

Project Report

Accommodation Web Portal

Group Name:

Double Ninety

Group Member:

Albus Li	z5126065@student.unsw.edu.au	Backend Dev/Scrum Master
Bruce Wang	z5102248@student.unsw.edu.au	Data Engineer
Stephen Wang	z5110172@student.unsw.edu.au	Front-End Dev
Jaffar Ye	z5108089@student.unsw.edu.au	UI/UX design

Overview - Architecture / design of the overall system & functionalities

Our project's goal is to develop a concise and user-friendly web application which allows accommodation providers to present their holiday accommodation on our website easily, and on the other hand, allow visitors to search the accommodation places precisely based on their requirements, to make an online reservation and to review their order. In addition, travelers can also post their renting requirements.

Three main deliverables of this project include:

1. Visitor System (Without Session)

- The visitor can only search the accommodation information based on his preferences such as location, date and review.
- If the visitor would like to move on to the step, he will be asked to sign up or login.

2. Provider System

- The provider will need to fill the form of his accommodation following the instruction so that he can present his idle accommodation online.
- The provider can increase the exposure of his accommodation by paying extra money for the advertisement.

3. Traveler System

- The traveler can search the accommodation information based on his preferences such as location, rate and price.
- The traveler can add his preferred accommodation to the watching list.
- The traveler can add the chosen accommodation to the pending list.
- The traveler can book the accommodation and make a review to it.
- The traveler can also post his accommodation requirements.

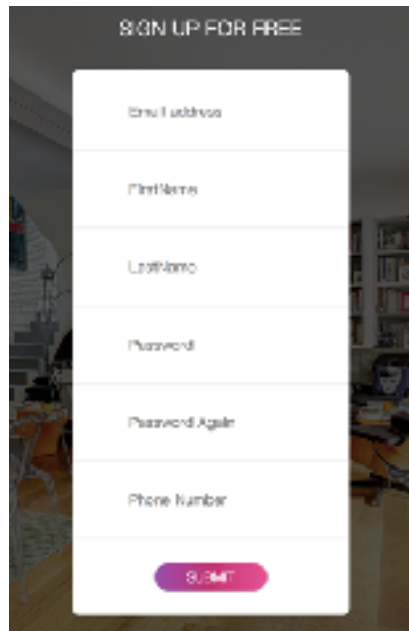
Description of the functionalities developed by the team

In this web application that we delivered, there are 14 functionalities developed by our team. I will describe the details about our function and explaining why we should have this module in our project below.

1. Register function

This function is about let the visitors of our website to be the user of our web application. In this function, visitor may insert their personal details such as

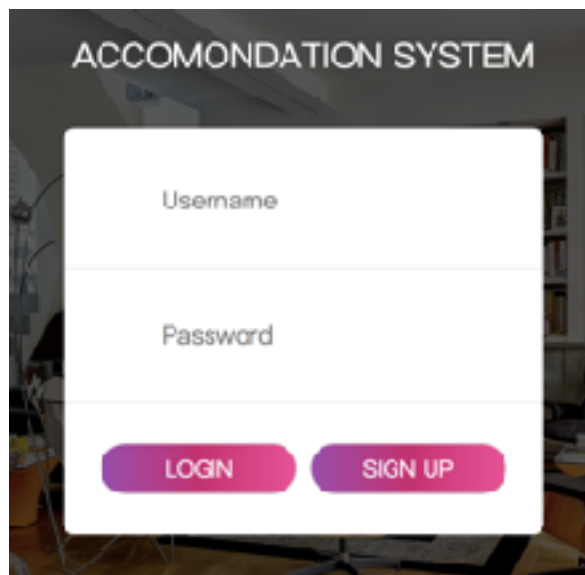
username, password, email address etc. After registration, users can login to their own account by username and password.



A mobile application interface for signing up. The title is "SIGN UP FOR FREE". The form contains six input fields: "Email address", "First Name", "Last Name", "Password", "Password Again", and "Phone Number". A pink "SIGN UP" button is at the bottom.

2. Login / Log out function

This function is about let the users to login or log out their own account of our web application. They can login with the username and password which they have registered.



A mobile application interface for logging in. The title is "ACCOMONDATION SYSTEM". The form contains two input fields: "Username" and "Password". At the bottom, there are two pink buttons: "LOGIN" and "SIGN UP".

3. Switch account type function

All users in our application will have two type in their Personal Profile page which is Traveller and Provider.

If we choose the traveller, then the webpage will show the history of the traveller and can review the accommodation which have already lived and

check the review the traveller has already make comment on it. After that, traveller can click the 'Release Accommodation Needed Information' to skip to the page to release the accommodation needed request. If we choose the provider, then the webpage will show the owned accommodation of the provider and they can pay some money for their accommodation to show their accommodation in the advertisement page. After that, provider can click the 'Release New Property' to skip to the page to release the new property.

Personal Profile

Avatar: 

Name:

Gender:

Email:

Phone:

History

Suburb	Area	Address	Start Time	End Time	Status	Action
East Hills	12-14 St	1234567890	2018-01-01	2018-01-01	Failed	View Details
West Hills	15-17 St	1234567890	2018-01-01	2018-01-01	Failed	View Details
North Hills	18-20 St	1234567890	2018-01-01	2018-01-01	Failed	View Details
South Hills	21-23 St	1234567890	2018-01-01	2018-01-01	Failed	View Details

Personal Profile

Avatar: 

Name:

Gender:

Email:

Phone:


Owned Accommodation

Suburb	Area	Address	Start Time	End Time	Room Count	Flag
East Hills	12-14 St	1234567890	2018-01-01	2018-01-01	10	<input type="button" value="View"/>
West Hills	15-17 St	1234567890	2018-01-01	2018-01-01	10	<input type="button" value="View"/>
North Hills	18-20 St	1234567890	2018-01-01	2018-01-01	10	<input type="button" value="View"/>
South Hills	21-23 St	1234567890	2018-01-01	2018-01-01	10	<input type="button" value="View"/>


4. Recommendation function

This module is built to recommend traveler for the accommodation place. It will be presented on the home page, whatever if someone logs in or not. The recommendation is based on the average rate of a property, which is listed under the section head 'Top rated Accommodation'.


