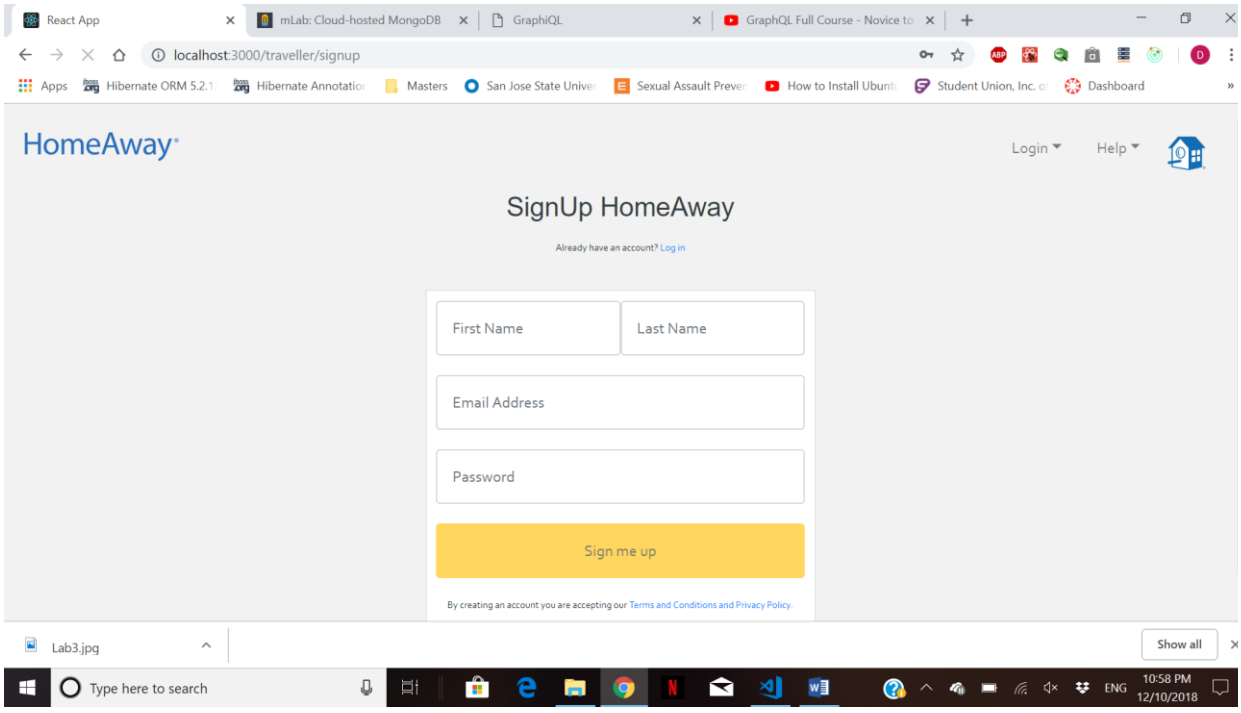




Explanation:

- Once the owner logs out, the owner will be directed to the login page again and the options are gone too.

Creating a new travel account


React App
mLab: Cloud-hosted MongoDB
GraphiQL
GraphQL Full Course - Novice to
localhost:3000/traveller/signup
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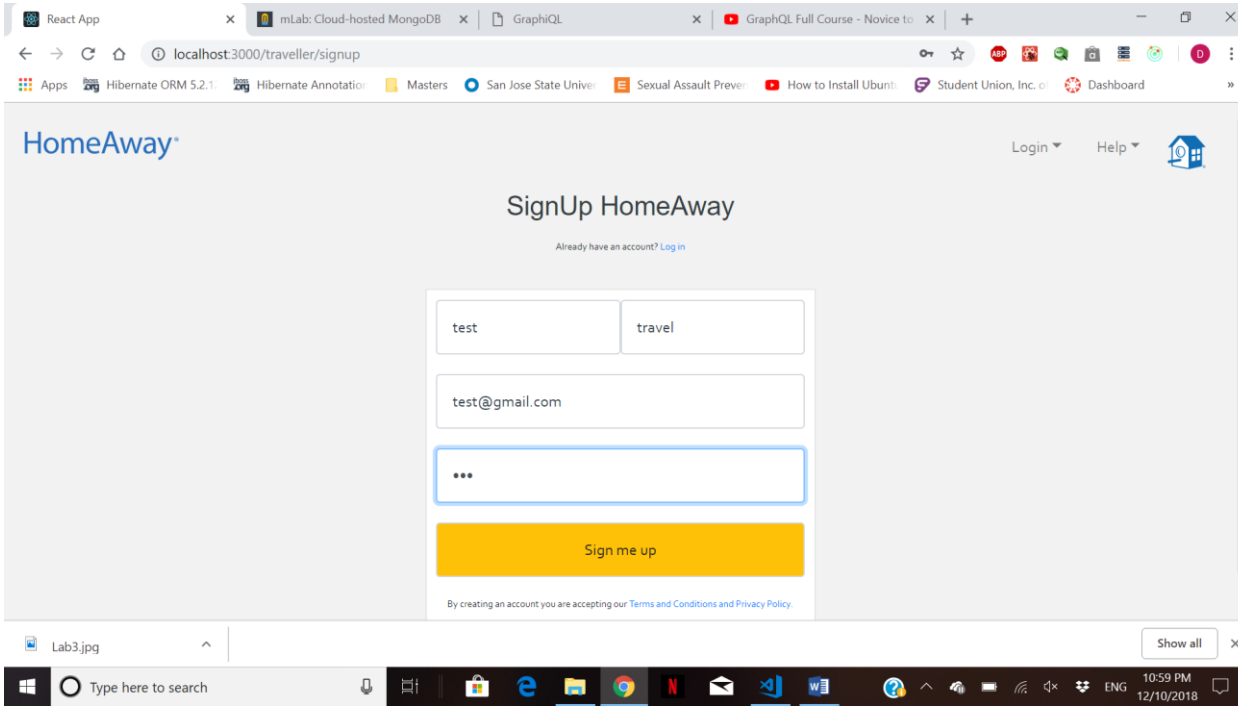
Hibernate Annotatio
Masters
San Jose State Univer
Sexual Assault Prever
How to Install Ubunt
Student Union, Inc. o
Dashboard
HomeAway
Login
Help
SignUp HomeAway
Already have an account? Log in
First Name
Last Name
Email Address
Password
Sign me up
By creating an account you are accepting our Terms and Conditions and Privacy Policy.
Lab3.jpg
Show all
Type here to search
ENG
10:58 PM
12/10/2018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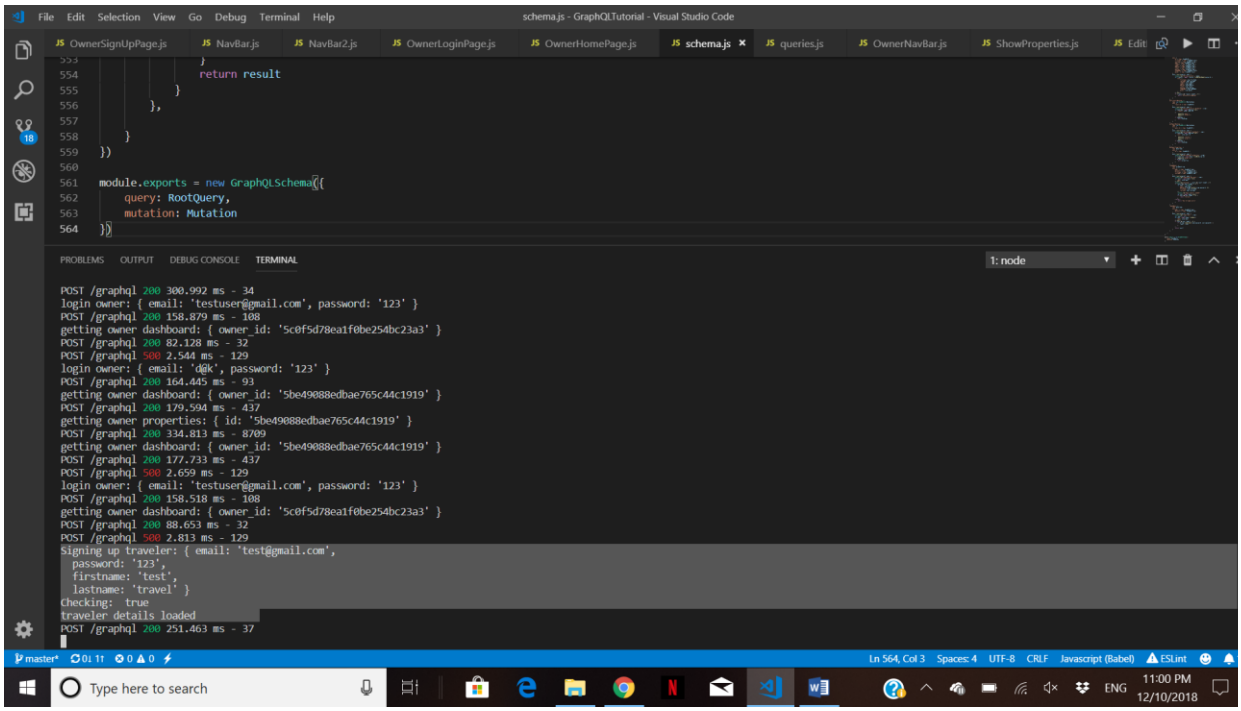
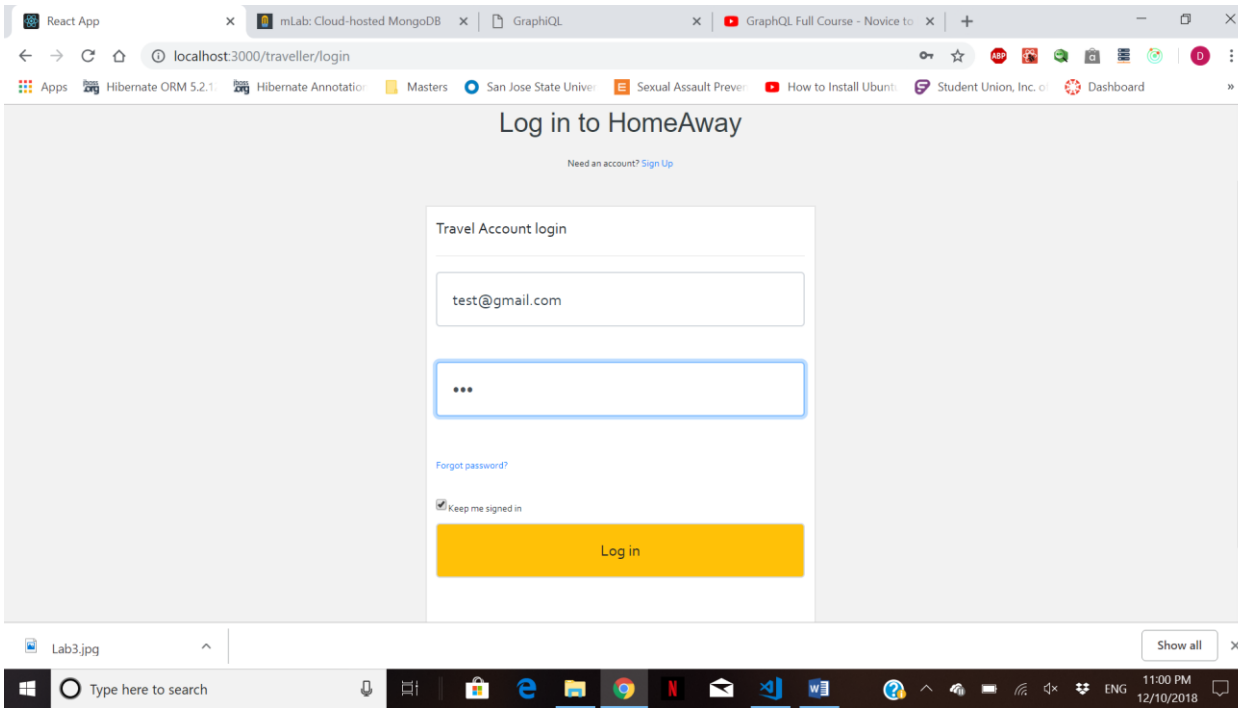
San Jose State Univer
Sexual Assault Prever
How to Install Ubunt
Student Union, Inc. o
Dashboard
HomeAway
Login
Help
SignUp HomeAway
Already have an account? Log in
test
travel
test@gmail.com
•••
Sign me up
By creating an account you are accepting our Terms and Conditions and Privacy Policy.
Lab3.jpg
Show all
Type here to search
ENG
10:59 PM
12/10/2018

