Casa Me

Index

     v.   testing-library/react

     vi.   Material UI || Ant design || Bootstrap

     vii.   Netlify

     viii.   json Server (Mockupping)
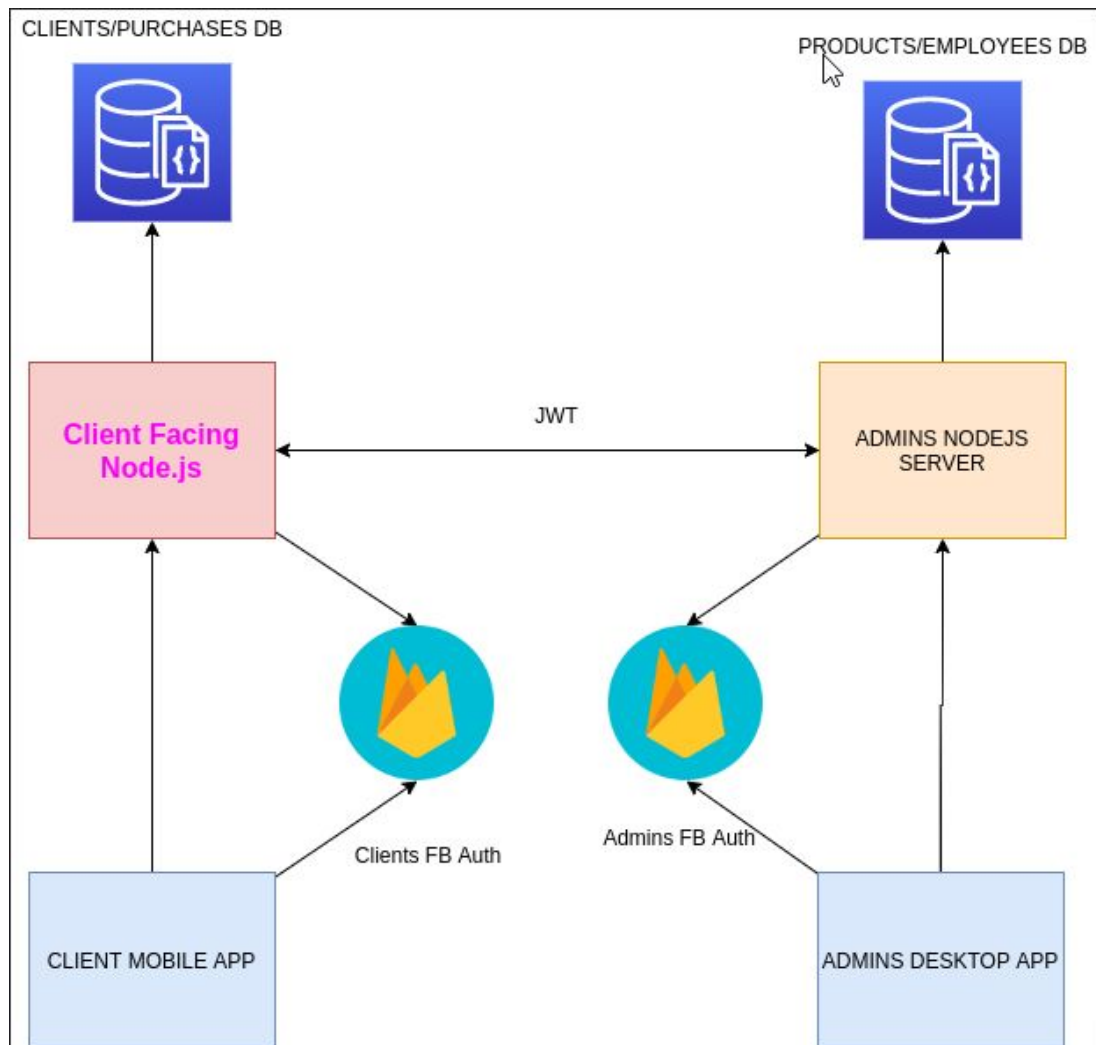
b. Back-end