Top-rated Accommodation :




3 persons, Mosun
25 Departure Place
Price: \$500 per night
Open: 2018-11-23 to 1918-11-27
Rating: 5.0/5.0 🌟





7 persons, Darlinghurst
17 Campbell Avenue
Price: \$170 per night
Open: 2018-11-23 to 2018-11-27
Rating: 5.0/5.0 🌟



8 persons, Castle Hill
5 Hunter Place
Price: \$200 per night
Open: 2018-11-23 to 2018-11-27
Rating: 5.0/5.0 🌟







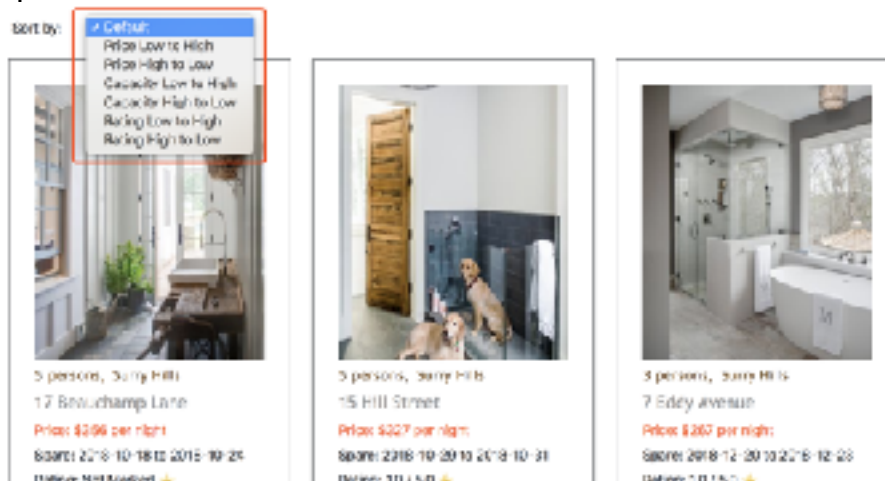
5. Search function

This function is for travellers to search accommodation which they want to rent. And providers also can search the needed accommodation which other travellers released. Users can both search the accommodation which they may want to rent and the accommodation requirements by postcode, suburb etc. After press the search button, it will jump to the Search Result page.

The image shows two versions of a search interface. The top version has a dropdown menu labeled 'Traveller' (circled in red) and a search bar labeled 'Input Suburb or Postcode' with a 'Search' button. The bottom version has a dropdown menu labeled 'Traveller' with 'Provider' selected (circled in red) and a search bar labeled 'Input your search keywords or postcode' with a 'Search' button.

6. Filter function

In this function, our application will add a filter on the search result page. At first, all the result matching with the suburb will be shown on the search result page by advertisement. In the filter, we will set options of the price and rank of the accommodation. After selecting the criteria, the result will be filtered and then presented on the website.



7. Accommodation Display function

In this function, if a user clicks into an accommodation card, it will show you this accommodation's details. We also call google map API to show the google map of the place which is chosen in our webpage.

9 Beresford Street



Address:	9 Beresford Street
Suburb:	Marsfield
Postcode:	2050
Capacity:	4 persons
Owner:	me@yahoo.com
Start Date:	2018-12-15
End Date:	2019-12-31

Description:

Lovely stay. Really well situated. Everything is as described. The place offers the look of privacy from the neighbours, welling around outside your bedroom window, where it was open for fresh air, and because it was really hot particularly in the afternoon when the sun swarmed in we had to have everything wide open.



Add to My Watch List

8. Book function (Watching list & Pending list)

After a traveller selects an accommodation and click the 'Add to Watching List' button, the system will jump into watching list. The traveller can review the accommodation in watching list for more consideration. After the traveller submit the book request in watching list, the state of the accommodation will be changed into pending and other travellers cannot search this accommodation. Otherwise the accommodation's state will change back to 'available' state and the status in the personal profile will be changed into 'cancelled'. Moreover, if there are more than one accommodation in your watching list, we add another function is that you can only choose one accommodation to your pending list.

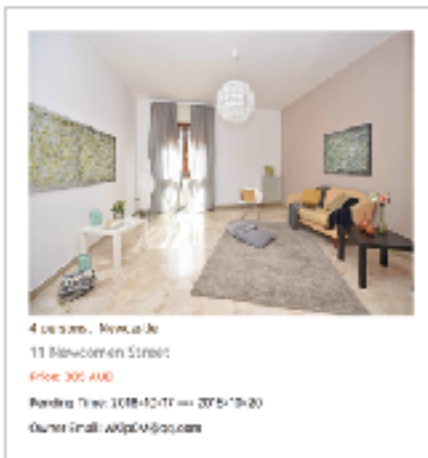
Watching List

ITEM	SUBURB	POSTCODE	ADDRESS	START TIME	END TIME	STATUS
<input type="checkbox"/>	Berry Hills	2012	17 Berryhill Lane	2018-10-13	2019-10-24	Remove
<input checked="" type="checkbox"/>	Marsfield	2050	17 Beresford Street	2018-12-15	2019-12-31	Remove
<input type="checkbox"/>	Pydney	2031	24 New Market Place	2018-10-17	2019-11-02	Remove

Add to Pending List

Back

Your Pending Transaction



9. Similar Suggestion function

This function will be shown under the accommodation detail which is chosen by the traveller. This will show some similar accommodation places as the accommodation show above.

Some Similar Near From You :




10. User Display / Edit function

This function is about the user's personal information. They can edit their detail information and it will be shown when they click Personal Profile button on the navigation bar.

Personal Profile

Profile for: Traveller



Name: Bismakda Mlad

Gender: male

Email: mco@gmail.com

Phone: 950555009

Submit

11. Review & Comment function

This function is in traveller's Personal Profile page, traveller can review the accommodation which he has lived. And traveller can see the previous review which he gave before.

Your Review for this wonderful accomodation was:

the place was fantastic. Very nice and stylish place with everything you needed. In a great location, right near heaps of great places to eat! Kate was very accomodating and helpful, letting us drop our bags off early and checking in on us regularly to make sure we had everything we needed. Would definitely stay here again!

Rating: 4.0 / 5.0

★★★★☆

History:

Suburb	Price	Address	StartTime	EndTime	Status	Review
Berry Hills	271 AUD	27 Stanley Street	2018-07-28	2018-08-02	Finished	Check Review

Review area:

Write your comment here...

Your rating for your accommodation experience is: terrible experience

★☆☆☆☆

Submit

History:

Suburb	Price	Address	StartTime	EndTime	Status	Review
Berry Hills	271 AUD	27 Stanley Street	2018-07-28	2018-08-02	Finished	Check Review
Woolongong	299 AUD	29 Techno Lane	2018-07-28	2018-08-27	Finished	Check Review
Burleighhead	333 AUD	18 Hurdle Street	2018-07-26	2018-08-21	Finished	Check Review
Macedo	275 AUD	1 Henry Road Queanbeyan	2018-10-14	2018-10-17	Cancelled	Cancelled
Woolongong	309 AUD	11 Laurence Street	2018-12-12	2019-01-06	Finished	Write Review

What's more, in the accommodation details page, we can find the all the comments to this accommodation.

2 reviews from people who commented this accommodation

2.5/5



Hana Ventola

2018-06-19



A transformed and sprawling apartment. However, the poor customer service.



Elvira Garcia

2018-08-28



Nicely renovated in a cool neighborhood close to metro and lots of things. Comfortable bed and well prepared small kitchen - I appreciated the coffee and tea. Host was super responsive and it was all great. I'd stay again.