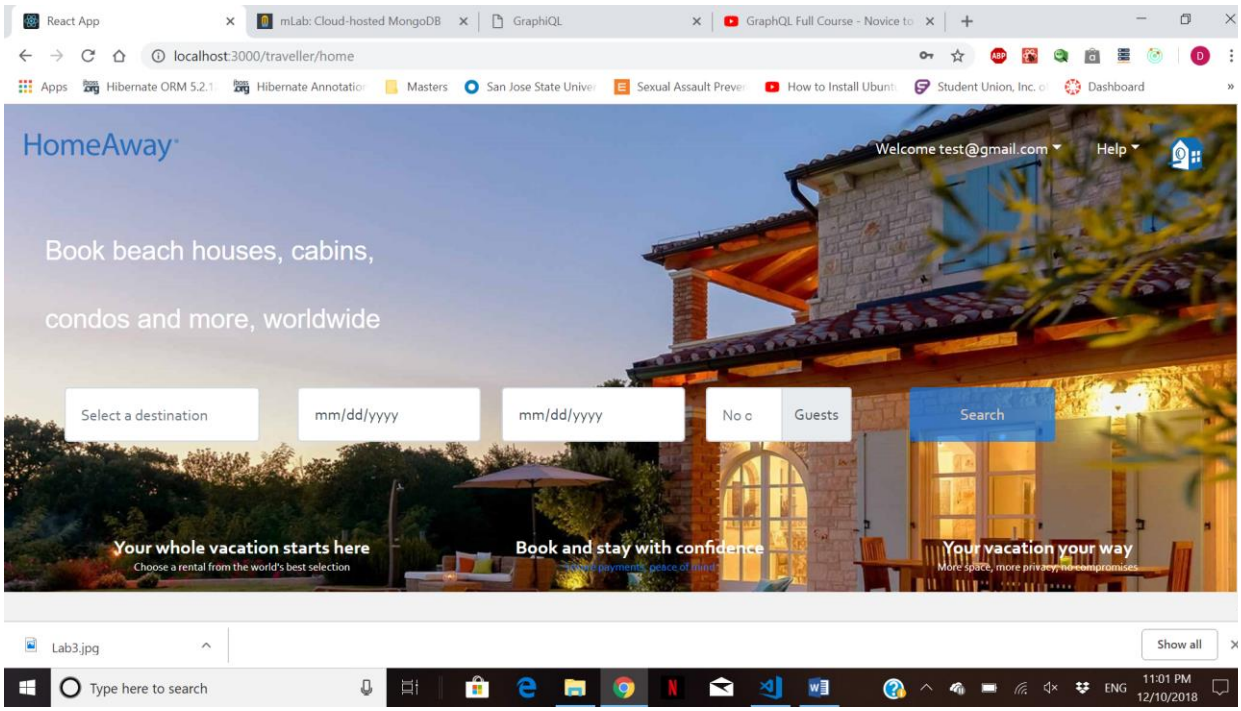


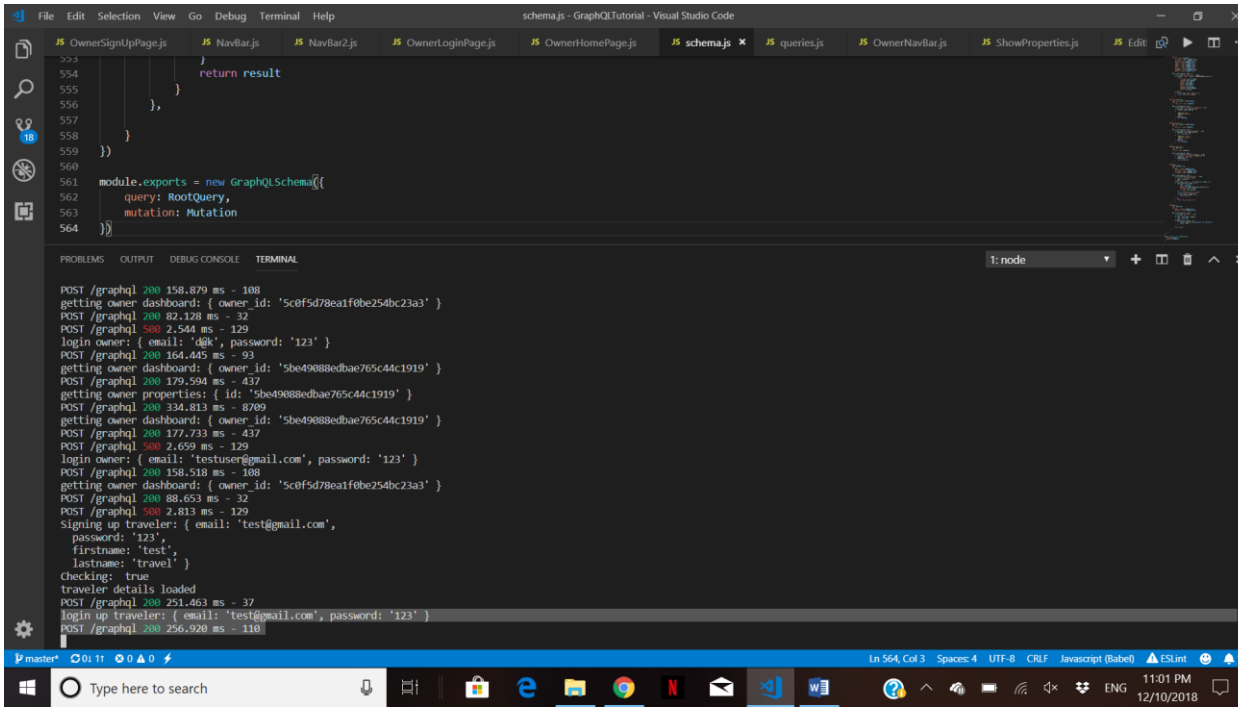
Explanation:

- We created a new travel account with Name: Test Travel and Email id:test@gmail.com and password=123 which has been encrypted using bcrypt.

Logging in with new travel account



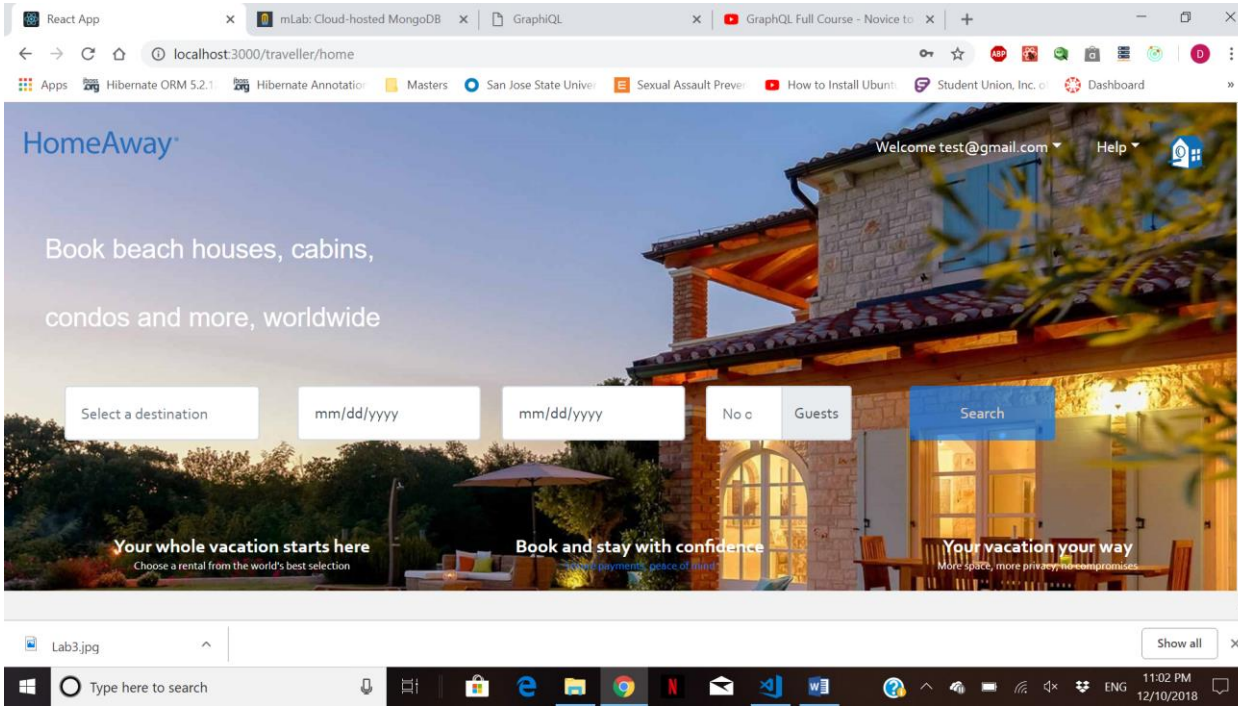


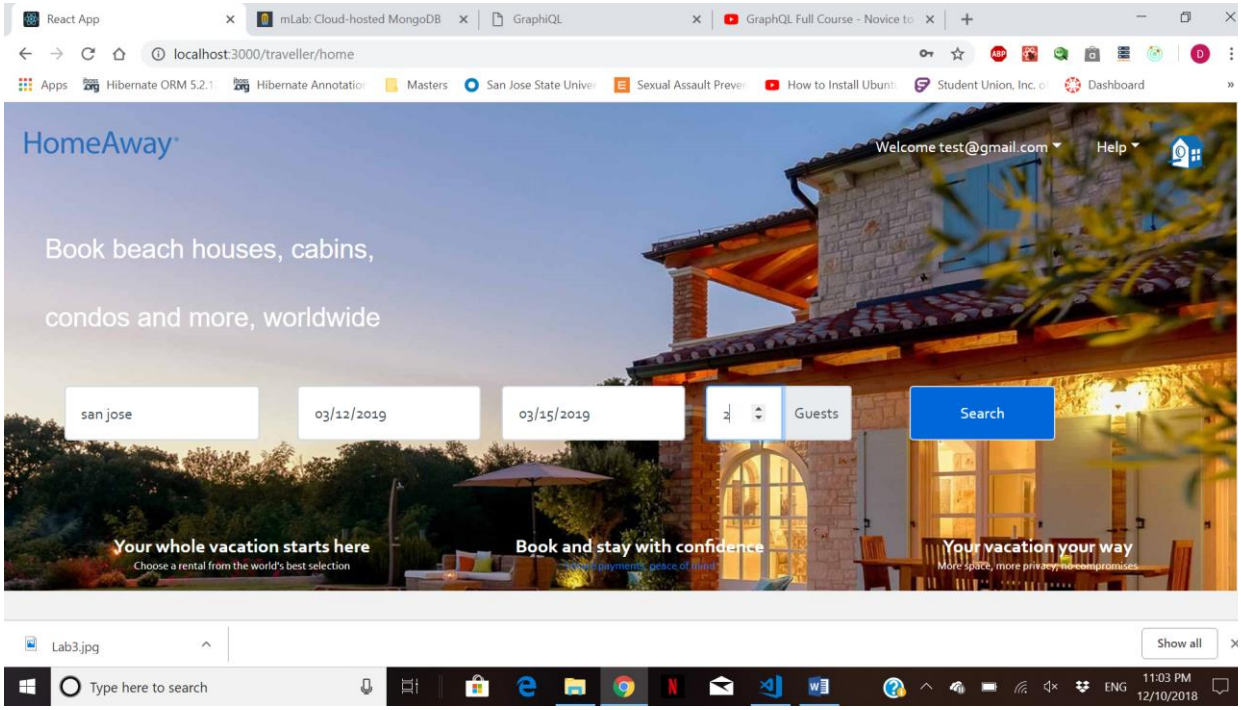


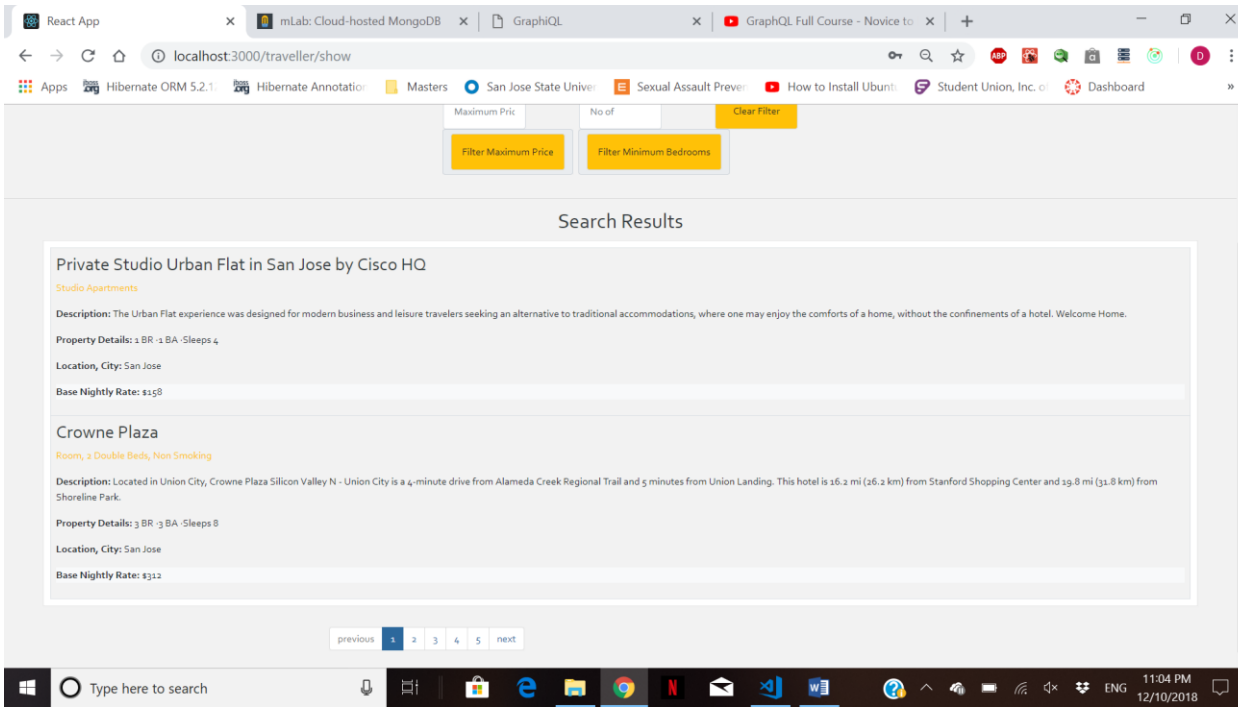
Explanation:

- We have logged in using the login credentials that we just used for signing up.
- The backend logs shows the successful request served by the graphql server.

Searching a property based on “city, arrival, departure and # of guests”






React App
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GraphQL Full Course - Novice to
localhost:3000/traveller/show
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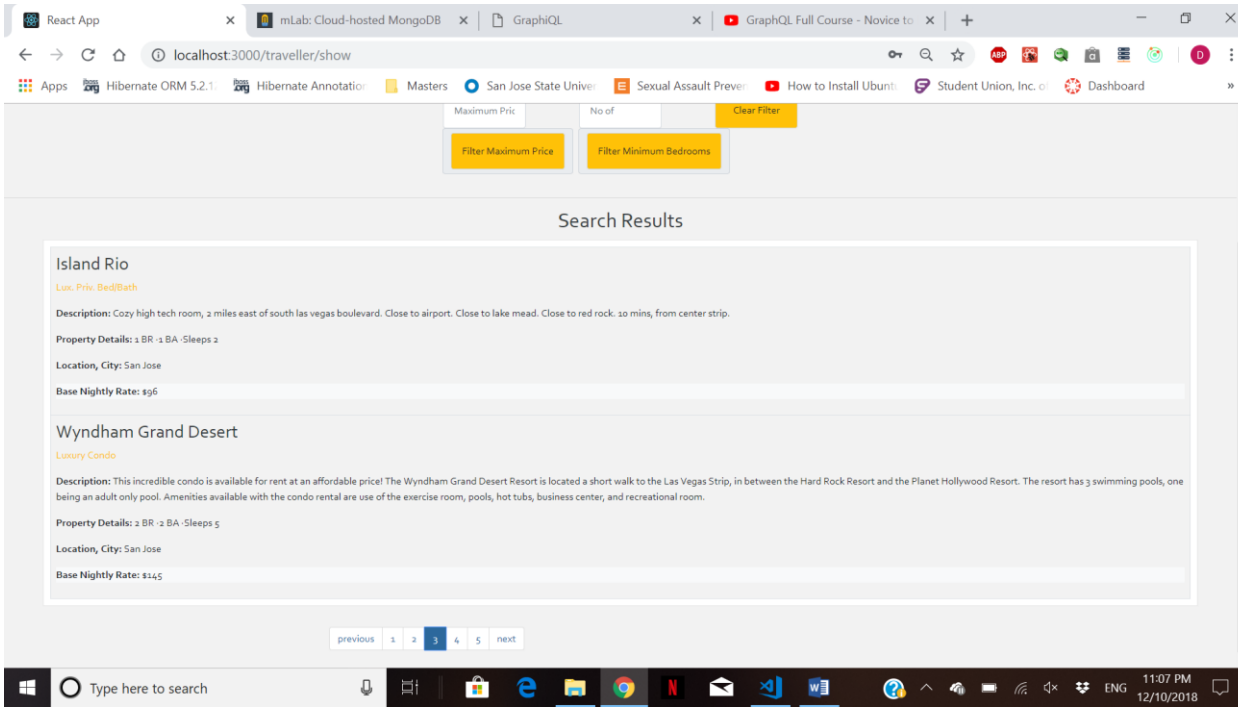
Sexual Assault Prever
How to Install Ubunt
Student Union, Inc. o
Dashboard
Maximum Pric
No of
Clear Filter
Filter Maximum Price
Filter Minimum Bedrooms
Search Results
Private Studio Urban Flat in San Jose by Cisco HQ
Studio Apartments
Description: The Urban Flat experience was designed for modern business and leisure travelers seeking an alternative to traditional accommodations, where one may enjoy the comforts of a home, without the confinements of a hotel. Welcome Home.
Property Details: 1 BR ·1 BA ·Sleeps 4
Location, City: San Jose
Base Nightly Rate: $158
Crowne Plaza
Room, 2 Double Beds, Non Smoking
Description: Located in Union City, Crowne Plaza Silicon Valley N - Union City is a 4-minute drive from Alameda Creek Regional Trail and 5 minutes from Union Landing. This hotel is 16.2 mi (26.2 km) from Stanford Shopping Center and 19.8 mi (31.8 km) from Shoreline Park.
Property Details: 3 BR ·3 BA ·Sleeps 8
Location, City: San Jose
Base Nightly Rate: $312
previous
1
2
3
4
5
next
Type here to search
ENG
11:04 PM
12/10/2018