     i.   Node.js

     ii.   Express.js

     iii.   Husky

     iv.   Jest

     v.   MongoDB

     vi.   Firebase

     vii.   Mongo Atlas

     viii.   Heroku

     ix.   mongoose

     x.   JWT

     xi.   joi

     xii.   fawn

     xiii.   debug

     xiv.   Docker && Docker-compose

     xv.   Github Actions

4. **Time planification:**

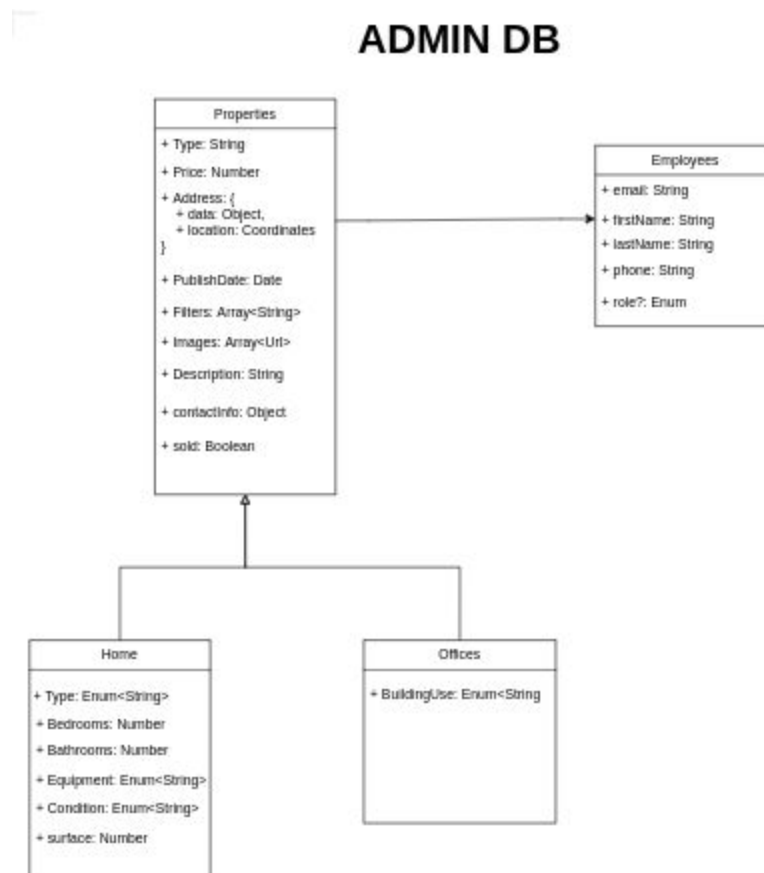   a. Timely projection

    b. Stage 1 planning

1- Back-end

App Flow Design

https://drive.google.com/file/d/1hx32Lw4r-Gud85LZH24MCBVFZ8hXsu06/view

Databases Diagrams

i. Admin

ADMIN DB

Properties
+ Type: String
+ Price: Number
+ Address: {
    + data: Object,
    + location: Coordinates
}
+ PublishDate: Date
+ Filters: Array<String>
+ Images: Array<Url>
+ Description: String
+ contactInfo: Object
+ sold: Boolean

Employees
+ email: String
+ firstName: String
+ lastName: String
+ phone: String
+ role?: Enum

Home
+ Type: Enum<String>
+ Bedrooms: Number
+ Bathrooms: Number
+ Equipment: Enum<String>
+ Condition: Enum<String>
+ surface: Number

Offices
+ BuildingUse: Enum<String

ii. Client

CLIENT FACING DB

Admin API Endpoints

- admin.casame.heroku.com/v1
  - /user
    - POST /login => role, info etc.
    - POST /register
    - DELETE /
    - GET /statistics

      response: {

          sold, available, revenue,

      }

■ PUT /profile

body: {

firstname, lastname, phone, email

}

○ /properties

■ GET
?<type>&<sold>&<bedrooms>&<bathrooms>&<equipment>&<condition>&
<surface>&<maxPrice>&<minPrice>&<publicationDate>&<...filters>

return type:

[

{

homeType: 'house',

_id: 601828c9b15fb000e2050f93,

filters: ['petsAllowed'],

images: [

'https://geekculture.co/wp-content/uploads/2019/12/Pickle-Rick-3.jpeg'

],

sold: false,

kind: 'Home',

bedRooms: 3,

bathRooms: 2,

equipment: 'indifferent',

condition: 'newHome',

surface: 200,

price: 200000,

description: 'This is the house of your dreams',

address: {

  street: 'C/Sant Antoni',

  number: 50,

  city: 'Cerdañola del Vallés',

  state: 'Catalonia',

  country: 'Spain',

  coordinates: { lat: 0.1234, long: 1.2314 }

},

contactInfo: {

  _id: 5d6ede6a0ba62570afcedd3a,

  phone: '7569283938',

  email: 'patata@mail.com'

},

createdAt: 2021-02-01T16:14:01.088Z,

updatedAt: 2021-02-01T16:14:01.088Z,

}

{

  _id: 601829717ad3a0017f2eb8af,

filters: ['petsAllowed'],

images: [

  'https://geekculture.co/wp-content/uploads/2019/12/Pickle-Rick-3.jpeg'

],

sold: false,

kind: 'Office',

buildingUse: 'coWorking',

```
                          price: 200000,

                          description: 'This is the house of your dreams',

                          address: {

                            street: 'C/Sant Antoni',

                            number: 50,

                            city: 'Cerdañola del Vallés',

                            state: 'Catalonia',

                            country: 'Spain',

                            coordinates: { lat: 0.1234, long: 1.2314 }

                          },

                          contactInfo: {

                            _id: 5d6ede6a0ba62570afcedd3a,

                            phone: '7569283938',

                            email: 'patata@mail.com'

                          },

                          createdAt: 2021-02-01T16:16:49.511Z,

                          updatedAt: 2021-02-01T16:16:49.511Z,

                        }

                ]
```

- GET /<id>
- DELETE /<id> // Devuelve la id y el address si todo ha ido bien
- POST /

  body:

  {

```
homeType: 'house',

filters: [ 'petsAllowed' ],

images: [

  'https://geekculture.co/wp-content/uploads/2019/12/Pickle-Rick-3.jpeg'

],

kind: 'Home',

bedRooms: 3,

bathRooms: 2,

equipment: 'indifferent',

condition: 'newHome',

surface: 200,

price: 200000,

description: 'This is the house of your dreams',

address: {

  street: 'C/Sant Antoni',

  number: 50,

  city: 'Cerdañola del Vallés',

  state: 'Catalonia',

  country: 'Spain',

  coordinates: { lat: 0.1234, long: 1.2314 }

},

}
```

- PATCH /<id>/sold
- PUT /<id>

CLIENT FACING API HANDLERS

- client.casame.heroku.com/v1
  - /user
    - POST /login
    - POST /signup
    - POST /logout
  - /properties
    - GET

      ?<type>&<sold>&<bedrooms>&<bathrooms>&<equipment>&<condition>&
      <surface>&<maxPrice>&<minPrice>&<publicationDate>&<...filters>

      Search should return a paginated result

      Filters allow searching by city || coordinates (optional)

      IF LOGGED IN:

      - POST /:id/fav
      - POST /:id/book
      - DELETE /:id/book
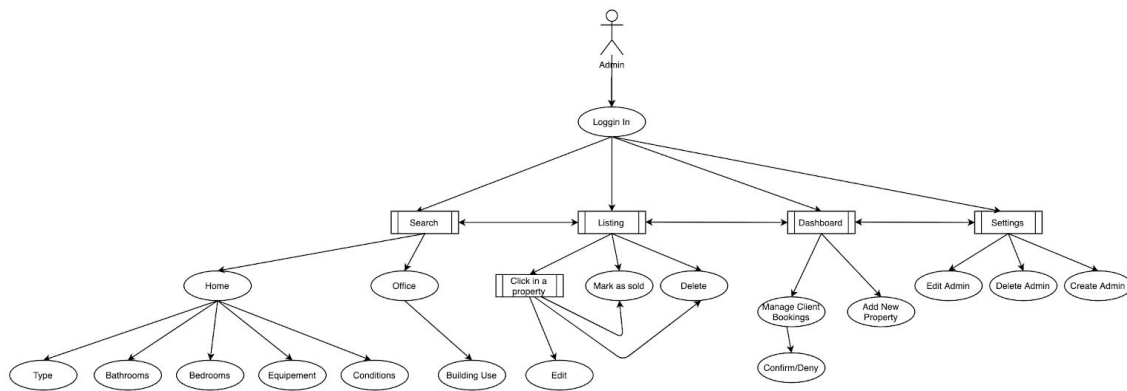   - DELETE /:id/fav
    - PATCH /:id/address

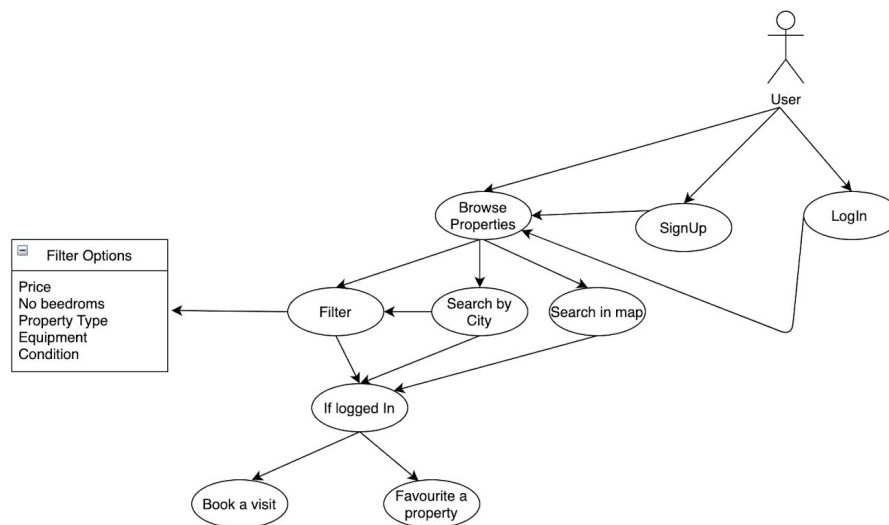ADMIN SERVER INTERCOMMUNICATION API HANDLERS
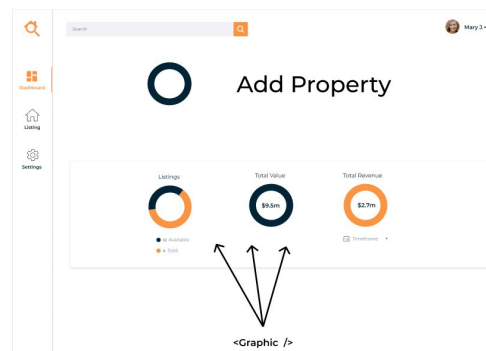
-

2 - Front-end
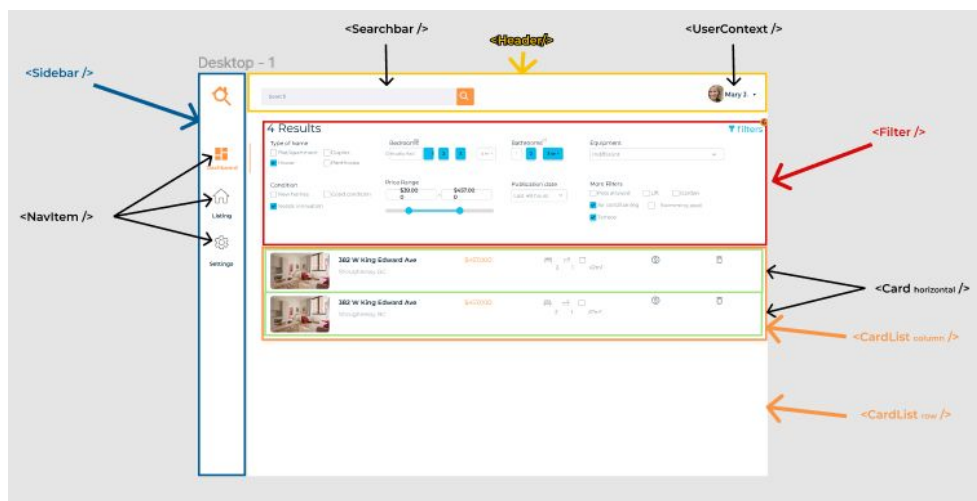
Use cases

Admin

Client

Components

This is an overview of the largest components layout. Some of them may be repeated through the app, and its repetition and influence in efficiency will be considered in the context management.