12. Release requirements function

This function can let traveller release their rent requirement about the accommodation to let the provider know which kind of accommodation is needed recently. After traveller release this requirement, provider can search it by search bar.

Accomondation Needed Release Information

Suburb	<input type="text"/>
Postcode	<input type="text"/>
Capacity	<input type="text" value="1"/>
Start Time	<input type="text" value="YYYY-MM-DD"/>
End Time	<input type="text" value="YYYY-MM-DD"/>
Min Price	<input type="text" value="Whole Number"/>
Max Price	<input type="text" value="Whole Number"/>
Advanced Details	<input type="text"/>

Submit

Back



UNSW
SYDNEY

Register

Kingsford

Search



Amenda

Accomondation Needed Requirements

Suburb	Postcode	Capacity	Start Time	End Time	Min Price	Max Price
Kingsford	2052	1	2018-10-20	2018-10-21	300	500

13. Release new property & spare time function

This function let provider release new property and can add more spare time on their own property. This can let our application has more property on it. And

add to our database.

Property Release Information

Release New Property

Address:

Suburb:

Postcode:

Capacity:

1

Submit

Owned Property :


Suburb	Address	Capacity	Add Time
Richmond	10 Chapel Street	2	<div>Add Space Time</div>
<div>2311 10000 11111111-002</div>	<div>Add Time: 11111111-002</div>	<div>Release: whole number</div>	<div>Add Time</div>
North Hyde	10 Deodar Street	4	<div>Add Space Time</div>

Back

14. Advertisement function

This function can let providers pay money for their owned accommodations. If one provider pays more money for one accommodation, it will appear on the advertisement part in our homepage.

Profile For: Pranav




Name: Esmoriza Mipo
Gender: male
Email: keeng@gmail.com
Phone: 485675059

Submit


Owned Accommodations:

Suburb	Address	Start Time	End Time	Advertisement	Pay
Bushville	10 Scullin Street	2018-12-12	2018-12-22	200	\$18 <input type="button" value="Pay"/>


Advertisement:



3 persons, North Ryde
18 Oxenden Street
Price: \$200 per night
Spans: 2018-12-12 to 2018-12-22
Rating: 5/5.0



3 persons, Sydney
29 De Westre Place
Price: \$200 per night
Spans: 2018-10-17 to 2018-10-22
Rating: 2.5/5.0



4 persons, Watson
9 Benesford Street
Price: \$150 per night
Spans: 2018-10-18 to 2018-10-23
Rating: Not Marketed

1. Architecture

2. Back-End

JavaScript is a language different from python or java because it executes codes asynchronously. It results in huge problems when we try to do some operations that need to be run step by step. It cost us lots of time to learn the logic of 'Callback' and 'Promise' in order to execute codes at our will.

3. Database

In this project, we decided to use MongoDB as our database. However, it is a non-relational (NoSQL) data structure. On one hand, we take NoSQL's dynamic storing structure as an advantage; on the other hand, in order to manage relationships between data, we used Mongoose which is an Object Data Modeling (ODM) library for MongoDB and Node.js. Afterwards, during handling database operation, we used lots of tricks such as 'Populate' and 'Nested Array'.

4. Dummy Data

In this project, there should be some 'real' data shown on the website. This is not only for the testing and also for the demo. Due to the complex logic behind this project, making data become complex and difficult, including how to ensure the correction between the user and the property (for example, no conflict when the user decide to book an apartment) and how to write the valid spiders in order to crawl the house pictures.

5. Front-End

In this project, the framework we used in our project is React.js. Since this technology we did not use before, hence learning the new technology without tutoring is time consuming and difficult. Fortunately, by discussing with peers and self-learning, we finally learned how to use that framework to build our application.

Another challenge that we met in front-end was we need to align our UI/UX design with front-end engineering construction. It is not easy because everyone in our team has different background.

User documentation:

How to **build and setup dependencies** for running our project:

Preparation:

Before running the website, you need to install **Python**, **MongoDB** and **Node.js** at first.

1. Install Python and related packages

Please download the Python 3.x from [here](#) and install it. Then open the Terminal, type `pip install <package name>` or `pip3 install <package name>` to install the following packages in your Python 3 environment:

- a. **pymongo**
- b. **pandas**
- c. **numpy**

For example, type `pip install pymongo` to install package **pymongo**.

1. Install MongoDB

Please click the following link to install [MongoDB Community Edition](#) and there are three editions: Windows, Linux and macOS.

If you are using macOS, please strictly follow the instructions in this [link](#). We **strongly recommend** you install MongoDB with Homebrew and remember to **set permissions**.

After MongoDB is installed, please run `'mongod'` to start the server (if permission denied, you can run `'sudo mongod'`). Then, open another terminal and run `'mongo'` to ensure MongoDB can be successfully connected.

Please **ENSURE** the MongoDB successfully installed and it can work properly!

2. Install npm & Node

Since npm is installed with Node.js, please click this [link](#) to download Node.js and npm package. In addition, you can use the following command to check that you have node and npm installed.

To check if you have Node.js installed, run this command in your terminal:

```
node -v
```

To confirm that you have npm installed you can run this command in your terminal:

```
npm -v
```

Setup and Run project on localhost:

1. Type `'mongod'` in your Terminal to ensure you open the MongoDB.
2. Please open another Terminal in your own laptop and type:
`'git clone https://git@bitbucket.org/doubleninty/comp9900-mern.git'`
to download our project repository.
3. Then, type `'cd comp9900-mern/'` to enter the folder.
4. Type: `'npm install'` to install our server-side dependencies.
5. Type: `'npm run client-install'` to install our client-side dependencies.
6. Type: `'cd Datamodel'` to enter the folder `'comp9900-mern/Datamodel/'`.
7. Type `'node plz_run_me_first.js'`, it will insert the dummy data into the database. If there is no error shown in the terminal, this means success.
8. Type `'cd ..'` to go back to the upper folder `comp9900-mern`.
9. If you use macOS, type `'pwd'` to ensure you are under this path
`'<YOUR_PATH>/comp9900-mern/'`
10. Type: `'npm run dev'` to run the client & server with concurrently.