React App
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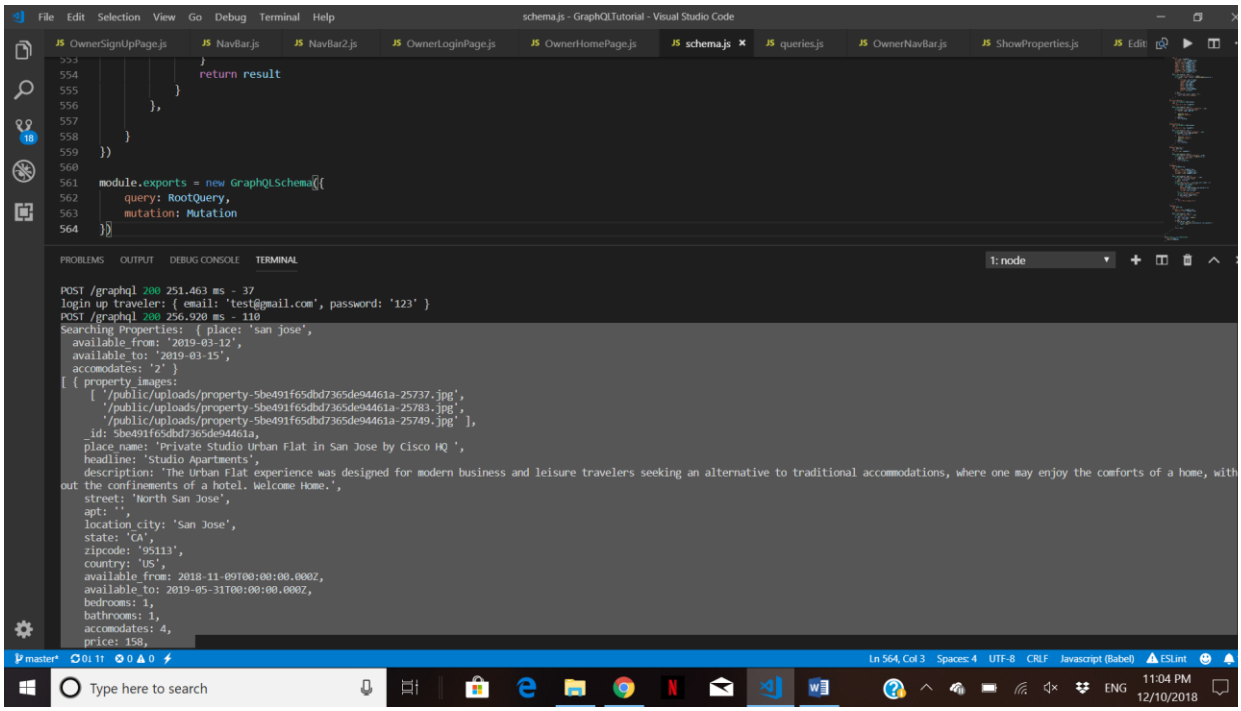
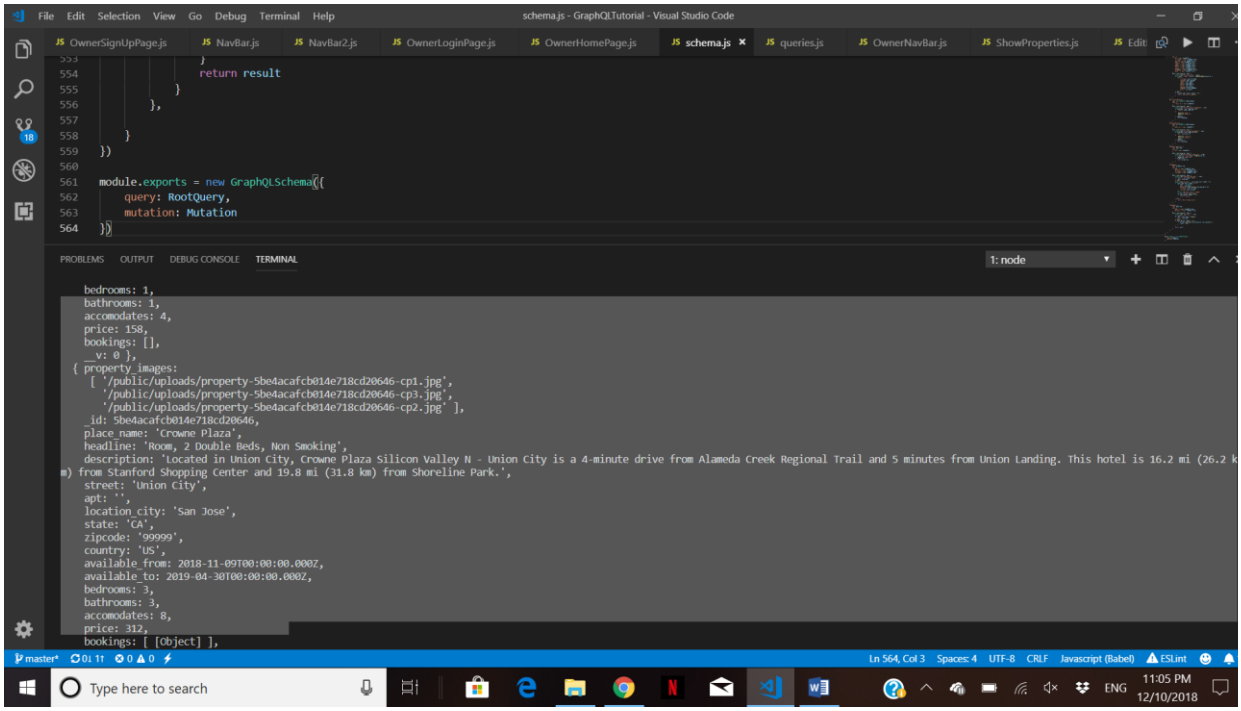
Student Union, Inc. o
Dashboard
Maximum Pric
No of
Clear Filter
Filter Maximum Price
Filter Minimum Bedrooms
Search Results
Island Rio
Lux. Priv. Bed/Bath
Description: Cozy high tech room, 2 miles east of south las vegas boulevard. Close to airport. Close to lake mead. Close to red rock. 10 mins, from center strip.
Property Details: 1 BR ·1 BA ·Sleeps 2
Location, City: San Jose
Base Nightly Rate: $96
Wyndham Grand Desert
Luxury Condo
Description: This incredible condo is available for rent at an affordable price! The Wyndham Grand Desert Resort is located a short walk to the Las Vegas Strip, in between the Hard Rock Resort and the Planet Hollywood Resort. The resort has 3 swimming pools, one being an adult only pool. Amenities available with the condo rental are use of the exercise room, pools, hot tubs, business center, and recreational room.
Property Details: 2 BR ·2 BA ·Sleeps 5
Location, City: San Jose
Base Nightly Rate: $145
previous
1
2
3
4
5
next
Type here to search
ENG
11:07 PM
12/10/2018



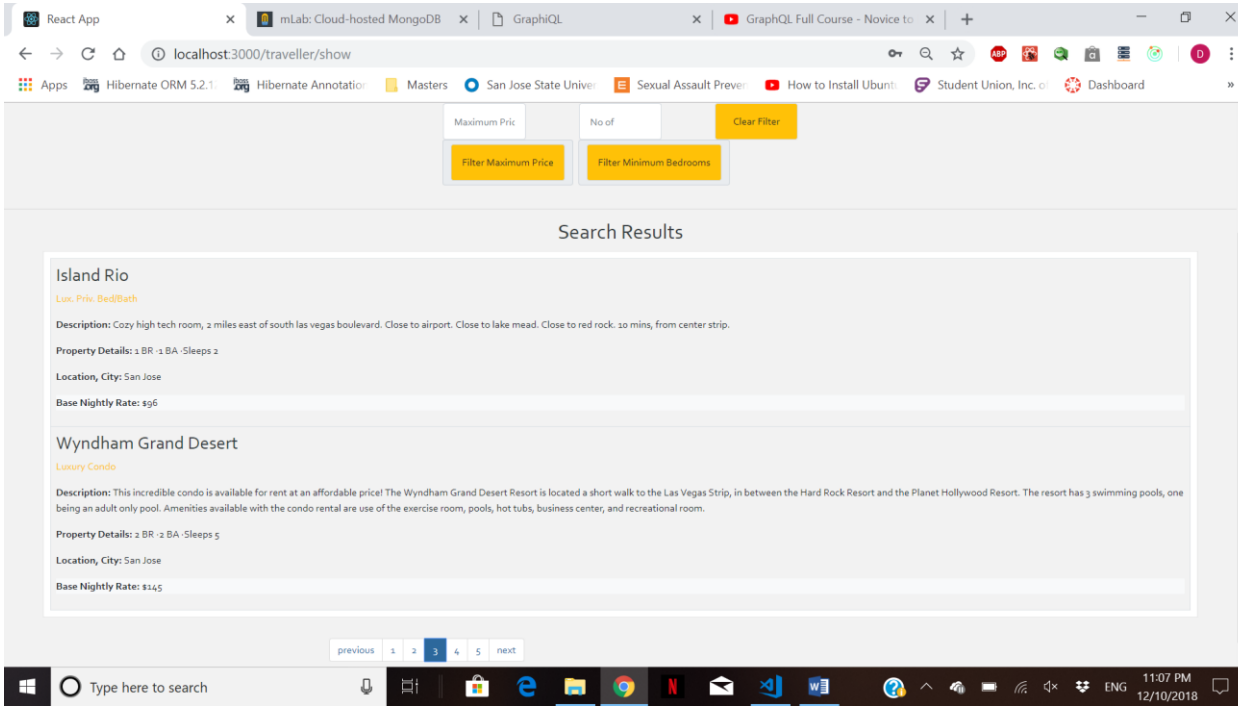


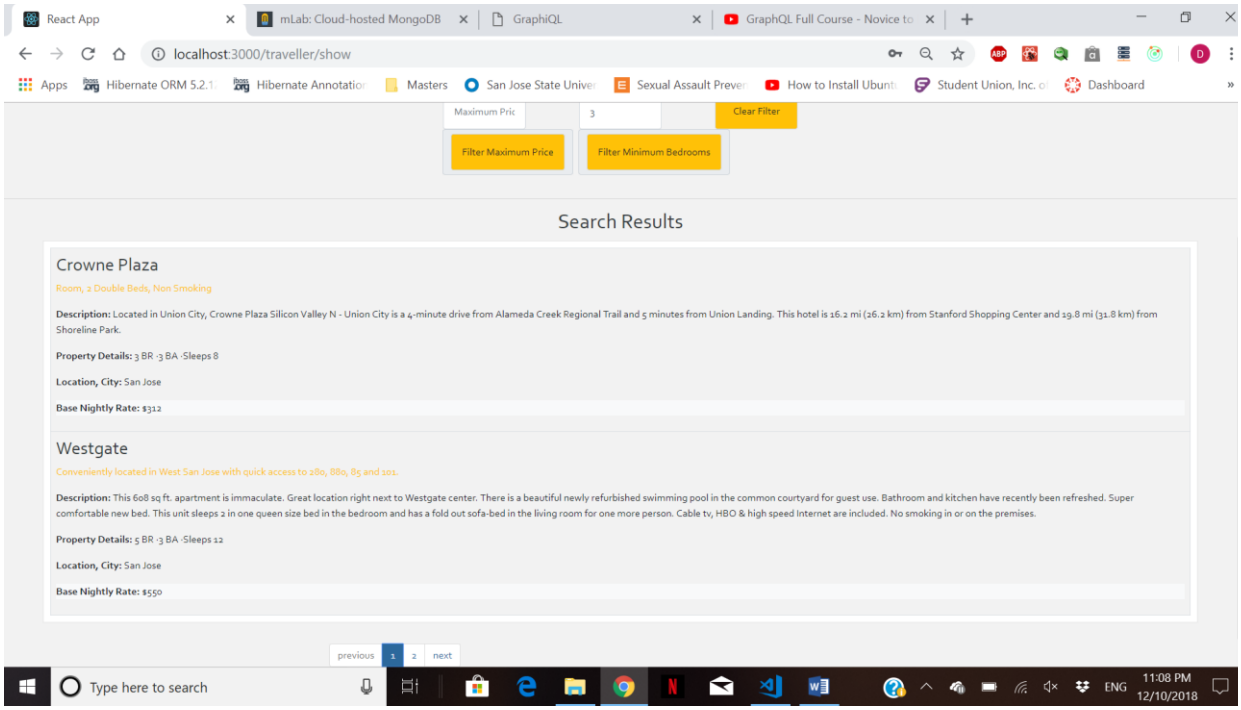
Explanation:

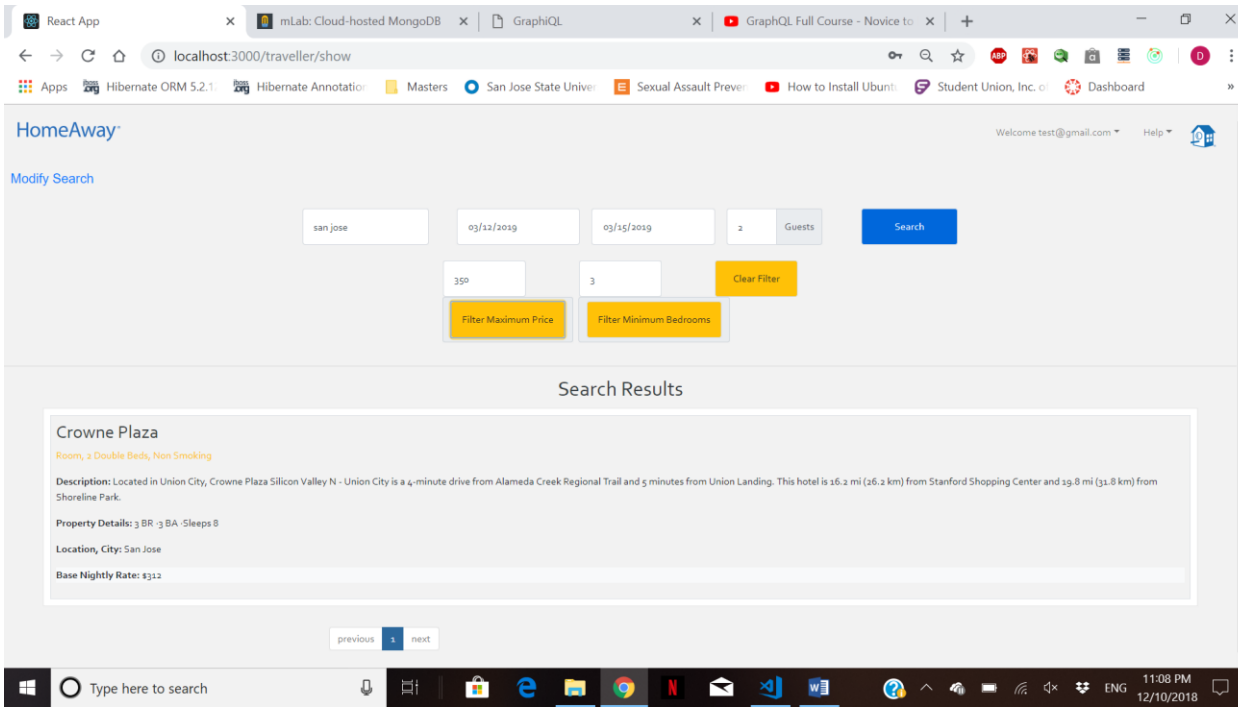
- As you can see in the first screenshot, because we haven't entered all data into the form, the search button is disabled and will not let us access the search button.
- After we provide all the details(as done in the 2nd screenshot), the search button will get enabled and we will get our results.

