



Waterford Institute *of* Technology  
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

BSc Software Systems Development (Honours)

# React App Design Specification

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## Report

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## Overview

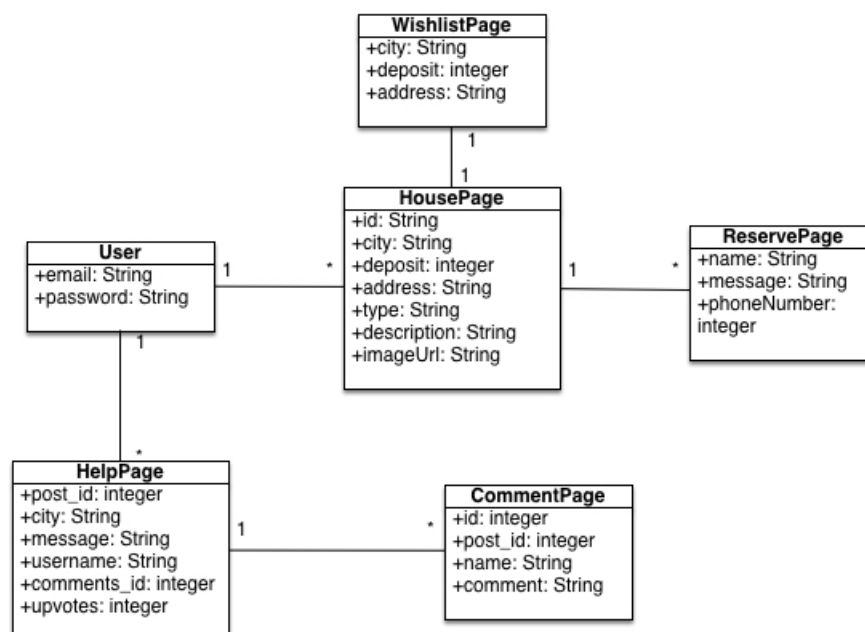
The name of my React App is Irehouse. It is an App for students to find their accommodations in Ireland. In addition, local people can rent or share their houses in my App if they will.

As we all know, it is a hard work for overseas students to live and study in a country where they never lived before. They always feel confused about where to live and whom they will live with. The purpose of the application is to make it easy for international students to find their houses easily. Besides, it will be a brand new way for local people to share and rent their houses.

List of user features:

- (1) View the houses list sorted by city or deposit;
- (2) Search the houses by type;
- (3) See the houses details;
- (4) Reserve the houses and add your information;
- (5) Add a house in your wish list;
- (6) Put up your requirements for houses in help page;
- (7) The landlord can make comments on the help messages from the students;
- (8) In both help page and comment page, the lists are sorted by the votes.

## Data Model Design



Test data example:

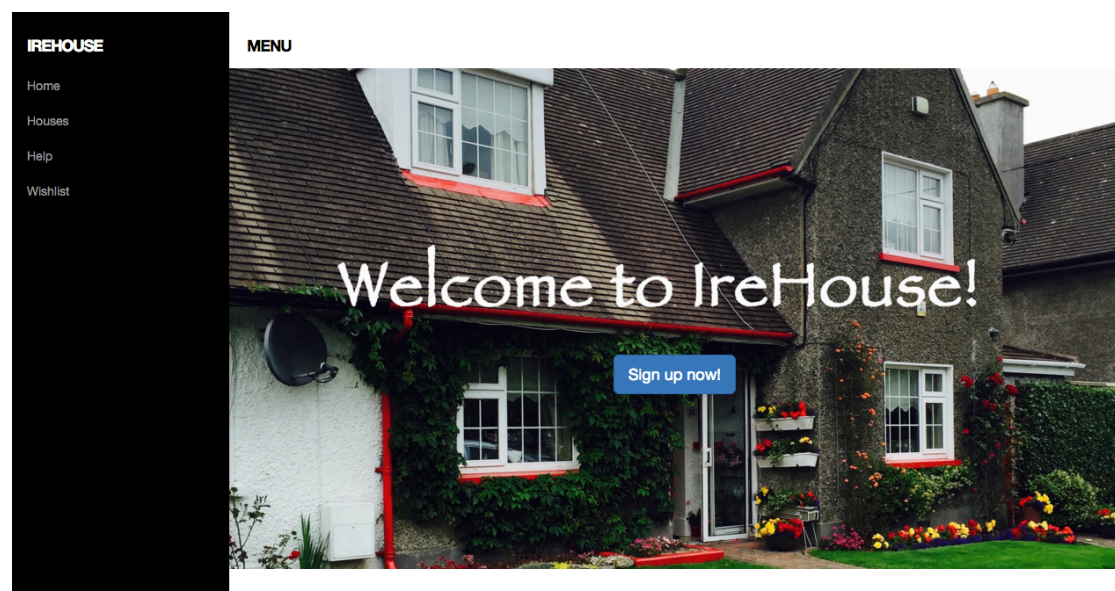
housedata.js:

```
var allHouses =  
[  
  {  
    "deposit": 170,  
    "id": "house01",  
    "type": "large",  
    "imageUrl": "app/img/houses/house01.jpg",  
    "city": "Waterford",  
    "address": "10 Ossory Drive, Lismore Lawn"  
  },  
]
```

house01.json:

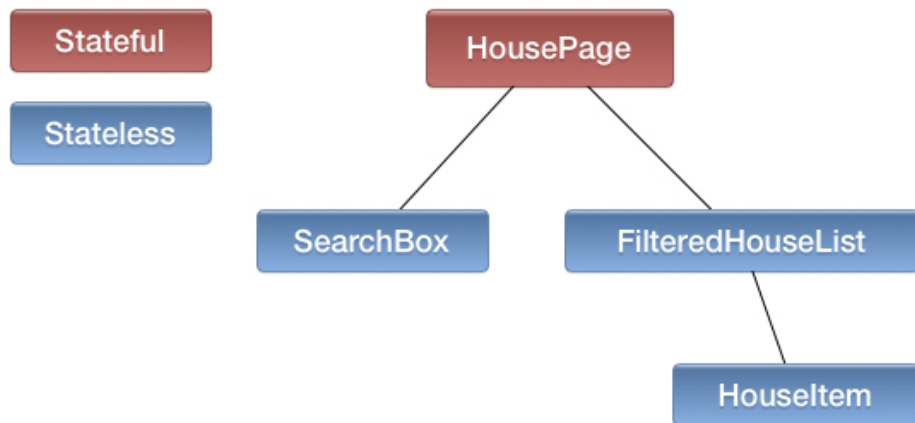
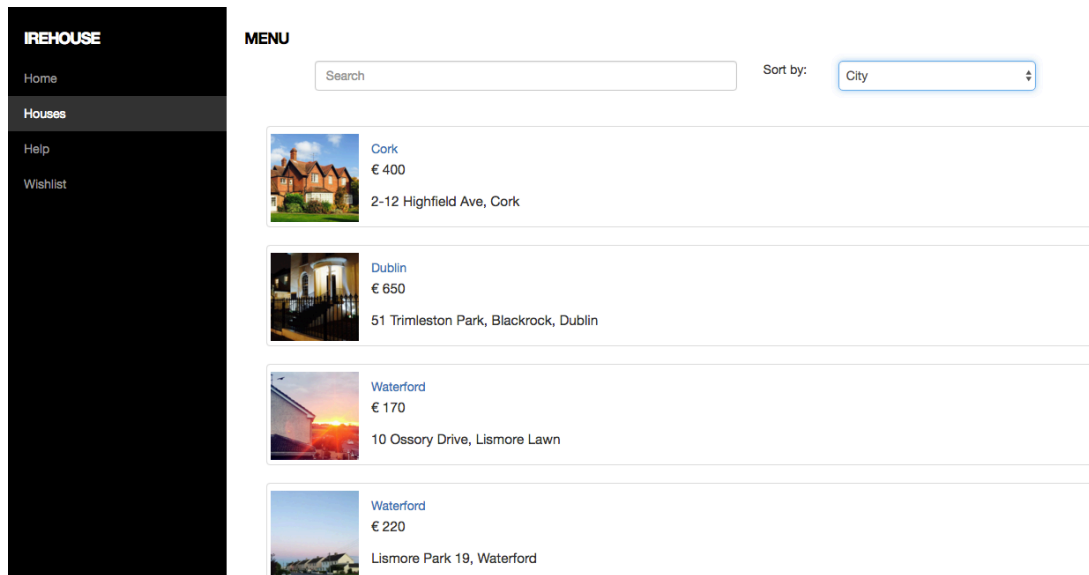
```
{  
  "description": "This is a large house with seven bedrooms and three bathrooms. There  
  "id": "house01",  
  "deposit": 170,  
  "address": "10 Ossory Drive, Lismore Lawn",  
  "images": [  
    "/app/img/houses/house01.jpg",  
    "/app/img/houses/01.jpg",  
    "/app/img/houses/02.jpg"  
  ],  
  "city": "Waterford"  
}
```