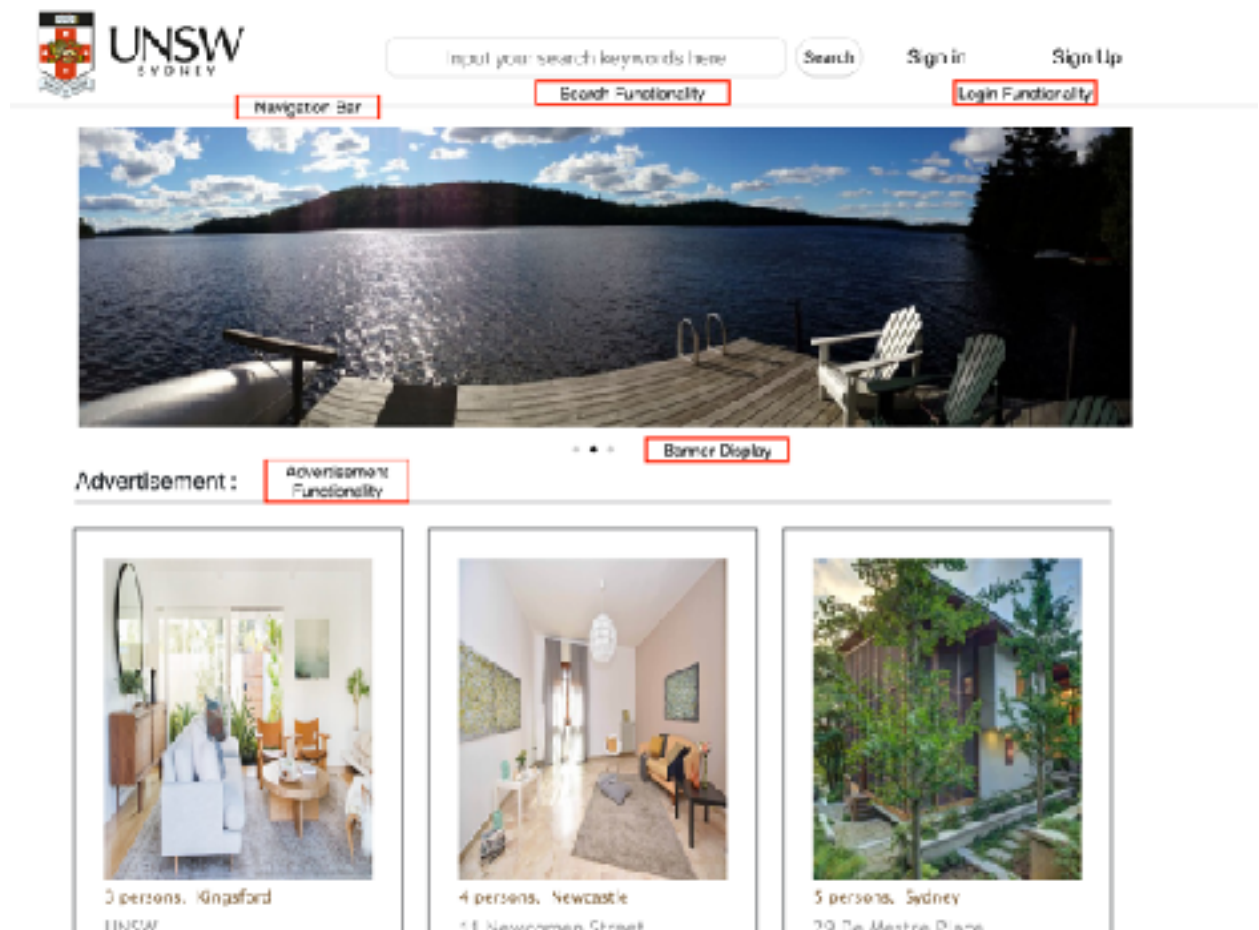
11. If the chrome window does not pop up, please open your own browser and type ``http://127.0.0.1:3000`` in the address bar.

Configure:

1. If you want to stop running our project, please press Ctrl + C to interrupt the program.

User Documentation:

When you first running our project in your browser, you may see our “homepage” like this:



On the Upper part of our homepage, you may find there is a “navigation bar” on the top side, here you may can search the available accommodation by input suburb keywords or postcode.

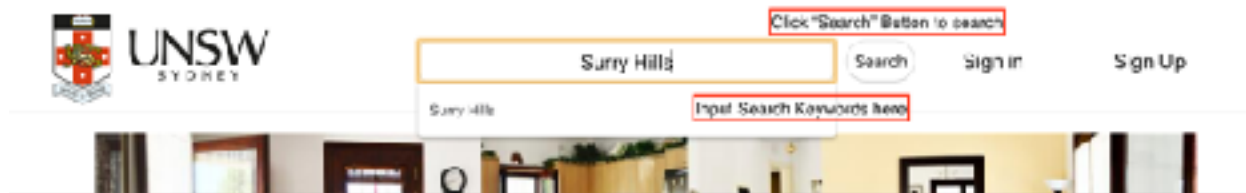
1. Search Functionalities demonstration:

- Search accommodation by suburb:

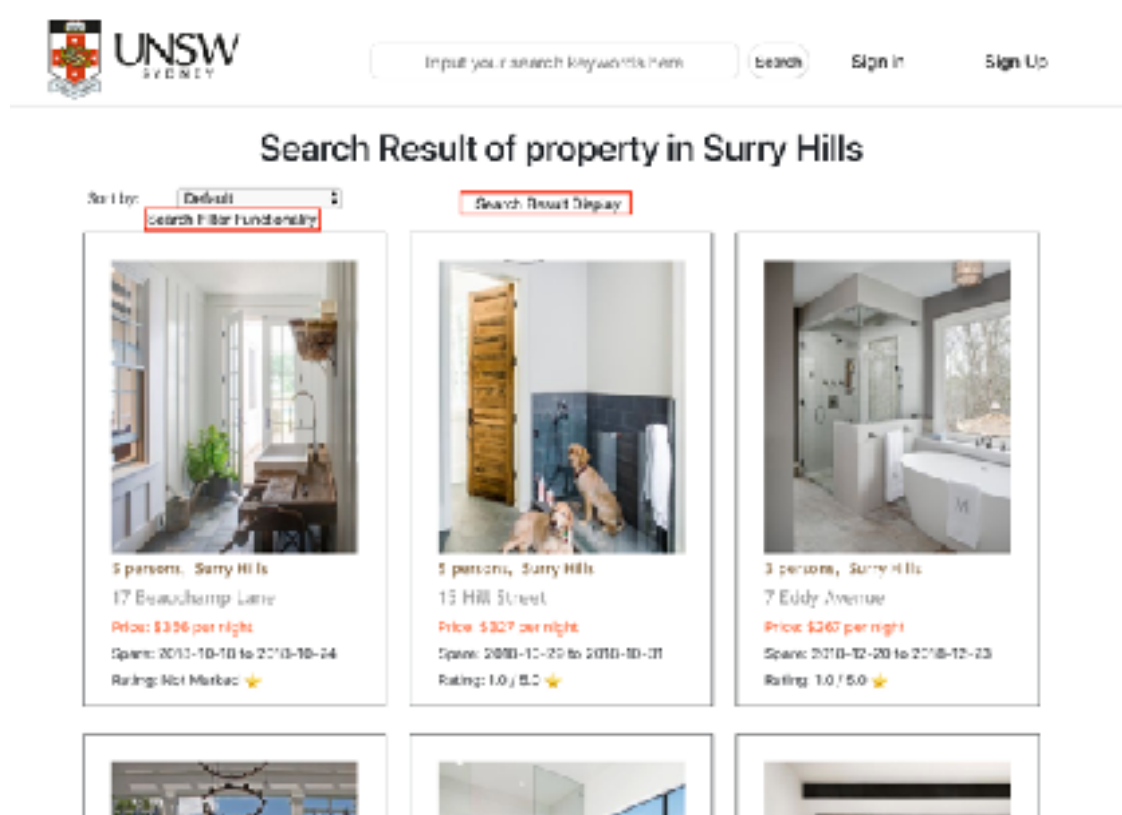
- Input suburb keyword “Surry Hills” to search bar and click “Search” button