- The console output shows the query which is being used to search the properties, as, we have to take care of all the details provided and plus, we have to make sure that the dates provided are not booked already.
- After we click on search, we will be directed to a page which will show the search results. But, notice how the inline form has the search parameters intact even after we have directed to the next page. This was persisted using props.
- Also, notice the pagination that is being provided to loop through the properties.(Depicted in the screenshots)

Displaying the result of the above search and filtering through it





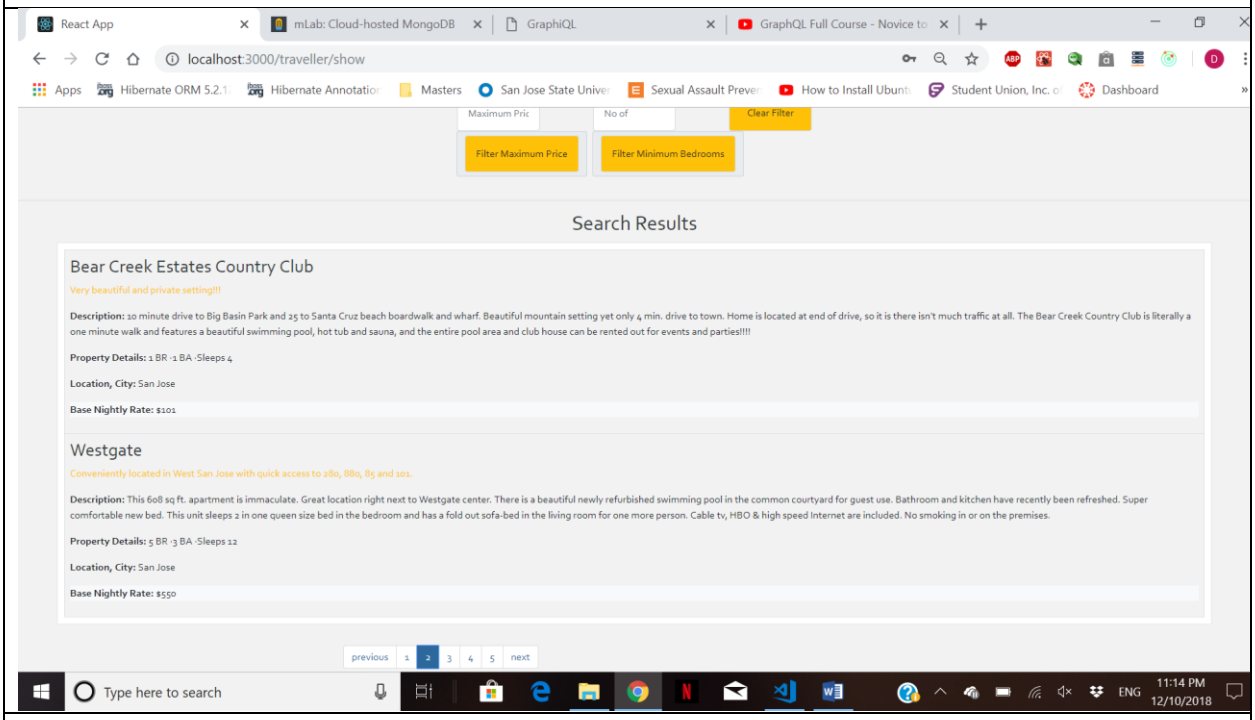


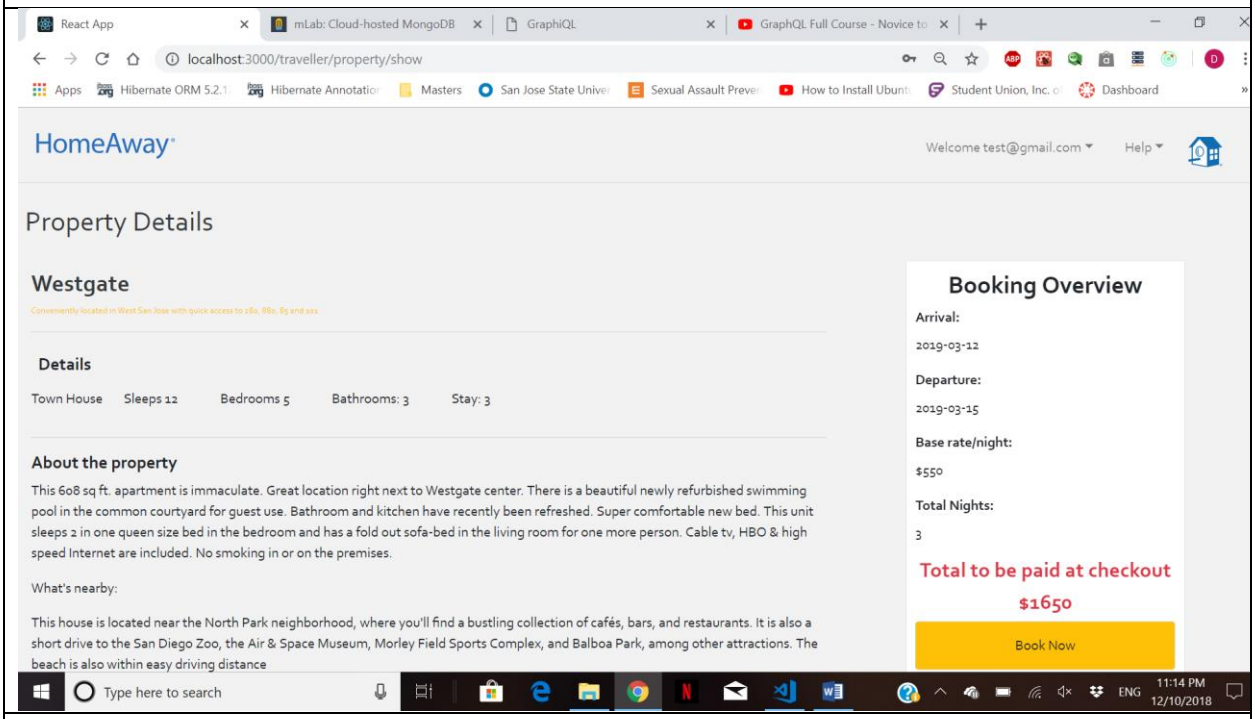
Explanation:

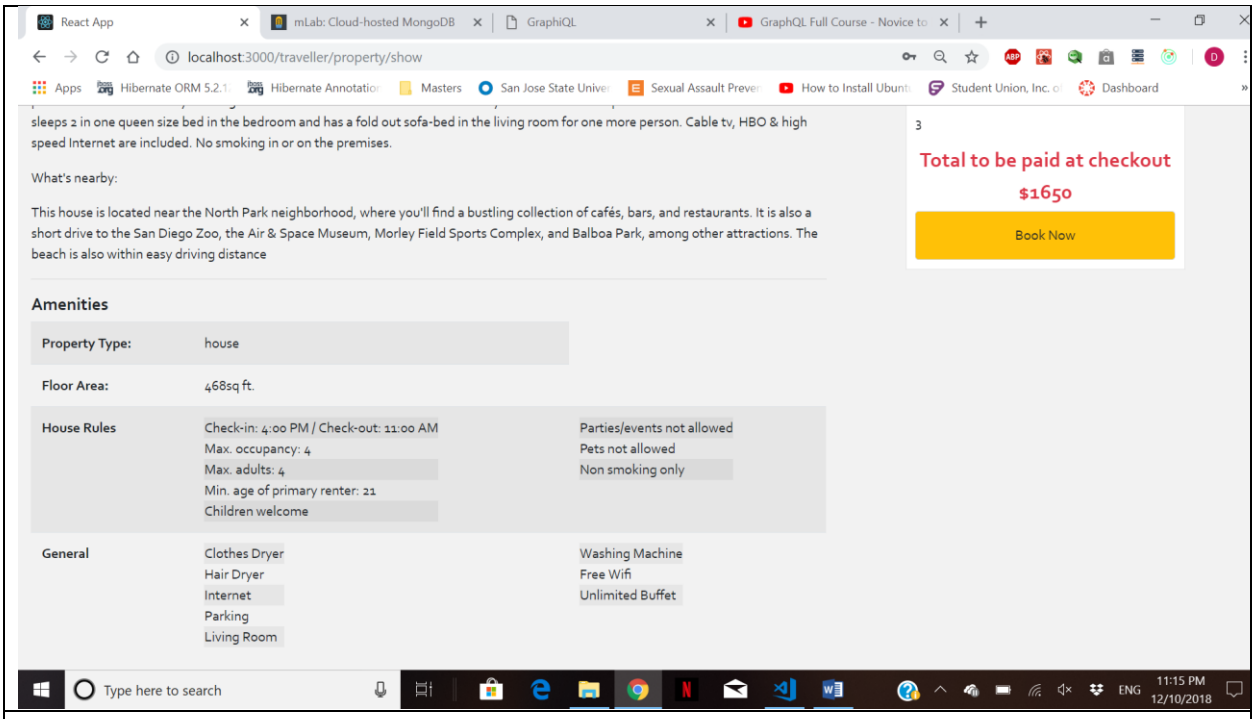
- Here, we are filtering the results to get all the properties which has more than 3 bedrooms.
- As shown in the screenshot, the properties returned are now less than it were before.
- After that, another filter has been added of Maximum Price of: 350. This returns a single property named Crowne Plaza.
- The filtering is done by '_' operator imported from lodash library.