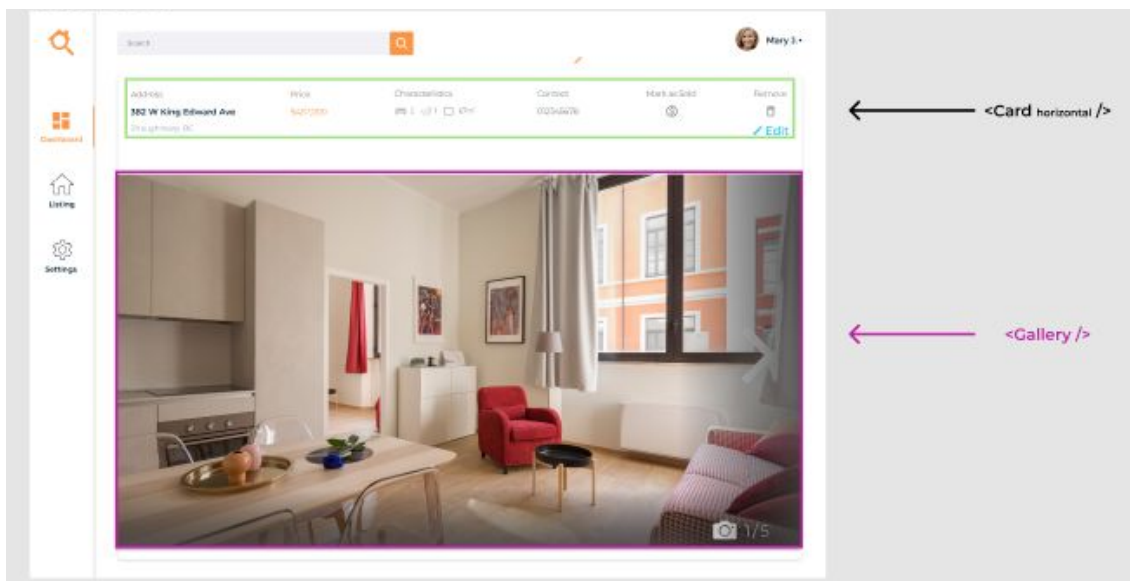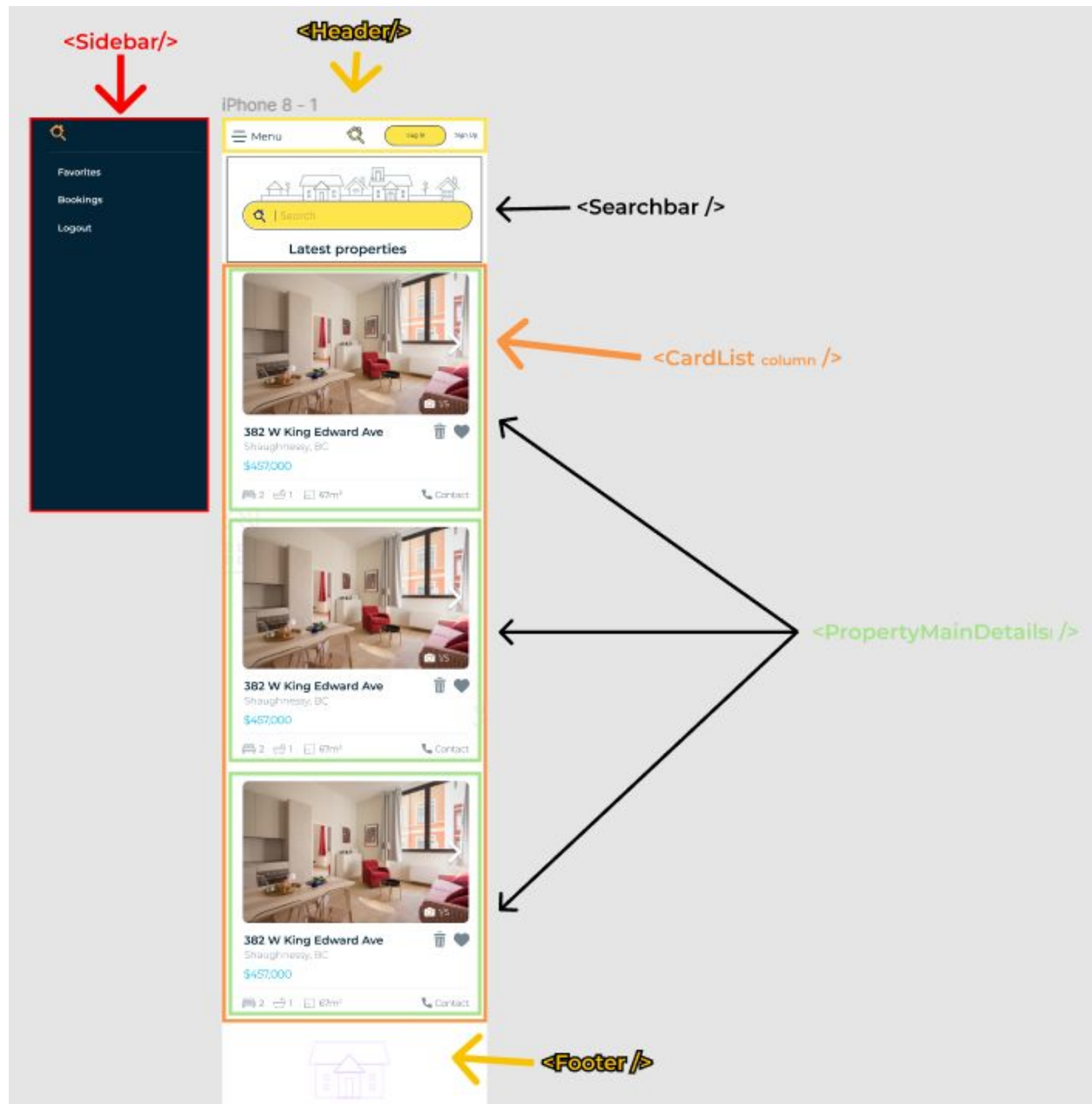### i.   Admin