- Search accommodation by postcode:

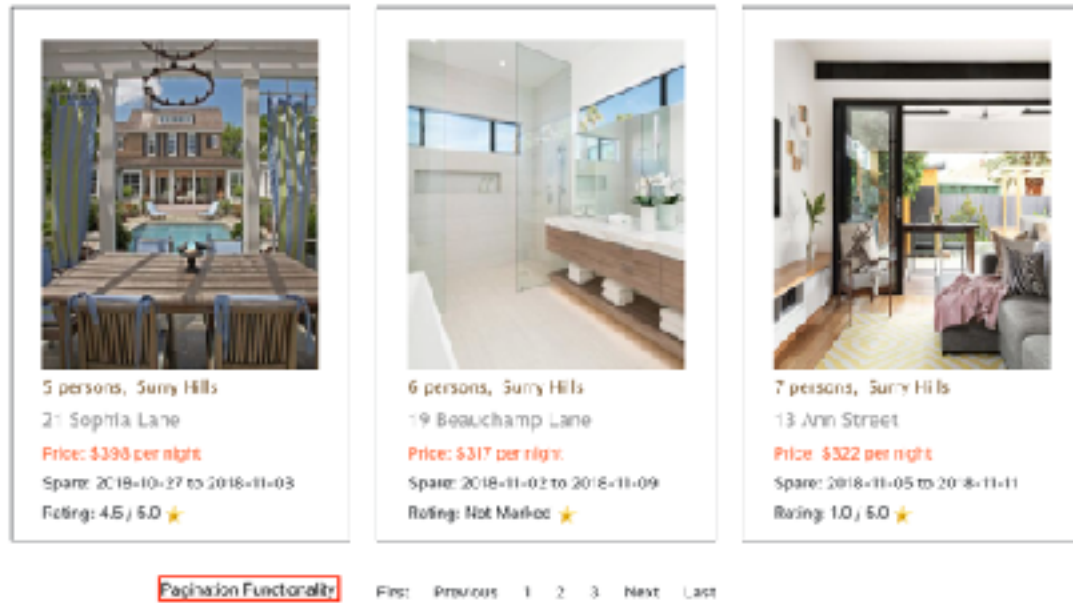
- Input postcode keyword “2052” to search accommodation where are located in postcode 2052



Now you may find the search result like this:

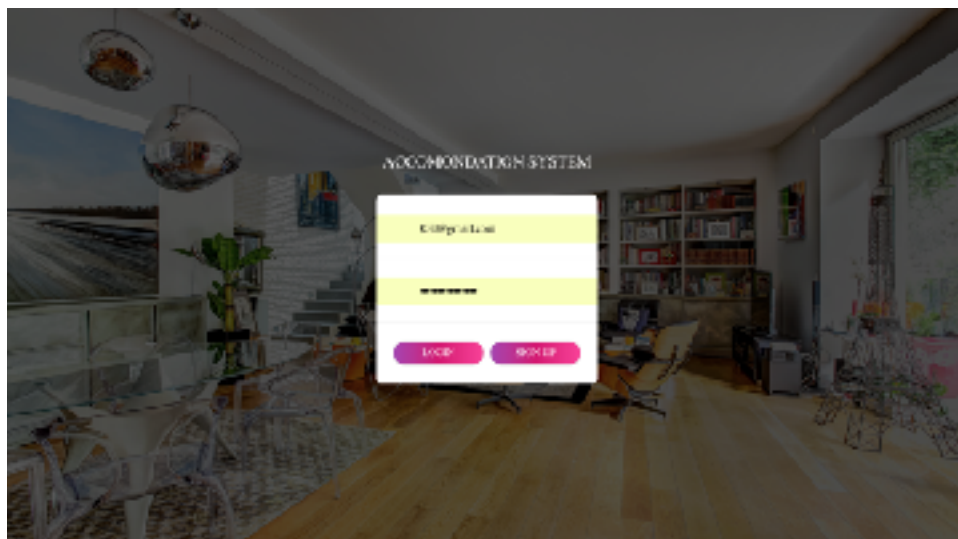


If you scroll down, you can see the pagination functionalities that can help user to get different page.



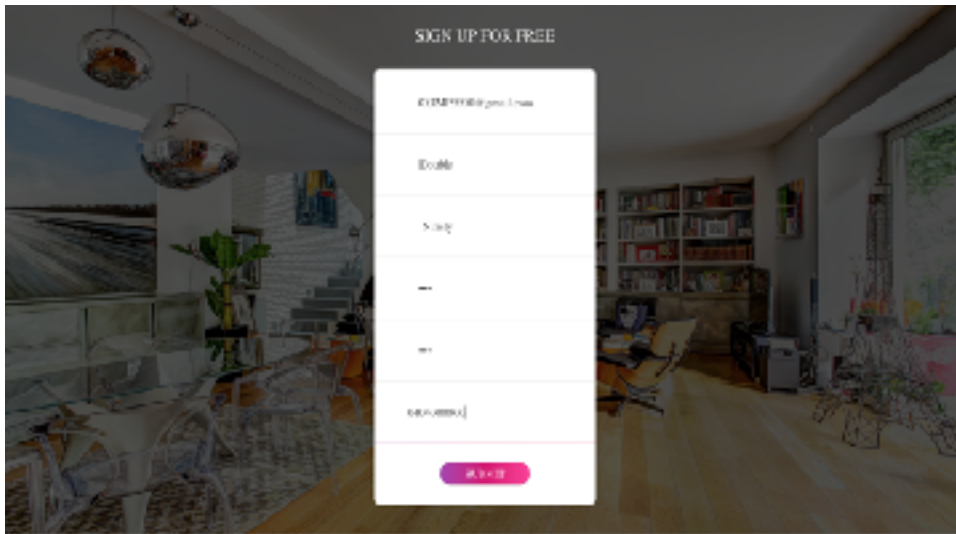
2. Login / Sign Up functionalities

If you click the “sign in/ sign up” button, you may jump to the login page or sign up page like this:

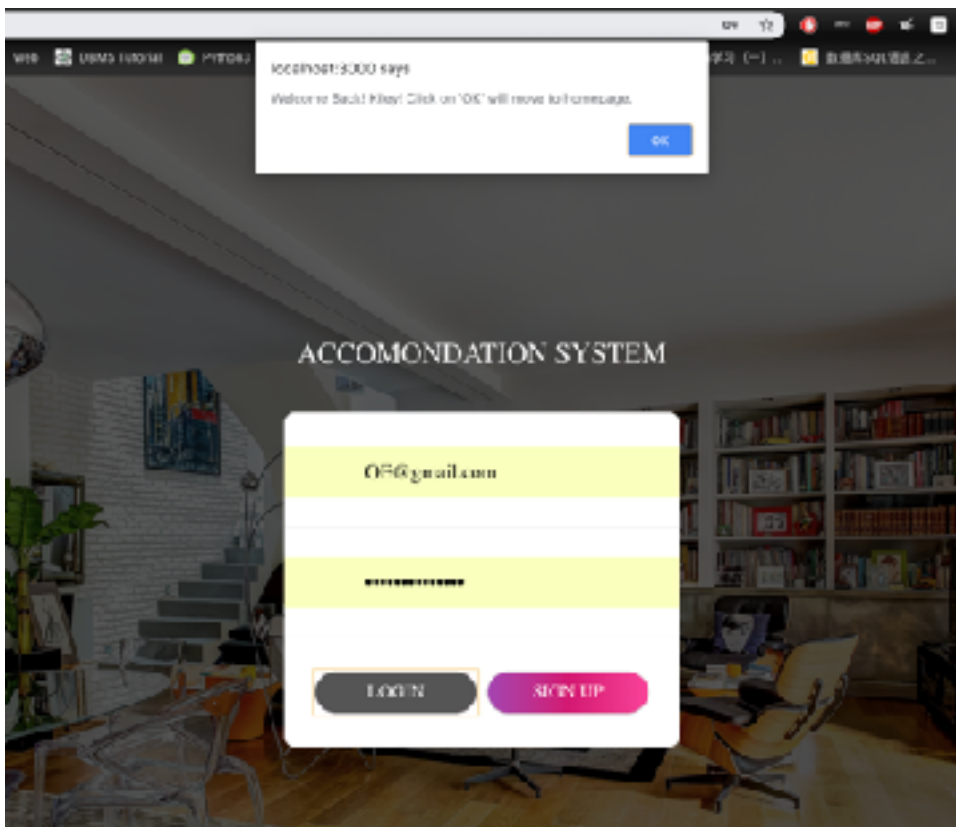


Here you may can use any user information that you can get in **mongoDB** or use a tool called **Robo 3T** to visualise database.(Root account: root@gmail.com password: root)

Below is the example for sign up function, here we did some necessary check for register




If you login to our system using user's information that we have stored into our system, you may get the information that indicates that you successfully logged in:






Now we will back to our homepage

3. Accommodation Details functionality

If you randomly click one accommodation, you may jump to the “Accommodation Details Page”, where you can check all information about this property and reviews written by other users.





Kling

23 Gardeners Road

[Accommodation Details](#) [Display Full Screen](#)



[Accommodation Photos](#) [Reviews](#)


Description:

Lovely stay! Facility well situated. Everything to be described. The kitchen area has lots of privacy from the neighbours walking around. Aside your outdoor sunroom which is well open for birds etc and because it was really hot participating in the afternoon when the sun shined in we had to have everything well open.

[Accommodation Description](#)

Address:	23 Gardeners Road
Suburb:	Mascot
Postcode:	1585
Capacity:	5 persons
Owner:	ZedDeductions
Start Date:	1/08/10 - 31
End Date:	31/08/10 - 14

[Accommodation Details](#)




[Display Full Screen](#)
[Add to Watching List](#)
[Add to Watching List](#)

2 reviews from people who commented this accommodation

5.0/5.0

★★★★★




Theresa Edgewood

2010-08-02

★★★★★

Really enjoyed this bed and breakfast. Great location and lots of privacy. Comfortable bed and well prepared food. I had a great stay. The owner and staff were super friendly and it was all great. I'll stay again.






Lisa Tompkins

12/08/08-18

★★★★★

A lovely and clean apartment. However, the poor customer service

Some Similar Near From You :

Besides, you may can click “Add to watching list” to your watching list if you want to rent this house probably.

Now we are going to try to add this property to our watching list

4. Watching / Pending List functionalities (Booking Available Accommodation System)

If we clicked “Add to watching List” Button, you may find that we are reminded that this accommodation has been added to watching list.

Now, you can put your mouse over the name of user in the top right of navigation bar,

You may find that the user’s menu has been extended, please click “watching list” to jump to your watching list.

UNSW SYDNEY

input Suburb or Postcode

Search

Kiley

Watching List

Tick	Suburb	Postcode	Address	Start Time	End Time	Remove
<input type="checkbox"/>	Menzies	2032	23 Gardeners Road	2018-12-07	2018-12-14	Remove

Tick Selector

Remove Property from Watching List

Add to Pending List

Back

Convert your property to pending list

Back to homepage

You may can click “Remove” to remove the chosen booking transaction.

You may can tick the selector in the left of every record to choose the watched transaction to pending list.

You may click “Back” to return the homepage.

You may click the “Add to pending list” to add the chosen watched transaction to pending list.

When you clicked “Add to pending list”, you may find the “Add to pending list” button has been changed to “Please check your transaction in pending list”, now, you may can choose click it to go to pending list.

Watching List


Tick	Suburb	Postcode	Address	Start Time	End Time	Remove
<input type="checkbox"/>	Menzies	2032	23 Gardeners Road	2018-12-07	2018-12-14	Remove

Please check your transaction in Pending List

Back

Click here to jump to Pending List

Your Pending Transaction



5 persons, Mascot
23 Gardeners Road
Price: 341 AED
Pending Time: 2018-12-07 --- 2018-12-14
Owner Email: ZeGf@oo.com

Pay your transaction Transaction will be successfully added to database!