Selecting a property from search result and booking it with the travel account

Let's book WestGate






React App
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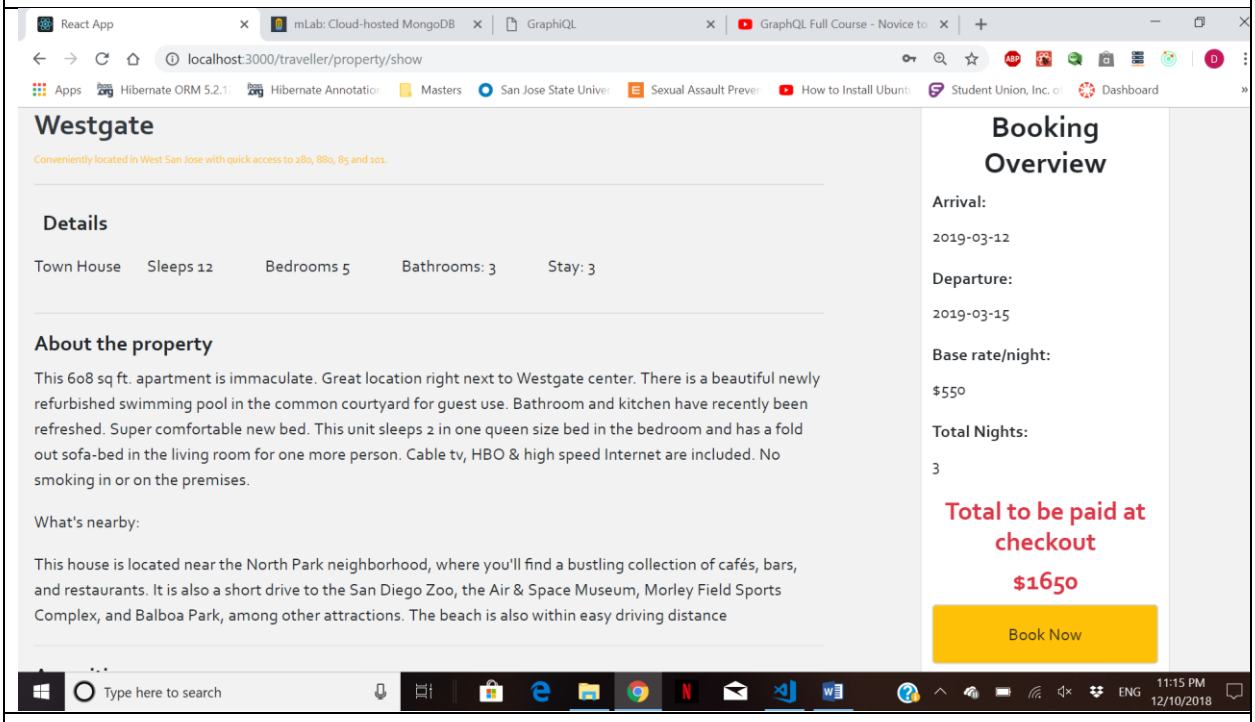
Masters
San Jose State Univer
Sexual Assault Prever
How to Install Ubunt
Student Union, Inc. o
Dashboard
sleeps 2 in one queen size bed in the bedroom and has a fold out sofa-bed in the living room for one more person. Cable tv, HBO & high speed Internet are included. No smoking in or on the premises.
What's nearby:
This house is located near the North Park neighborhood, where you'll find a bustling collection of cafés, bars, and restaurants. It is also a short drive to the San Diego Zoo, the Air & Space Museum, Morley Field Sports Complex, and Balboa Park, among other attractions. The beach is also within easy driving distance
3
Total to be paid at checkout
$1650
Book Now
Amenities
Property Type:
house
Floor Area:
468sq ft.
House Rules
Check-in: 4:00 PM / Check-out: 11:00 AM
Max. occupancy: 4
Max. adults: 4
Min. age of primary renter: 21
Children welcome
Parties/events not allowed
Pets not allowed
Non smoking only
General
Clothes Dryer
Hair Dryer
Internet
Parking
Living Room
Washing Machine
Free Wifi
Unlimited Buffet
Type here to search
ENG
11:15 PM
12/10/2018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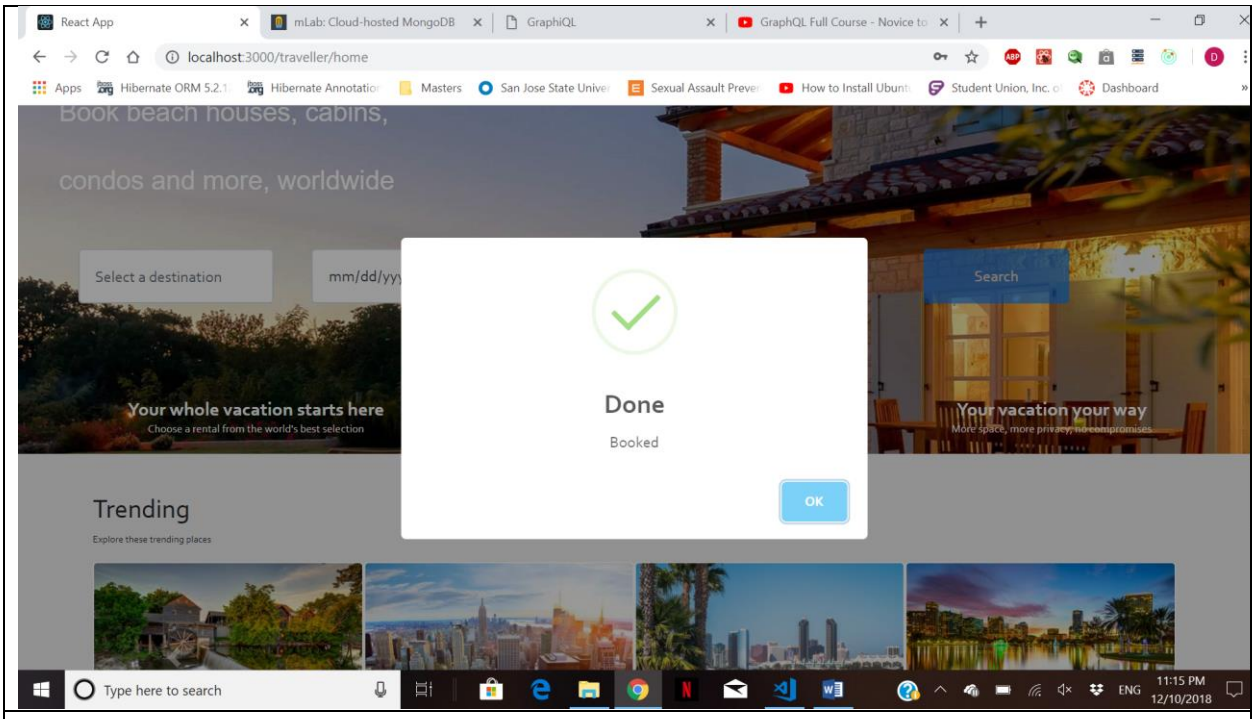
Sexual Assault Prever
How to Install Ubunt
Student Union, Inc. o
Dashboard
Westgate
Conveniently located in West San Jose with quick access to 280, 880, 85 and 101.
Details
Town House
Sleeps 12
Bedrooms 5
Bathrooms: 3
Stay: 3
About the property
This 608 sq ft. apartment is immaculate. Great location right next to Westgate center. There is a beautiful newly refurbished swimming pool in the common courtyard for guest use. Bathroom and kitchen have recently been refreshed. Super comfortable new bed. This unit sleeps 2 in one queen size bed in the bedroom and has a fold out sofa-bed in the living room for one more person. Cable tv, HBO & high speed Internet are included. No smoking in or on the premises.
What's nearby:
This house is located near the North Park neighborhood, where you'll find a bustling collection of cafés, bars, and restaurants. It is also a short drive to the San Diego Zoo, the Air & Space Museum, Morley Field Sports Complex, and Balboa Park, among other attractions. The beach is also within easy driving distance
Booking Overview
Arrival:
2019-03-12
Departure:
2019-03-15
Base rate/night:
$550
Total Nights:
3
Total to be paid at checkout
$1650
Book Now
Type here to search
ENG
11:15 PM
12/10/2018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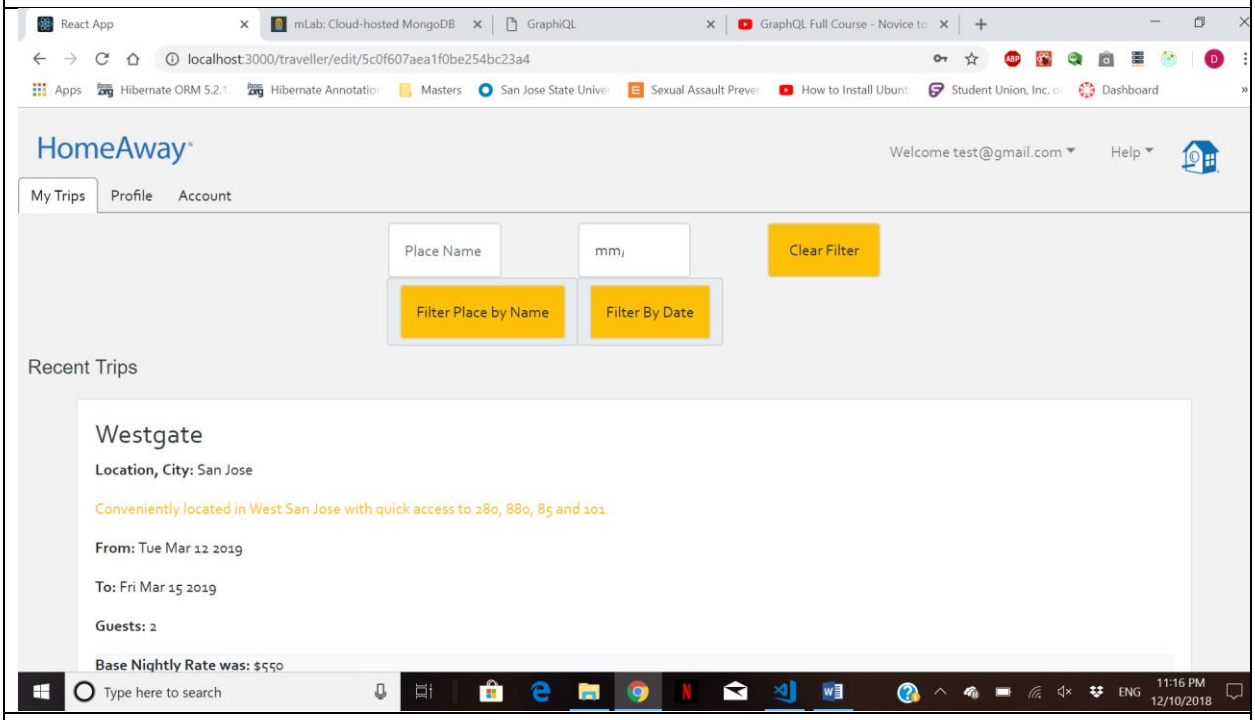
Sexual Assault Prever
How to Install Ubunt
Student Union, Inc.
Dashboard
Book beach houses, cabins,
condos and more, worldwide
Select a destination
mm/dd/yy
Search
Your whole vacation starts here
Choose a rental from the world's best selection
Your vacation your way
More space, more privacy, no compromises
Done
Booked
OK
Trending
Explore these trending places
Type here to search
ENG
11:15 PM
12/10/2018


React App
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localhost:3000/traveller/edit/5c0f607aea1f0be254bc23a4
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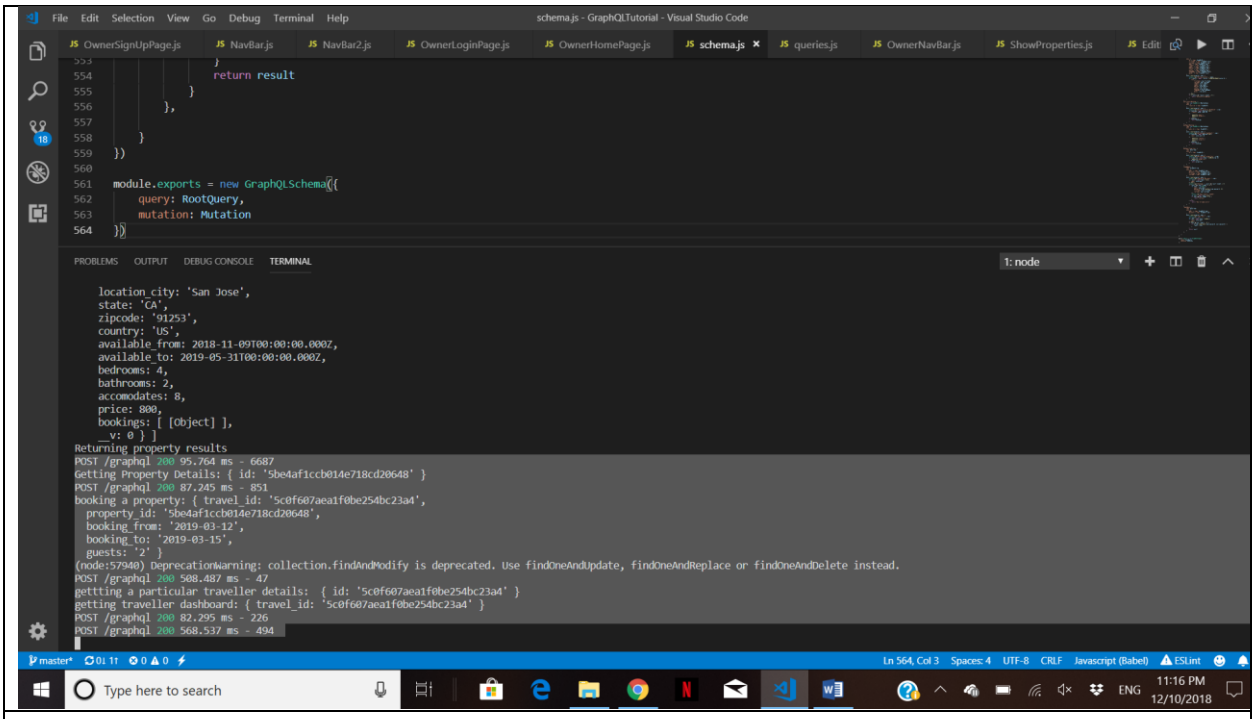
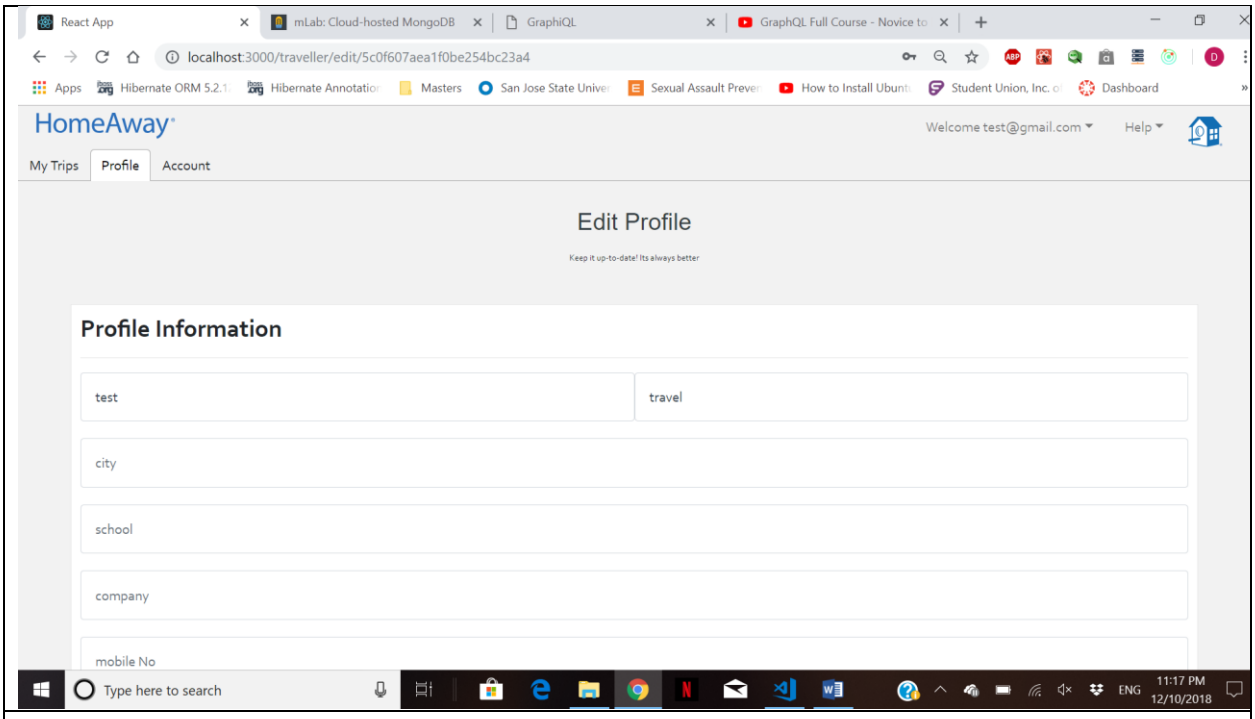
Sexual Assault Prever
How to Install Ubunt
Student Union, Inc.
Dashboard
HomeAway
Welcome test@gmail.com
Help
My Trips
Profile
Account
Place Name
mm/
Clear Filter
Filter Place by Name
Filter By Date
Recent Trips
Westgate
Location, City: San Jose
Conveniently located in West San Jose with quick access to 280, 880, 85 and 101.
From: Tue Mar 12 2019
To: Fri Mar 15 2019
Guests: 2
Base Nightly Rate was: $550
Type here to search
ENG
11:16 PM
12/10/2018



Explanation:

- The above screenshots show the details of the property that we just selected i.e "WestGate."
- On the side, we can re-confirm our booking details and after clicking on book, we book that property for that date and for that user.