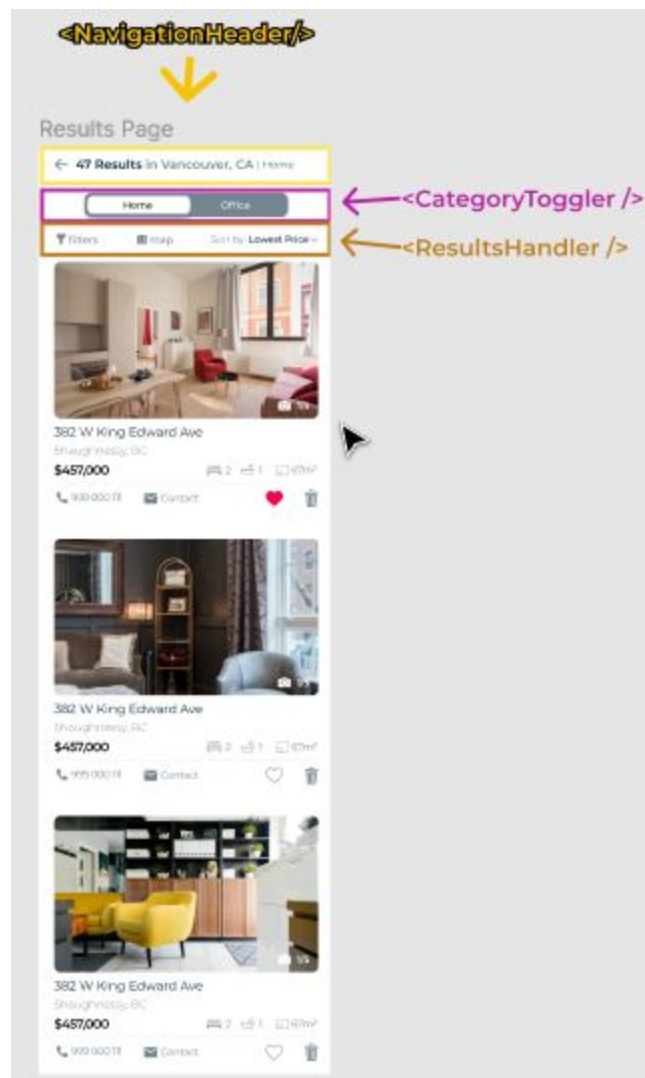## Dashboard

Listing

Property Detail

New - Edit form

ii.   Client

Home

Result page raw

Result page map interaction
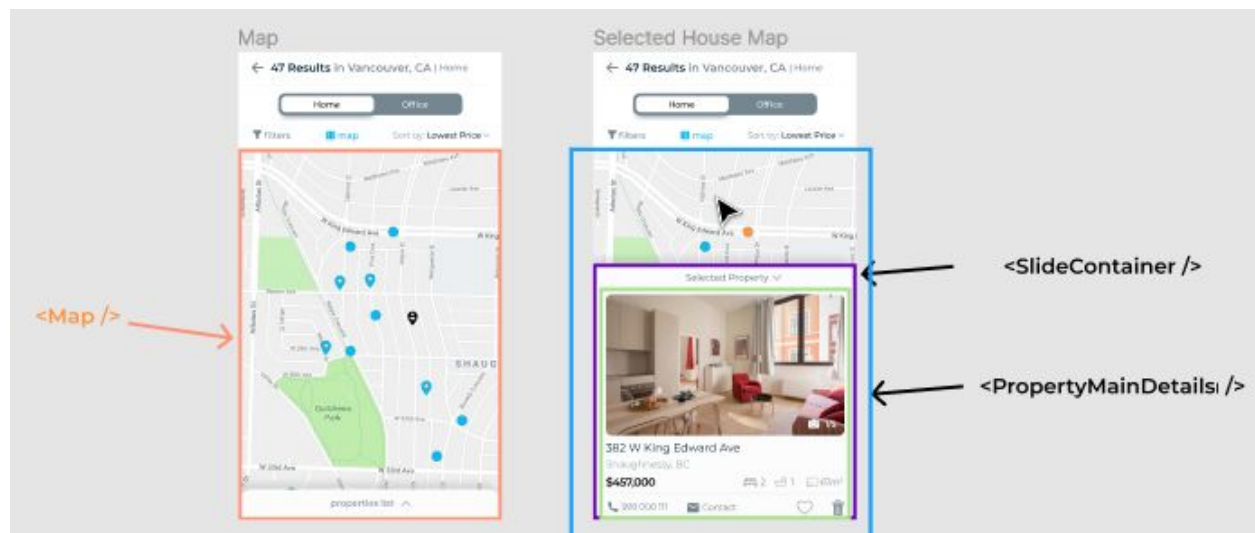
Result page filter window
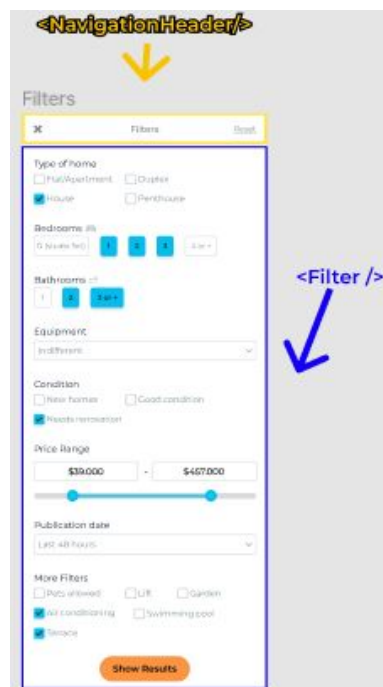
Result page Property details
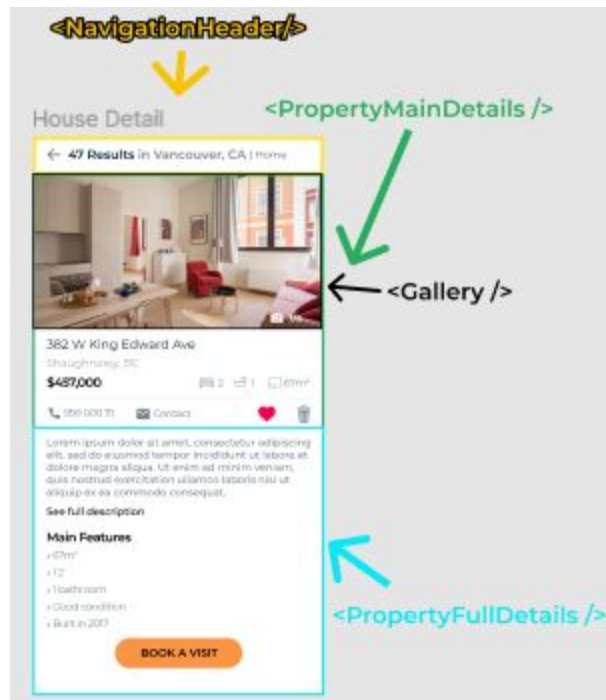
Bookings