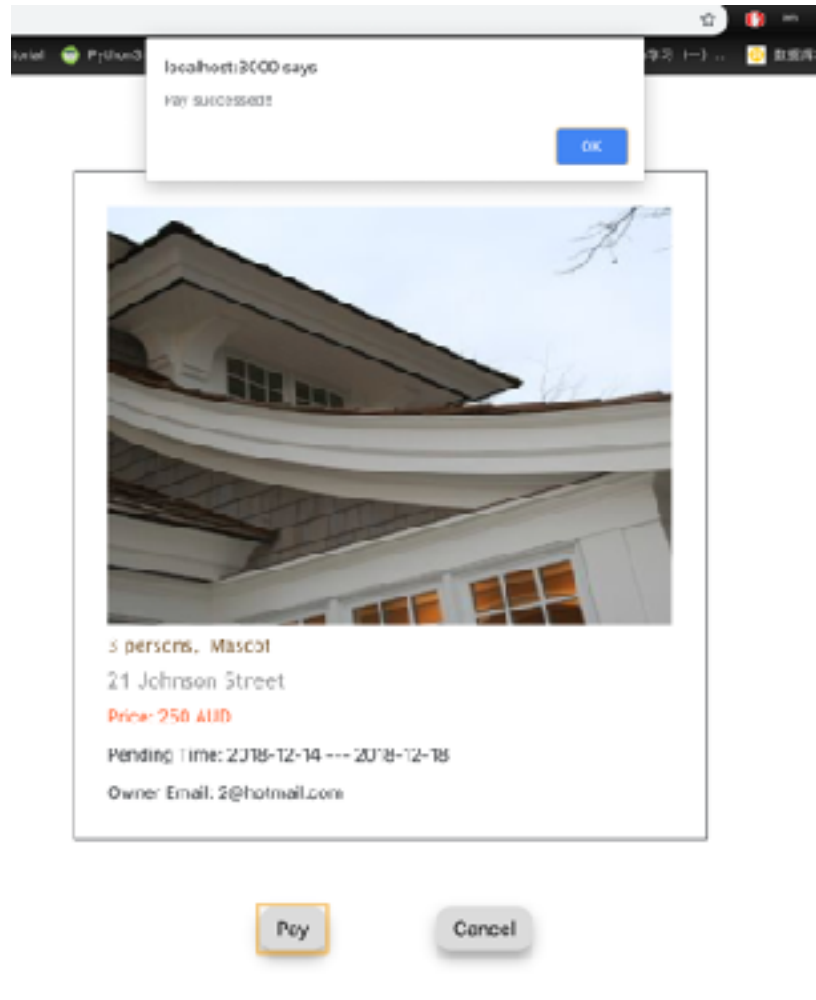
Pay

Cancel

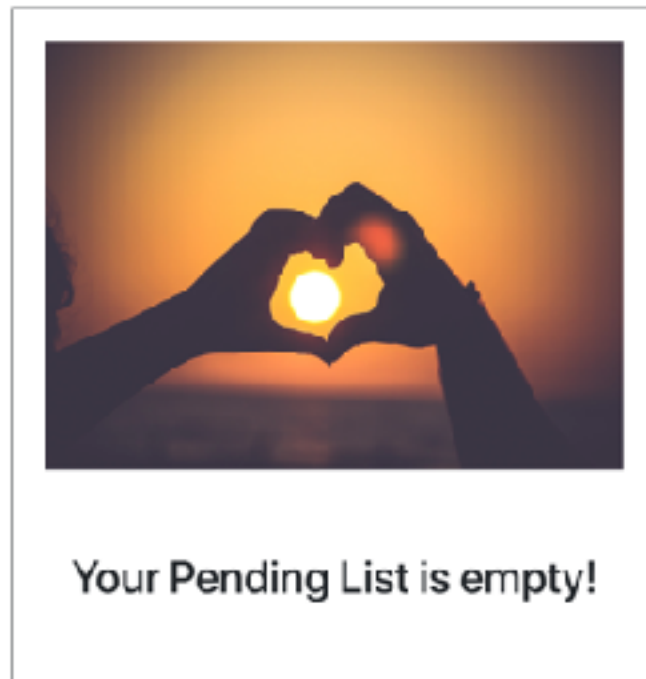
Cancel your transaction with provider

Here you can choose pay your money to provider, which means the transaction will be successfully completed, and it will be recorded to database.

Now, for demonstration, I will choose “cancel” to cancel our transaction ,and then I will add another property to property again, finally ,I will click pay to finish our booking.

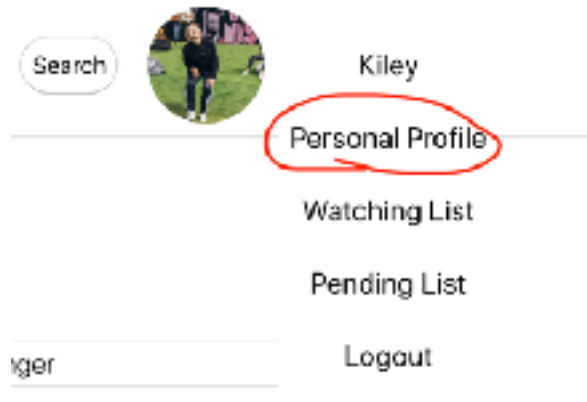


Your Pending Transaction



[Back to Watching List](#)

Now we click “Back to watching list” to back to our watching list. You may find that you watching list is empty, now we are going to check our transaction in profile, please click “personal profile”



5. Personal Profile and Posting Functionalities

Now we are moving to personal profile, here we designed a lot of functionalities that user can make interaction with our application.

You may notice that there is a toggle selector where you can switch your role from traveller to provider or vice versa

Now we are going to walk through the functionalities that we designed for user as traveller.

History:

Suburb	Price	Address	StartTime	EndTime	Status	Review
Pymont	338 AUD	17 Herbert Street	2018-10-08	2018-10-20	Finished	Check Review
Campbelltown	315 AUD	7 Broughton Street	2018-08-26	2018-08-31	Finished	Check Review
Parramatta	230 AUD	13 Hassell Street	2018-08-10	2018-08-10	Finished	Check Review
North Ryde	310 AUD	7 David Avenue	2018-08-08	2018-08-10	Finished	Check Review
Bushy Hill	251 AUD	3 Bursley Place	2018-07-20	2018-07-26	Finished	Check Review
Newcastle	382 AUD	11 Newcomen Street	2018-07-28	2018-07-30	Finished	Check Review
Sunny Hills	324 AUD	9 Bedford Street	2018-07-11	2018-07-18	Finished	Check Review
Mascot	341 AUD	23 Gerdeens Road	2018-12-07	2018-12-14	Cancelled	Cancelled
Mascot	280 AUD	21 Johnson Street	2018-12-14	2018-12-18	Finished	Write Review

[Refresh Accommodation Needed Information](#)

Here you may notice that all transaction about this user has been listed in the “history” table.

There are four different status for a transaction:

Cancelled: The booking transaction was failed.

Success but not review written: The transaction was successfully booked, however the transaction has not been commented by traveller, it will displayed “Write Review” in Review area.

Success and the review has been written: The transaction was successfully booked, and the review has been written.

Pending: The transaction has been added to watching list, need user to check in pending list.

If you clicked the “Write review” you may find that there is a review window popped up on the above area like this:

Review area:

Write your comment here...

Your rating for your accommodation experience is: normal

★★★★★

Submit

If you clicked the “Check Review”, your review will be popped up as well, however, you probably could not edit in review area, like this:

Your Review for this wonderful accommodation was:

My apartment was clean, comfortable, and in a great location. He communicates quickly and is very accommodating. Thanks again!