Editing the basic details of travel account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localhost:3000/traveller/edit/5c0f607aea1f0be254bc23a4
Apps
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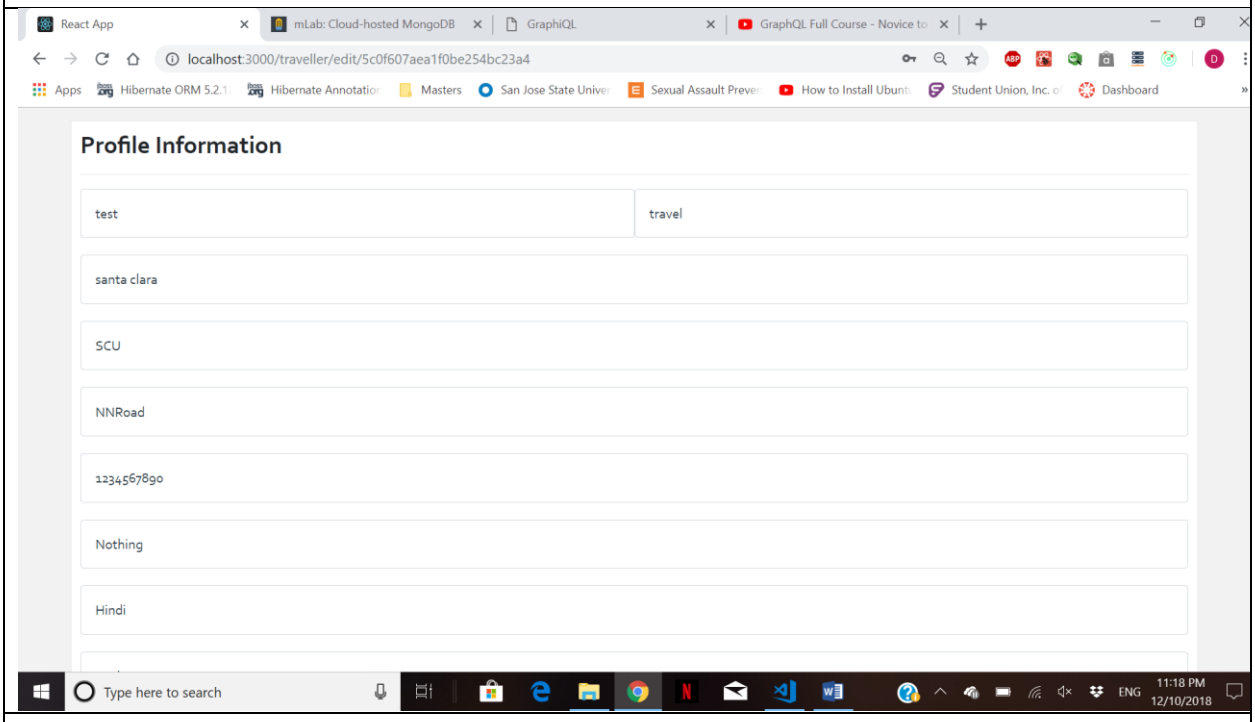
Sexual Assault Prever
How to Install Ubunt
Student Union, Inc. o
Dashboard
HomeAway
Welcome test@gmail.com
Help
My Trips
Profile
Account
Edit Profile
Keep it up-to-date! Its always better
Profile Information
test
travel
city
school
company
mobile No
Type here to search
ENG
11:17 PM
12/10/2018


React App
mLab: Cloud-hosted MongoDB
GraphiQL
GraphQL Full Course - Novice to
localhost:3000/traveller/edit/5c0f607aea1f0be254bc23a4
Apps
Hibernate ORM 5.2.1
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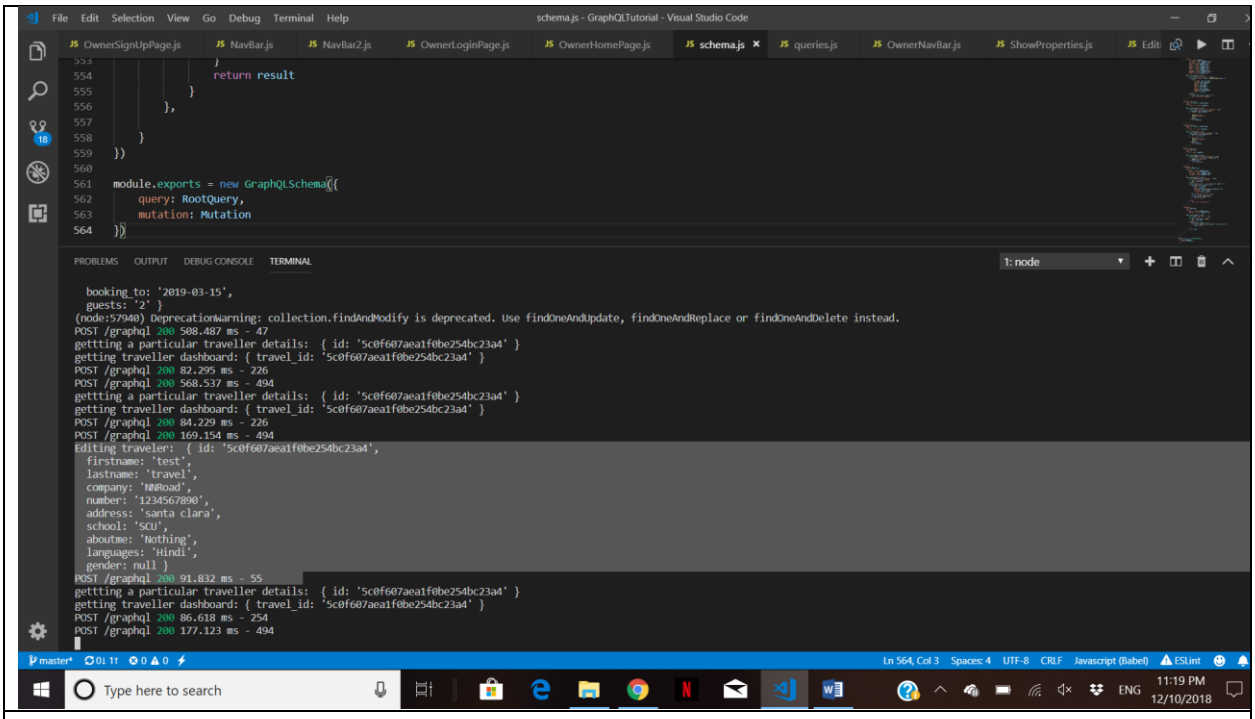
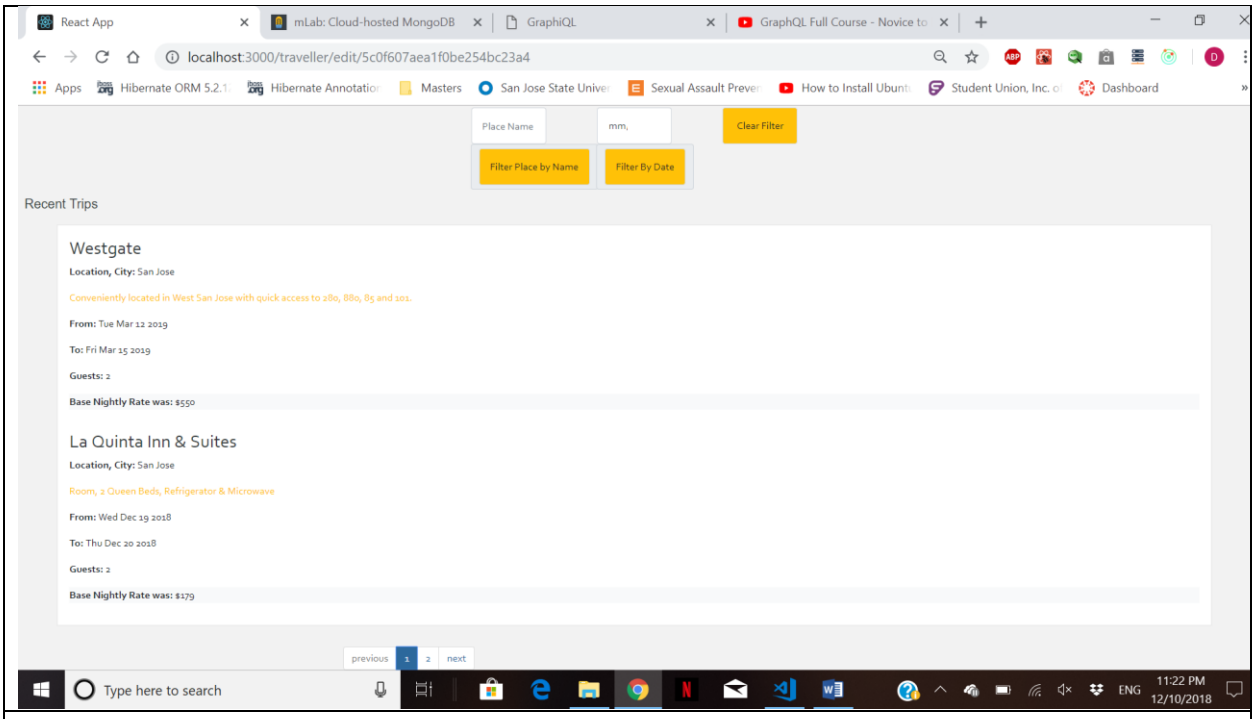
Sexual Assault Prever
How to Install Ubunt
Student Union, Inc. o
Dashboard
Profile Information
test
travel
santa clara
SCU
NNRoad
1234567890
Nothing
Hindi
Type here to search
ENG
11:18 PM
12/10/2018

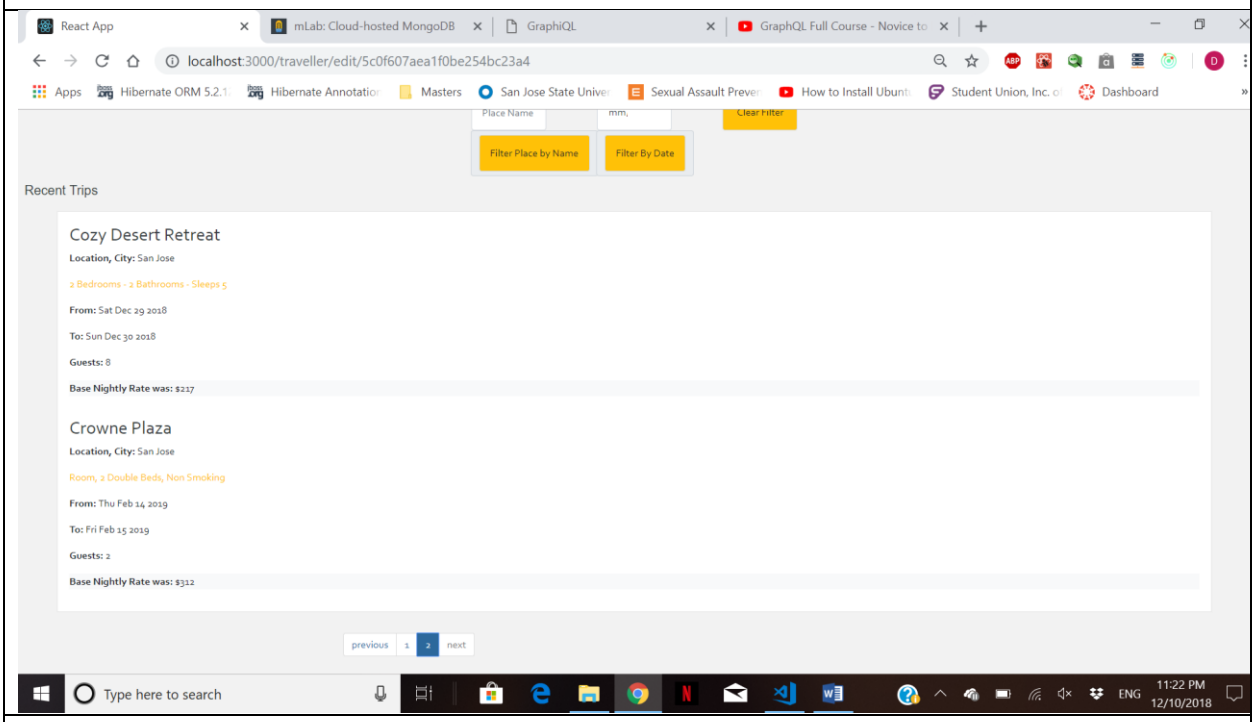


Explanation:

- This section shows how we updated the profile picture of the travel user and edited some details.

Looking at the recent trips that I have booked and filtering through it

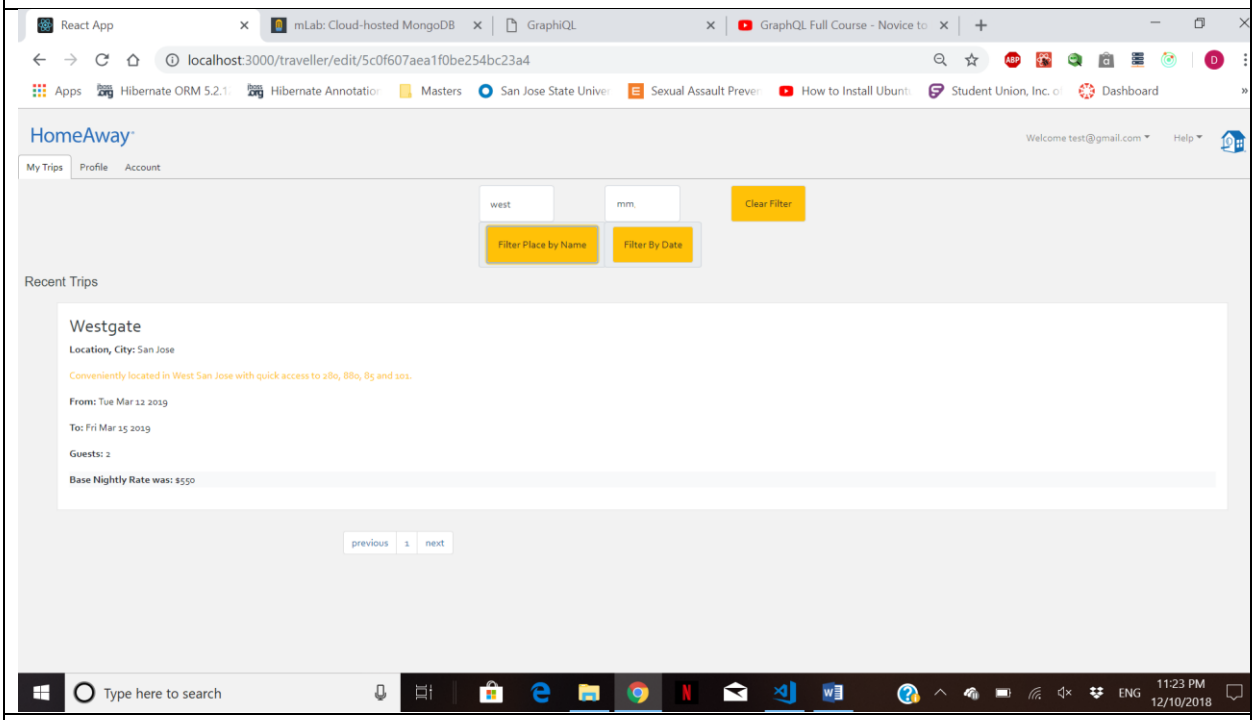




Explanation:

- I booked few other properties to demonstrate pagination and filtering options.
- The screenshot shows that I have booked 4 properties recently, and the bookings are divided into 2 pages as shown in the screenshots.(Pagination size is 2)

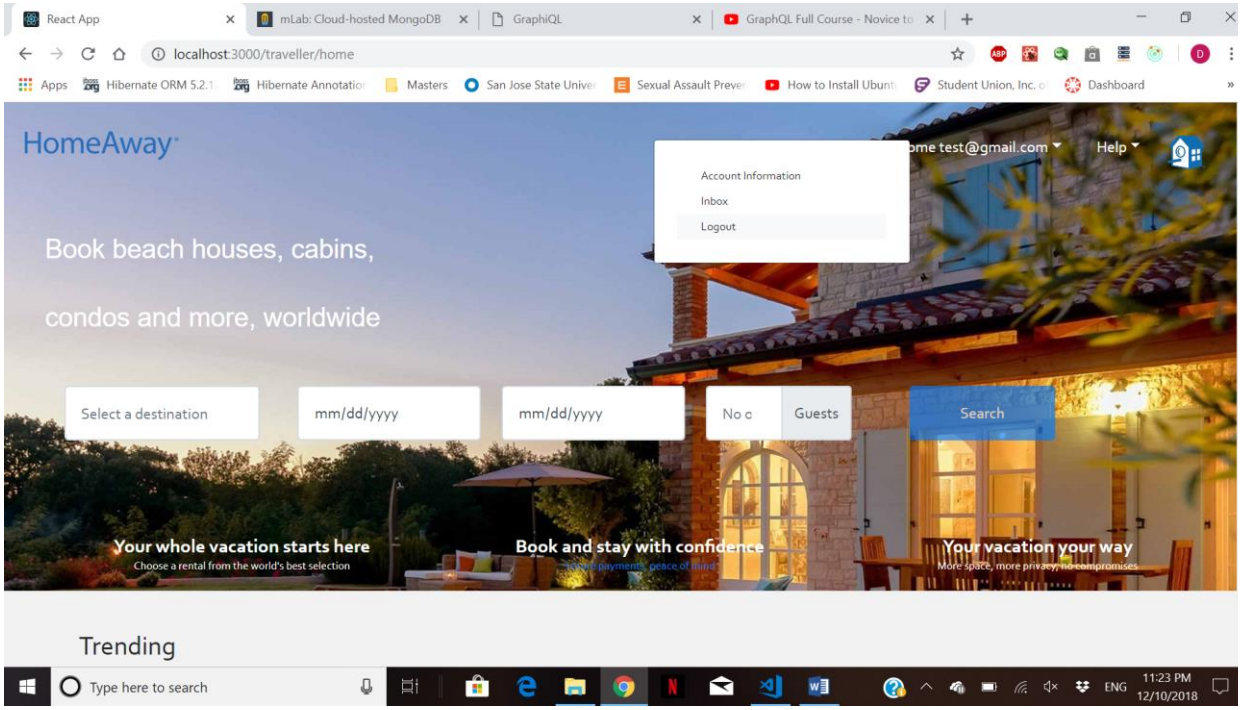
Lets filter through these bookings.