Url of figma sketches:

https://www.figma.com/file/Czyy8vqovLTZBSZyvuMGAZ/Components-%26-Redux?node-id=9%3A554
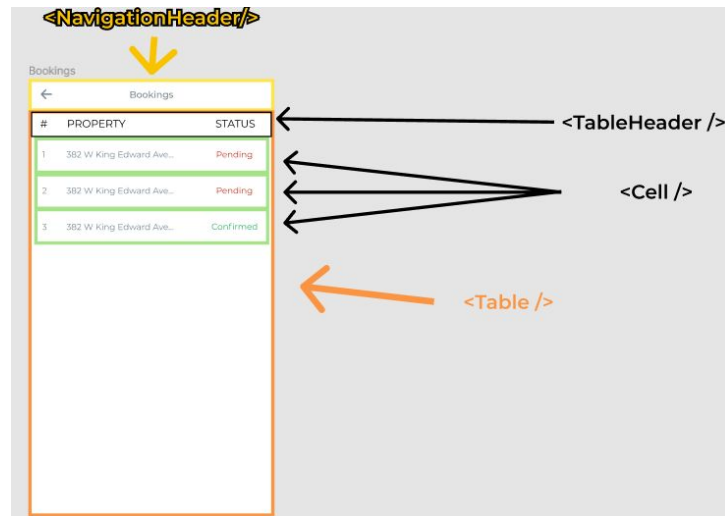
Context

Through development, we will decide which state is needed to have in a common context Redux store and which state will be delivered inside one component or its close children.

As a general rule, props and states will not travel further than two levels in the component tree.

Current user data is an example of state that will be consumed from several components in different trees of the React dom.

4 - Time planification

Time projection

We have 11 full-time working days.

After a complete analysis, we decided to divide the project in two main steps.

In the first one, we will develop the admin site repositories. In this first step, back-end development will demand more resources. So as a team, we have decided to invest 4 people in the back-end and 3 people in the front-end development.

This first stage will have definitions and implementations that eventually will be used in the second stage.

The first stage general team aim is, to build as consistent and efficient data as possible.

Our experience designing databases is deeper than developing front-end with React. That means that in the first stage - despite that front-end development may be simpler than the client facing app - the front-end team will have a learning cost that we are taking into account.

Second stage workflow will shift in resources, meaning that 4 people will be developing front-end tasks and 3 people back-end ones. Depending on the future situation, we want to assign tasks among team members in order to learn in most possible fields, as interested by each one.

Second stage general team goal is to watch and consider UX and UI as the most important areas to focus.

In general, we will invest 5 days of work for each stage, and leave 1 to polish details, refactoring, correct commentary, and review among other final details.

Summary: We divide requirements in 2 stages. In the first one, we will invest more time in the back-end and slower rhythm in the front-end to secure the next stage. But in the end, we will use half of the proper work time in each stage.

Stage 1 planning

We are using clickUp as a Kanban tool for dividing tasks in stage 1, while we face this early planification stage. We will migrate to GitHub projects as soon as we create the repositories.

Stage 2 Final Documentation

Unplanned events

The most unplanned event was one day off from a member who was ill, rest of unplanned events, by order:

- Refactor of schema because of misunderstandings with wireframes
- Docker was not working for all backend guys
- Redux much more difficult than it seemed
- Testing express, we didn't expect we had to mock middleware
- Communication with team was difficult and we had to adapt
- Lots of meetings on week 2, sense of lack of time

Lessons Learned

Back-end	
Name of lesson:	
Discriminators	
JWT	
Firebase	
Authentication	
Express	
Mongoose	
TDD	
Document while working	
More professional github workflow	
Github projects	
Github actions for integrated testing	
Heroku deployments	
Front-end	
JSX	For writing tags insideJS and improving the expectations of the code.
Fundamentals of SPA in React-Redux	

REDUX **State management**	Which is a predictable container of js app - *Makes state changes predictable*. - Ease of incorporating new functionalities to the app. - *Immutability*: read-only, 'actions' can't be changed directly. Doing it, implies issuing the action that expresses its intention to change. - *Pure functions* (reducers): being pure functions, their behavior is predictable.
The *Store*	It is where the entire state of the app will live. Instead of storing the states in the components, we store them in one place, the Store.
Reusing Components	By exporting and importing them anywhere it's needed.
ES6 classes	
Array functions	Filters and map
M. V = React . C	As React is the V of a MVC pattern, we improved the UI design.
***Properties* in React**	Which are attributes of configuration of 'Components'. Is the main mechanism for passing data from a parent to a child component.