Rating: 3.0 / 5.0

★★★☆☆

Now, you can click the bottom button to jump to our “release accommodation needed information functionality”

History:

Suburb	Price	Address	StartTime	EndTime	Status	Review
Pyrmont	338 AUD	17 Herbert Street	2018-12-06	2018-12-09	Finished	Check Review
Camdenhill	318 AUD	7 Beauchamp Street	2018-08-26	2018-08-31	Finished	Check Review
Parramatta	292 AUD	19 Russell Street	2018-09-12	2018-09-16	Finished	Check Review
North Ryde	382 AUD	7 David Avenue	2018-08-06	2018-08-10	Finished	Check Review
Bushy Hills	258 AUD	3 Denby Place	2018-07-21	2018-07-26	Finished	Check Review
Newcastle	352 AUD	11 Newmarket Street	2018-07-24	2018-07-30	Finished	Check Review
Gumby Hills	324 AUD	8 Bedford Street	2018-02-11	2018-02-16	Finished	Check Review
Mosconi	348 AUD	28 Gardeners Road	2018-12-07	2018-12-10	Cancelled	Cancelled
Mosconi	292 AUD	21 Johnson Street	2018-12-14	2018-12-18	Finished	Write Review

Release Accommodation Needed Information

After clicked the button, we are moved to the release information page,

Accommodation Needed Release Information

Suburb:	<input type="text"/>
Postcode:	<input type="text"/>
Capacity:	<input type="text"/>
Start Time:	<input type="text" value="YYYY-MM-DD"/>
End Time:	<input type="text" value="YYYY-MM-DD"/>
Min Price:	<input type="text" value="Whole Number"/>
Max Price:	<input type="text" value="Whole Number"/>
Advanced Details:	<input type="text"/>



Here you can input your personal demands and post them.

If you want to check others post, you may can switch search role from traveler to provider:

[Amends](#)

Then you may input search suburb keywords and postcode keywords to search area. For example, I did post a demand in “Kingsford”, now I am going to search it.

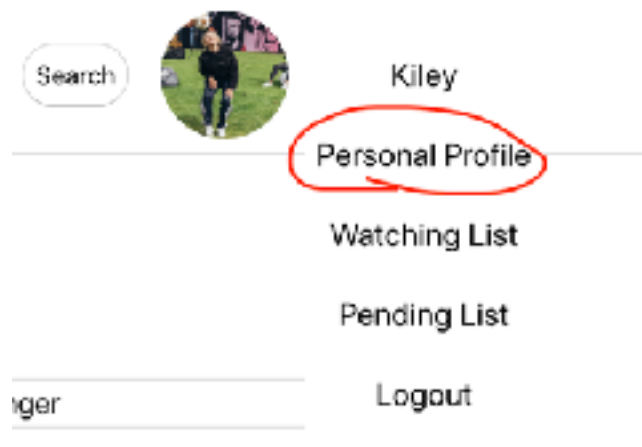
When I typed “Kingsford” in this area, you may see:

	UNSW SYDNEY	Boulder: 5	Kingsford	Search		Amanda
Accommodation Needed Requirements						
Suburb	Postcode	Capacity	Start Time	End Time	Min Price	Max Price
Kingsford	2062	3	2015-10-20	2015-10-21	300	500

Above is all functionalities that we designed for a traveller

Now we are going to introduce the functionalities that we designed for a provider.

Back to Personal Profile via clicking user menu in the top right section of navigation bar:



You can change your role in personal profile like this:

Personal Profile

Profile As: Traveller Provider



Name:

Boulder:

Email:

Phone:

You may can check the property that you owned here:

Profile For: **Provider**



Name:

Gender:

Email:

Phone:

Owned Accommodation:

Suburb	Address	Start Time	End Time	Advertisement	Pay
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And if you clicked the “Release New Property” button, we can get into the property release information page like this:

UNSW ENERGY

Property Release Information

Reference:

Suburb:

Periodic:

Capacity:

Owned Property :

Suburb	Address	Capacity	Add Time
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Now you may can input the information about the property that you want to post on our website. When you submit your post request, it will pop up a message to remind that you post successfully.

And back to the management page (click ok), you may can add available accommodation transaction date and price via clicking “add spare time”, like below:

Property Release Information


[Release New Property](#)

Owned Property :

Suburb	Address	Capacity	Price
Kingsford	UNSW Drum Lab	4	<div> <div>Start Time: 2019-12-20</div> <div>End Time: 2019-12-21</div> <div>Price: 600</div> <div>Submit</div> </div>

[Back](#)

Click Submit to submit your post, now, you may can search the property that you just put by input search suburb or postcode in navigation search bar, in the demo example, I search “Kingsford” to search this property.



UNSW SYDNEY


Traveller 0

Kingsford


Search

Avatar


Search Result of property in Kingsford



4 persons, Kingsford
UNSW Drum Lab
Price: \$600 per night
Square: 50.00 m² to 100.00 m² (10.00 m²)
Rating: Not Marked



5 persons, Kingsford
25. Bunnings Road
Price: \$200 per night
Square: 20.00 m² to 100.00 m² (10.00 m²)
Rating: 3.0/5.0



3 persons, Kingsford
25. Bunnings Road
Price: \$200 per night
Square: 20.00 m² to 100.00 m² (10.00 m²)
Rating: 3.0/5.0

Here, your post has been displayed in the search result!

6. Advertisement Function(Payment Function)

Now we are going to top up to our “UNSW Drum Lab” accommodation, to make it show up in the front page.

Back to our personal profile, switch your role from “traveller” to “provider”, you may find there is a record that you can check, also you can top up money for your property.

Since our advertisement in homepage sorted by the money that user pay for their property they owned, hence, the more money you top up, the higher probability that your property show up on homepage.

Now I am going to do the demonstration to top up our property:

Personal Profile

Profile For: Provider



Name:

Gender:

Email:

Phone:

Owned Accommodation:

Suburb	Address	Start Time	End Time	Advertisement	Pay
Kingford	UNSW Drive Lib	2020-10-20	2020-10-28	0	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;"> 112 826 593 112 </div> <input type="button" value="Pay"/> </div>

After many topped up, our advertisement value has been : 300 (if you want to see it show up, I recommend that you top up at least 300 as we randomly initialise advertisement value for some property in database)

PERSONAL PROFILE

Profile For: Provider



Name:

Gender:

Email:


Phone:

Owned Accommodation:


Suburb	Address	Start Time	End Time	Advertisement	Pay
Kingford	UNSW Drive Lib	2020-10-20	2020-10-28	300	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;"> 315 </div> <input type="button" value="Pay"/> </div>

Now, click the top-left “UNSW” to back our homepage, you will see the property that we just topped showed up on the first place of advertisement area.


Advertisement :



4 persons, Kingstford
UNSW Bruin Lab
Price: \$500 per night
Spere: 2018-10-20 to 2018-10-21
Rating: Not Marked ★



4 persons, Newcastle
11 Newcomen Street
Price: \$255 per night
Spere: 2018-10-17 to 2018-10-20
Rating: 2.5 / 5.0 ★



5 persons, Sydney
29 De Mestre Place
Price: \$265 per night
Spere: 2018-10-17 to 2018-10-22
Rating: 2.5 / 5.0 ★

References of All third-party resources used in the project implementation

- Google API
- React Express Starter: https://github.com/bradtraversy/react_express_starter
- Bootstrap v4.1.3