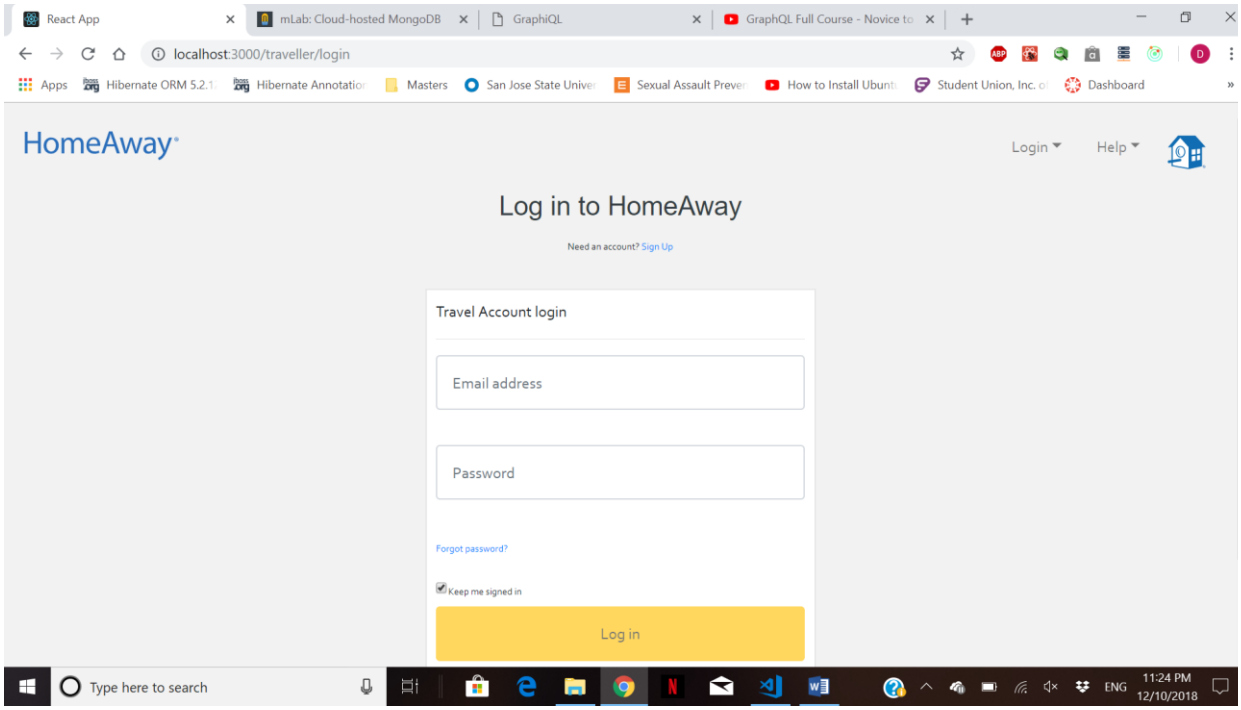


Explanation

- We filtered to see only the bookings I have done for WestGate. There is only 1 booking, hence 1 results.

Logging Off

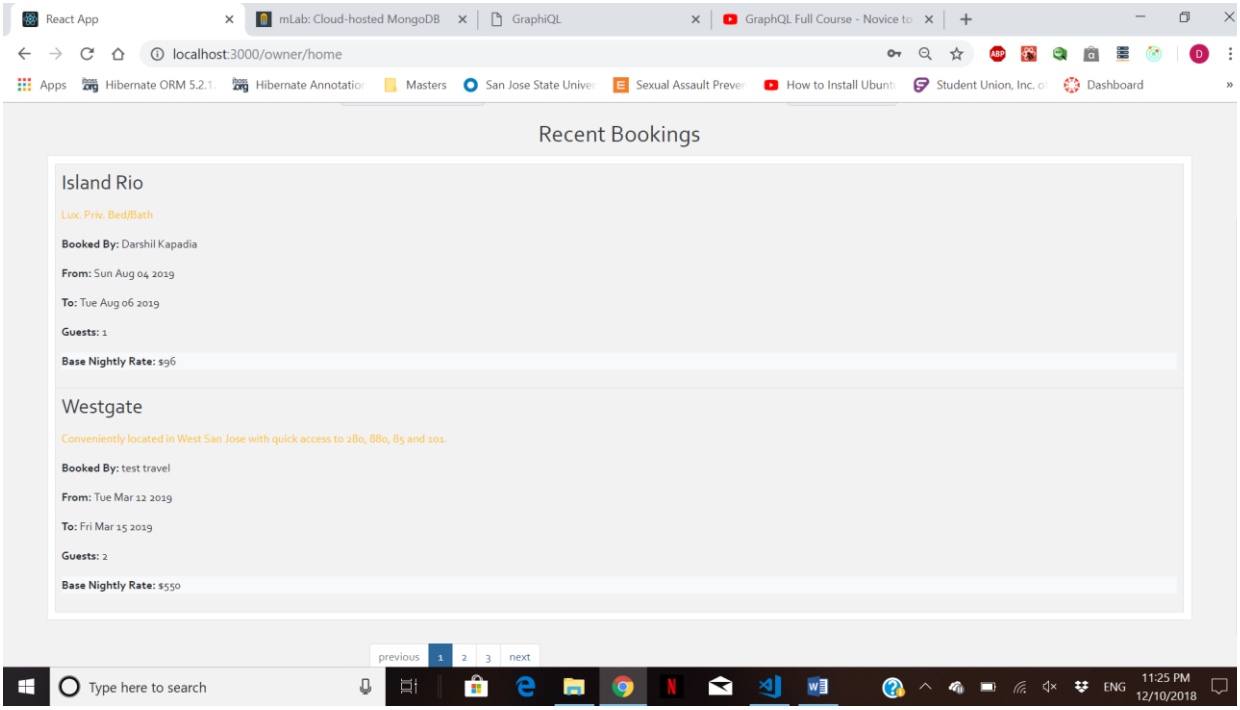




Explanation:

- Demonstrates a simple functioning of logging off.

Looking at Owner's Dashboard

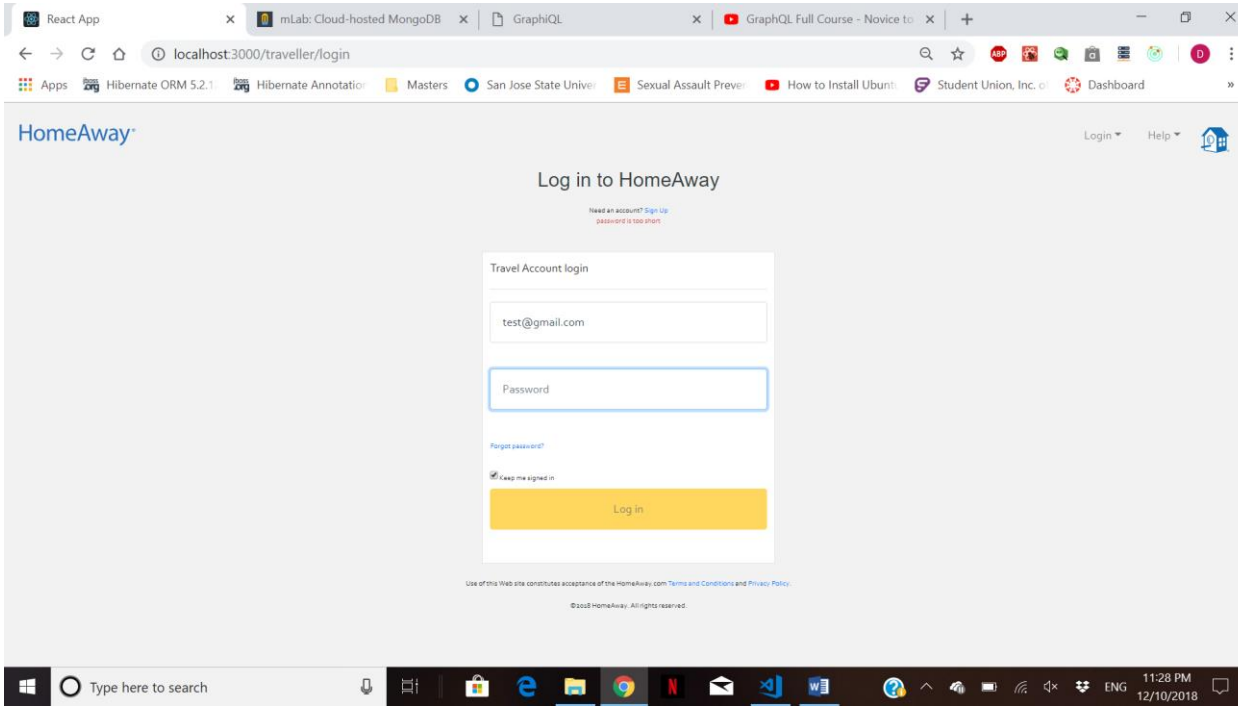


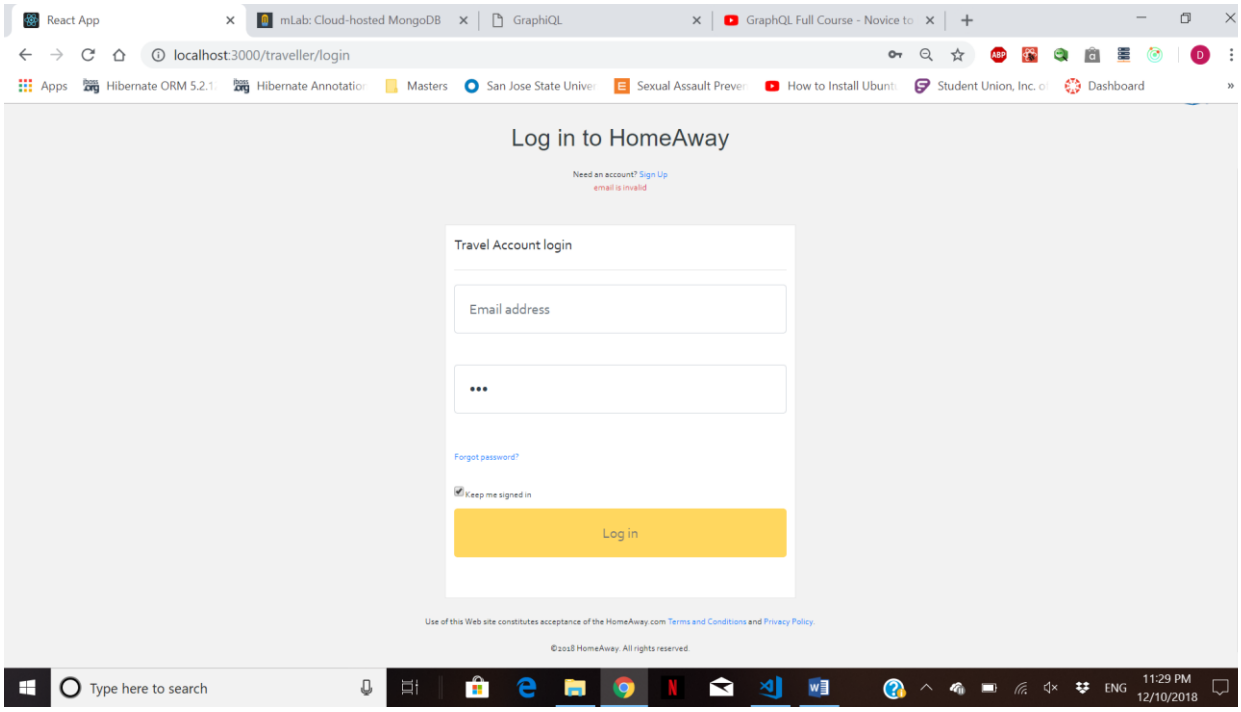
Explanation:

The second result shows the booking that we made during this walkthrough.