***States* in React**	Are all the values stored by the app through properties or variables. States can include: Server responses - cached information - interface status, active paths, selected tabs, linkers ...
***States* in Components**	*State-full*: allows data to be maintained over the time. *State-less*: - pure functions (reducers) - no collateral effects - do not support lifecycle.
***Lifecycle* in Components**	Set of state which a component passes throughout its existence. 3 stages: Initialization method - Update method - Unmount method

Conclusions

This was the first time we were working on such a big project, a big team and a bigger uncertainty, fortunately we used knowledge of all of our previous projects to spend time previous to code to avoid excessive refactors. We succeeded in terms of planning because we had to tweak it very little (just a couple of schemas, relations and way we were sending data from backend to frontend). Also we managed somehow to overcome stress and planned just the work we could do. The project may not be ready but we are very proud of it!

Daily Meeting

During the course of the project we have been doing daily standup meetings to track the progress of each member of the team and help him/her in case of necessity. This approach was consensual within all members of the team.

The daily meeting consists of three parts, first each member says what have he/she done the day after, each member has 2 minutes to explain what has been done, we tried to resume it as much as possible.

The second part is what he/she plans to do for the day, in case there are no directions, the team provides a solution, because there is always something interesting to do! Also 2 minutes to explain.

The third and last part is to explain if there has been any blocking during the planned tasks, here each team can be open if the planned part was too much, or too short! (never happened). Lot of interesting issues have come up and we could be aware and try to solve them as a team.

Resume for each member:

Sukaina

Week 1

Sukaina	Mo	Tue	Wed	Thu	Fri
What did you do yesterday?	listing, add button component. Weekend add filters	commit and try to merge components. Keep working on filters	finish filter component, range slider component	connect redux with app, add prettier script, refactor folder tree	finish styles and join work with Cris and Roberto, with redux
What did you do yesterday?	button for showing new property form and showing filters	filters component	work with roberto and cris to redux refactor	help Cris create components	understand redux
What (if anything) is blocking your progress?	nothing	nothing	discord	nothing	communication with team

Week 2

Sukaina	Mo	Tue	Wed	Thu	Fri
What did you do yesterday?	Login Style - Prepare base of client repo	header component	finish filters component, starte sidebar menu	refactor drawer	table to populate and delete employees
What did you do yesterday?	Header component - Menu component	Filter component	merge of what frontend has until now	styles, start create delete component from roberto	to be defined
What (if anything) is blocking your progress?	nothing	nothing	discord	nothing	communication with team

Alex

Week 1

Alex	Mo	Tue	Wed	Thu	Fri
What did you do yesterday?					
What did you do yesterday?					
What (if anything) is blocking your progress?					

Week 2

Alex	Mo	Tue	Wed	Thu	Fri
What did you do yesterday?	Chart	search component of client facing app	try to fix bugs on cards of every property with roberto and cris	technical interview outside project, bookings view	Chart
What did you do yesterday?	Searchbar	To be defined	bookings component	contact form component	Searchbar
What (if anything) is blocking your progress?	Wireframes desing	nothing	sense of loosing time	technical interview	Wireframes desing

Roberto

Week 1

Roberto	Mo	Tue	Wed	Thu	Fri
What did you do yesterday?	modal with form for adding new property or add property, add initial config for firebase	modal working as component, lacks input for files, help others	investigate app component tree try to understand it, no redux, no firebase, helping suki	connect redux with app, add prettier script, refactor folder tree	connect backend and frontedn with firebase, exapnd redux
What did you do yesterday?	talk about endpoints, supervise workflow	help cris to glue layout, start with react state and then change to redux, commit firebase branch	start redux refactor	try to integrate forontend with backend	connect as many endpoints as I can
What (if anything) is blocking your progress?	Bootstrap, React-Modal	github projects, flow not familiar with	redux	nothing	redux

Week 2

Roberto	Mo	Tue	Wed	Thu	Fri
What did you do yesterday?	Chart	search component of client facing app	try to fix bugs on cards of every property with roberto and cris	technical interview outside project, bookings view	Chart
What did you do yesterday?	Connecting back and front de admin	Keep connecting backend with frontend and fixing bugs	mark as sold, implement search with filters, try to solve it, populate employees	filters, redux for employees	connect database with employees, decide wether to refactor or to go for new stuff. Do filters on client side, do the update on header

| What (if anything) is blocking your progress? | Link component instead of a tag - Redux | Redux | Doing support to the team (Cris), component lifecycle, Dani's call wasn't helpful :(| component lifecycle, format filters | render flow |

Cris

Week 1

Cris	Mo	Tue	Wed	Thu	Fri
What did you do yesterday?	sidebar components, started navbar	finish notifications button, component for photo admin, finish dropdown component menu for admin, started img carousel for property	investigate app component tree try to understand it, no redux, no firebase, add component to carousel with all details of a house, add props to component, it updates dynamically	connect redux with app, add prettier script, refactor folder tree	learn redux, refactor newadmin with 2 new libraries, first connect login and logout with redux
What did you do yesterday?	finish navbar component, decide with roberto what to go for	glue layout with states of react	start redux refactor, possible erro page	spinner component for loading page, create setting component for	edit property component validation
What (if anything) is blocking your progress?	Bootstrap, React-Modal	carousel, had to grab help of roberto	nothing	nothing	redux

Week 2

Cris	Mo	Tue	Wed	Thu	Fri
What did you do yesterday?	Validation new employee	create new repository for client facing app. Create property component	try to fix bugs on cards of eavery property with roberto and alex	connect redux to grab all properties	login on firebase done
What did you do yesterday?	PropertyCard client side component	Finishing main layout for the application	merge of what frontend has untill now	help dani's login, try firebase auth	on login, redirect to main page, change to signout
What (if anything) is blocking your progress?	Link component instead of a tag - Redux	Redux	Doing support to the team (Cris), component lifecycle, Dani's call wasn't helpful :(	component lifecycle, format filters	render flow

Moha

Week 1

Moha	Mo	Tue	Wed	Thu	Fri
What did you do yesterday?	firebase auth, started employees model	fix env with docker, finish model employees, prep employee controller	user router, user controller, try to test firebase auth, refactor of schemas	finish users controller, user routes, firebase auth, merge with dev	improve delete employee, joi validation, improve employee controller, work with roberto (join backend and frontend) apply some necessary changes
What did you do yesterday?	prepare controllers for login/register employee	employee controller, tests	apply schema refactor to employee controller	Joi schema validation, help roberto merge auth backend and frontend	deploy, merge employee with dev branch, help dani put validators on every endpoint, be aware of frontend possible problems to help them
What (if anything) is blocking your progress?	some changes for changing from ubuntu to windows	problems for debugging, want to test with postman	not having api token for testing firebase app	nothing	nothing

Week 2

Moha	Mo	Tue	Wed	Thu	Fri
What did you do yesterday?	Fix register - Bug fixing - Front end back end conection - Merge danis and	JWT	implement jwt between servers, we have bidirectional	finish jwt between servers, crud users, prepare endpoint	bit of everything, booking management form

	moha branches		communication now	employees to grab created employees, start state of bookings (pending, accepted)	employees (decline or accpet petition), deploy of client server
What did you do yesterday?	Define endpoints - Help to connect front and back	JWT, model and schema of clients, login and register	routes and controllers of client facing server	finish accept or reject bookings, do better delete employee	admin statitstics
What (if anything) is blocking your progress?	Nothing really - test missing jest flags	nothing, sense of lack of time	Apocalypsis: did lots of changes to an outdated version of dev, had to fixed, took a lot of time, now it's fixed	nothing	nothing

Victor

Week 1

Victor	Mo	Tue	Wed	Thu	Fri
What did you do yesterday?	pair programming with dani, schema for properties	configure env, test all models, change db due to chat with frontend	refactor of schemas, keep with filters	finish filters, finish joi implementation, merge with dev	recactor of folder tree, cleaning code, more filters test, help Dani, research Heroku CLI
What did you do yesterday?	controllers, endpoints for CRUD properties	property controller, search by filter, tests	apply index to schemas, hope to finish filters	test endpoint serach by filters, clean code, help Dani	deploy, merge employee with dev branch, help dani put validators on every endpoint
What (if anything) is blocking your progress?	nothing	nothing	current schema was not good enough to work with filters, we had to refactor	mock auth middleware, had to research how to do it	nothing

Week 2

Victor	Mo	Tue	Wed	Thu	Fri
What did you do yesterday?	Validation new employee	create new repository for client facing app. Create property component	try to fix bugs on cards of eavery property with roberto and alex	connect redux to grab all properties	login on firebase done
What did you do yesterday?	PropertyCard client side component	Finishing main layout for the application	merge of what frontend has untill now	help dani's login, try firebase auth	on login, redirect to main page, change to signout
What (if anything) is blocking your progress?	Link component instead of a tag - Redux	Redux	Doing support to the team (Cris), component lifecycle, Dani's call wasn't helpful :(	component lifecycle, format filters	render flow

Dani

Week 1

Dani	Mo	Tue	Wed	Thu	Fri
What did you do yesterday?	pair programming with victor, schema for properties	fix docker for testing, pair programming to finish model for employees. Meeting with Alinne, meeting with frontend to define endpoints	property controller (post property, tests get property by id), refactor of schemas	mock auth middleware for test property controller, post and get by id done and tested	edit, delete marc as sold implemented and tested, and start joi validation
What did you do yesterday?	controllers CRUD, endpoint for employees	property controller rest of endpoints, tests	property controller post property, search by id	edit, delete, mark as sold routes test them and joi validation	deploy, merge employee with dev , put validators on every enpoint

| What (if anything) is blocking your progress? | lack of knowledge on express and node | nothing | started get prop by id but test needed to insert property on db so shifted to create, lots of probs cause by knowledge, helped by victor and moha | did not expect I had to mock middleware to test endpoint, this consumed my morning and victor's, we ended up seeding db in the end for simplicity | test and joi validation |

Week 2

Dani	Mo	Tue	Wed	Thu	Fri
What did you do yesterday?	Deploy-Big merge from branches	Be ill. Toggle component start and switch to frontend.	implement toggle component, start login component	constinue with login	login form with cris, understanding redux, help cris do login with firebase
What did you do yesterday?	ill	define task with frontend, toggle component to learn	Login component, watch merge of all previous components with frontedn team	login with cris, auth with cris	signout with firebase
What (if anything) is blocking your progress?	Gastroenteritis	learning curve react	learning curve react	login form on react	nothing