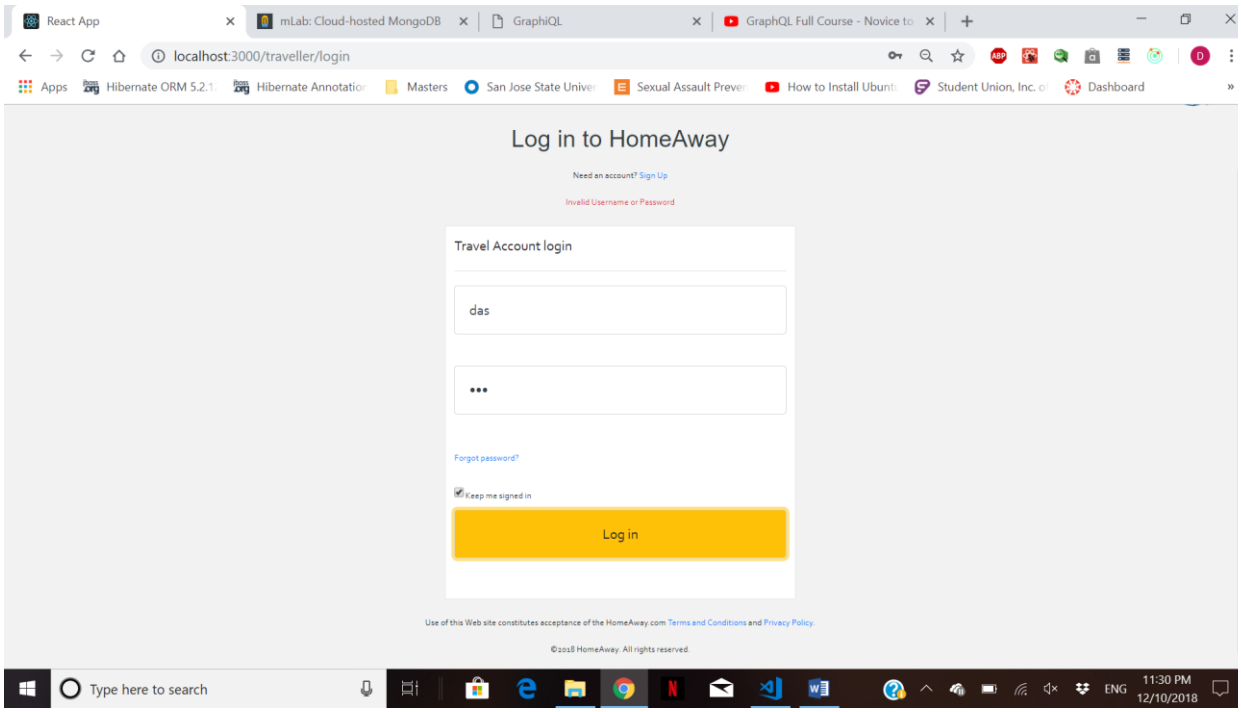
Validation Test-Cases' Results:

Keeping the email/password field empty

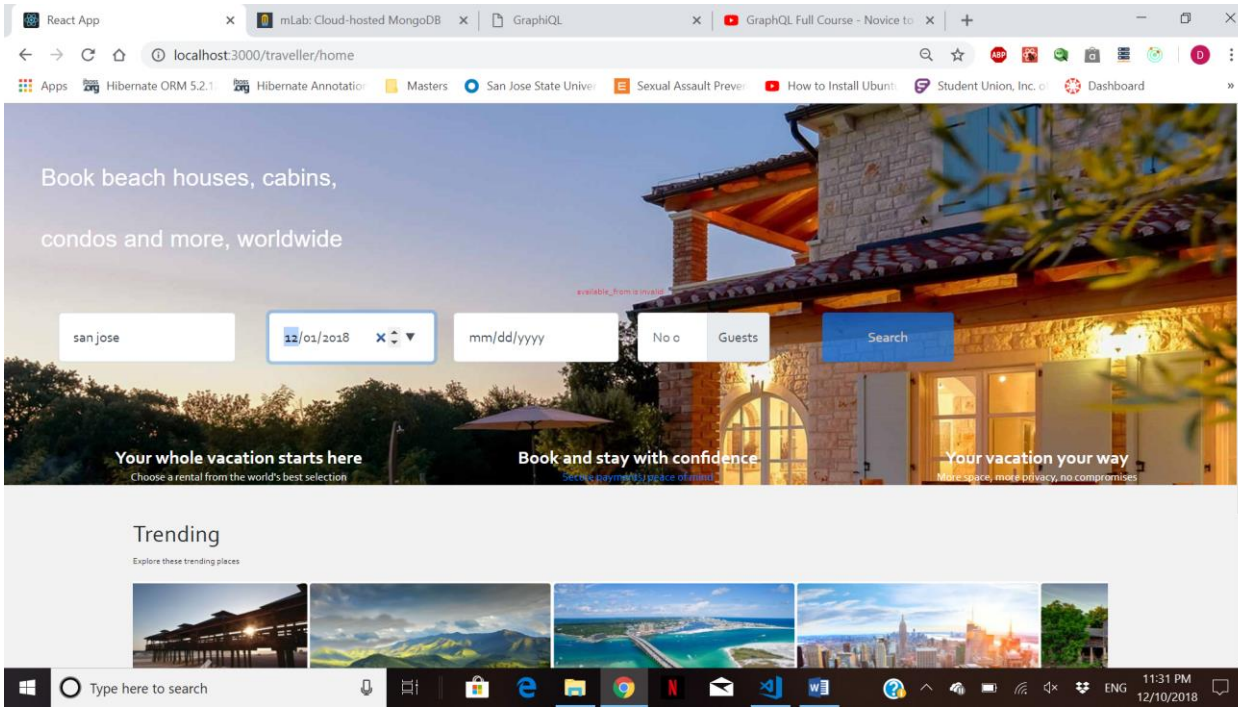


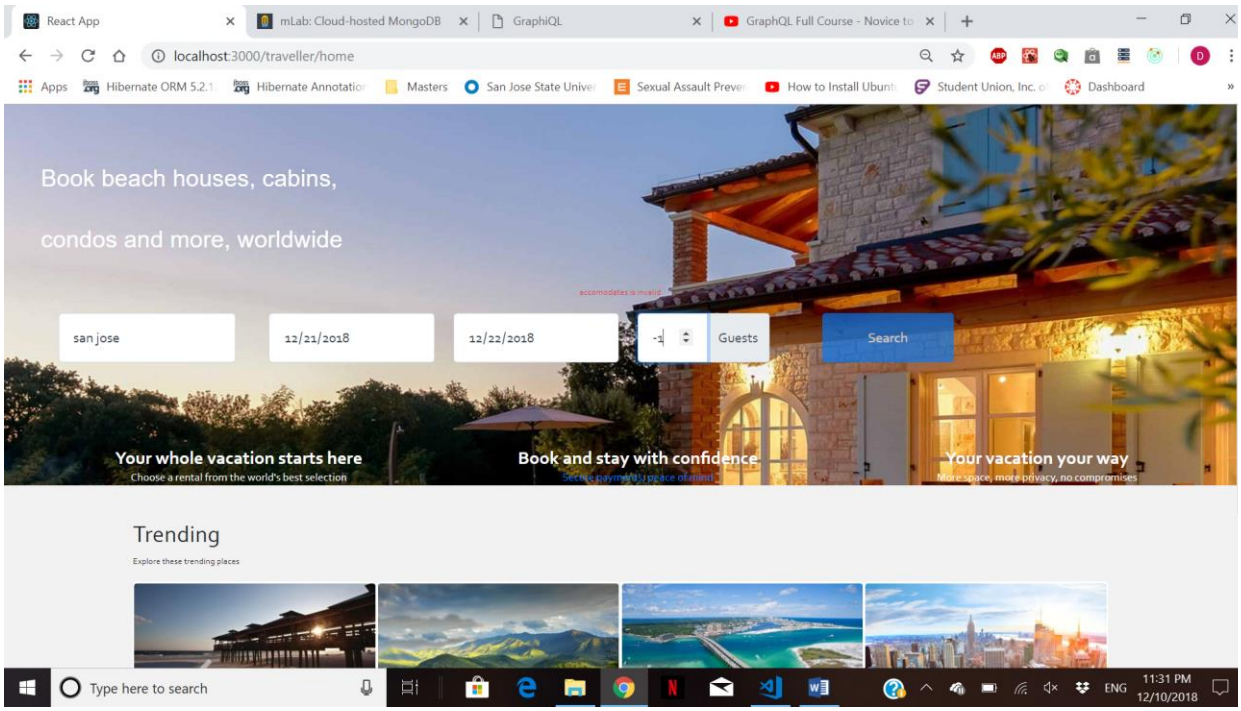


Logging in with incorrect credentials



Searching the property without location city or arrival date or departure date or guests

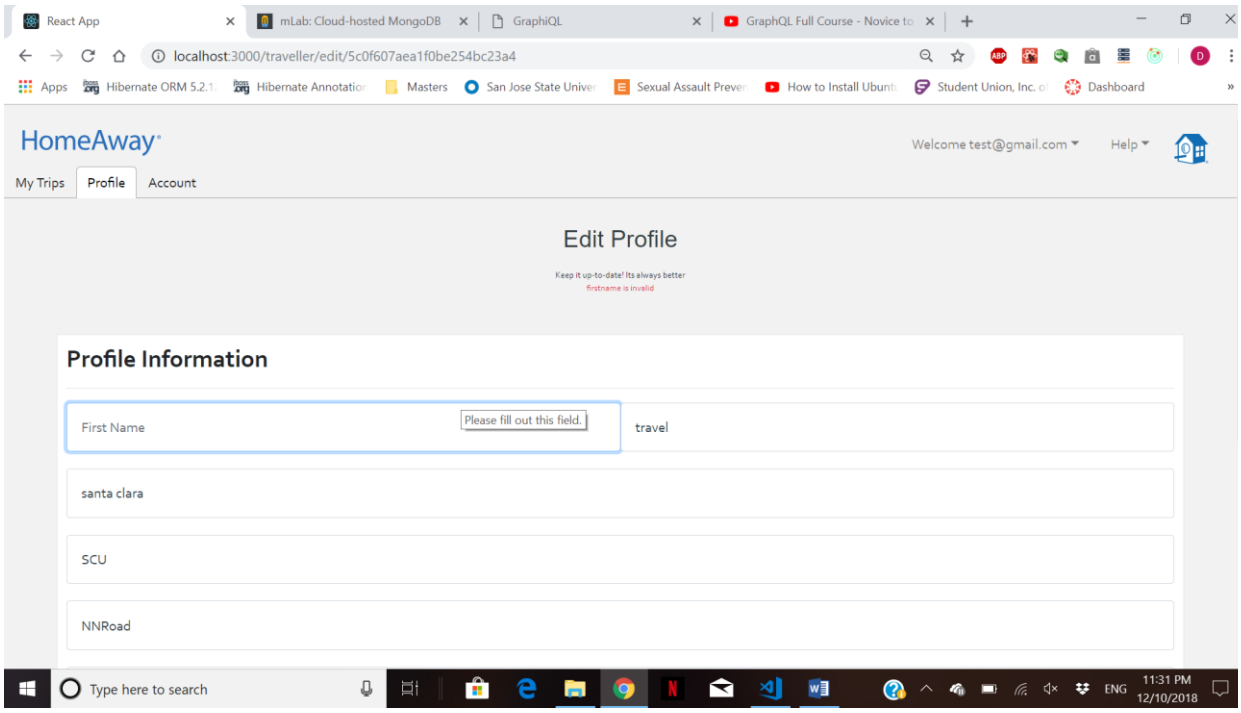


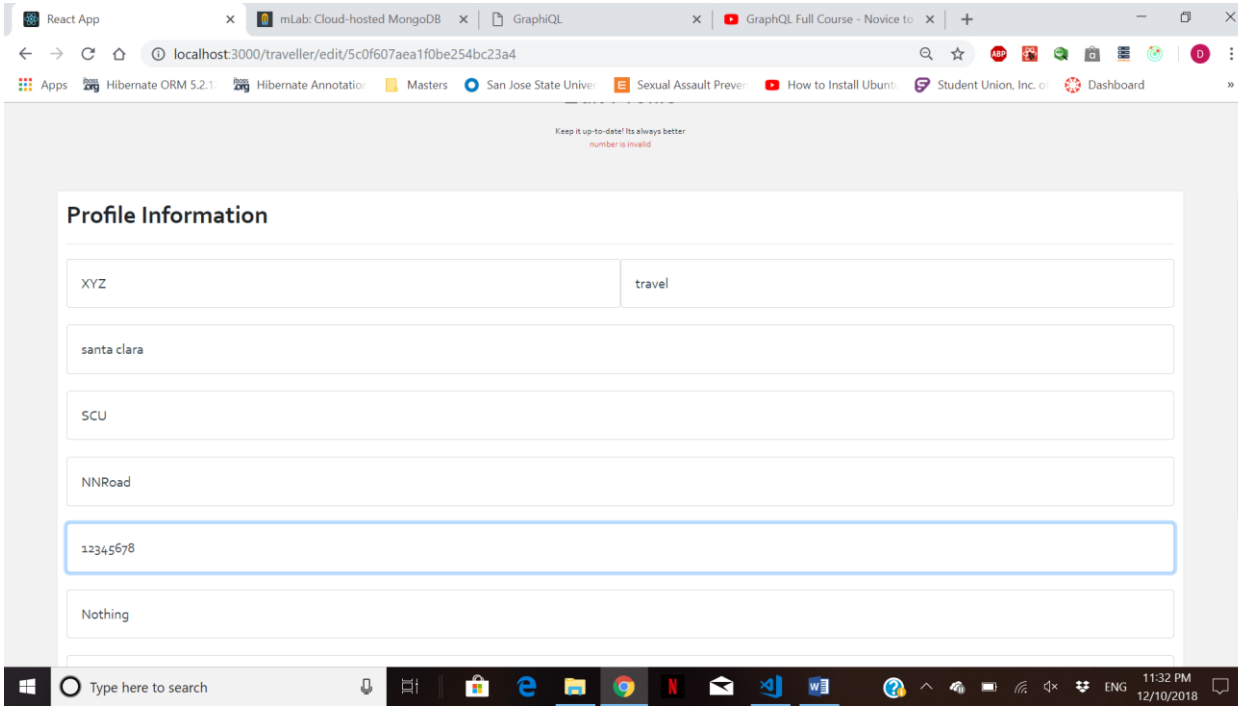


Explanation:

- First screenshot shows that the arrival date is before today's date and will show an error to the user saying "available_from is invalid".
- Second screenshot shows that the guests cannot be negative. We selected -1 as our guests which is never possible and thus it gets reflected.
- In both the cases, please notice the search button. It is disabled throughout. It will only get enabled if all the details are passing the validations.

Editing the information and keeping required fields like name blank and contact no not of 10 digits





Explanation:

- As it shows, one cannot have empty name in the database and one cannot have more than or less than 10 digits in the contact no.
- Because these validations were proved wrong, the "Save Changes" button is disabled and the user is shown the error above the form.

Question and Answers:

Q) How will you enable multi-part data in GraphQL. Dicuss two things:.

A: An architecture for using multi-partdata in GraphQL without using any open source library from Git.

Ans: Using multi-part data in GraphQL is a pain point because GraphQL basically has only 4 Scalar Type support and those are String, Int, Float and Boolean.
I have 2 strategies in mind which can allow us to upload files through GraphQL

My **first strategy** would be : Encoding the image in Base64.
Encode the image in Base64 and pass it as a string in mutation.

My **second strategy** would be: Making a different route which handles the file uploading and returns the path to the GraphQL Mutation to do necessary database transaction.

First strategy has a drawback as base64 files are bit larger than original files.
Second strategy has a drawback that GraphQL will have to wait for the file upload and basically destroys the feature of Asynchronous.

B. State any open source library for enabling multi-part data transfer using GraphQL with sample code. Argue why do you think that this particular library is a good fit?

Ans: One library that is out there to handle multi-part data with GraphQL is **multi-part-request-spec**.
It's a GraphQL extension which allows us to handle multi-part data with GraphQL.
It's a good fit as of now, because there aren't many libraries out there which handles this issue as well as this library does.
Along with that, multi-part-request-spec also has implementations like Operating batching, File deduplication, File Upload Streams etc.