## UI Design



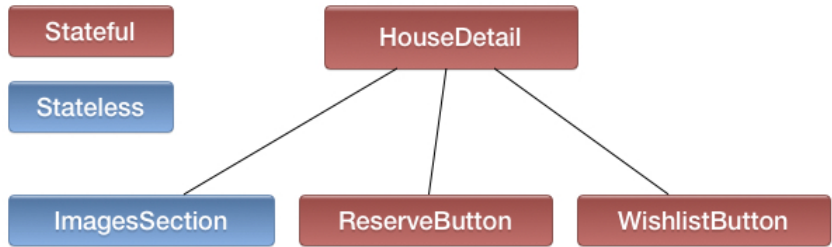
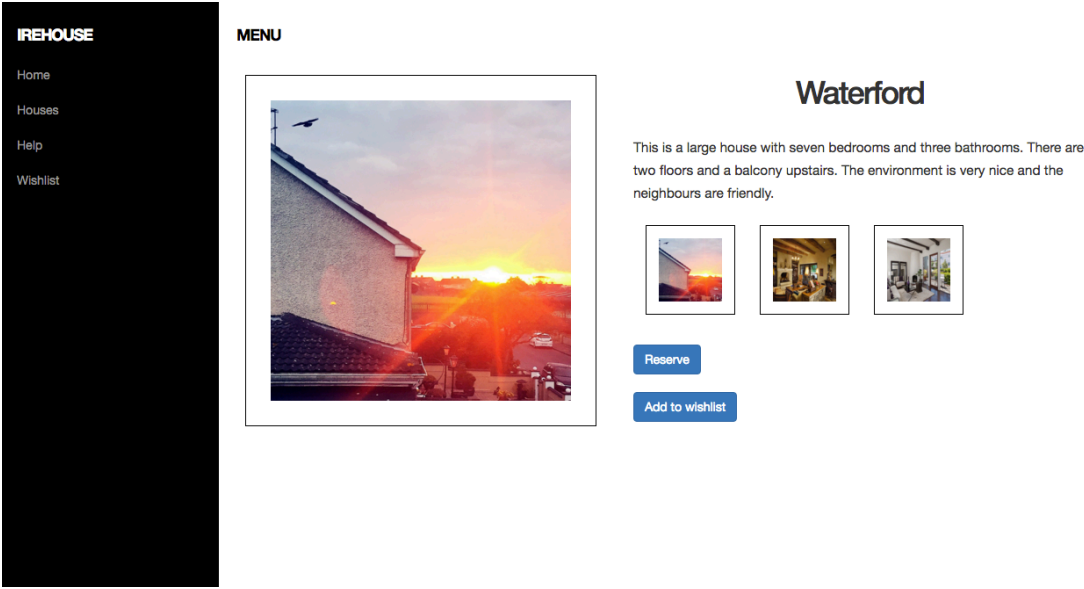
From the side menu, each side block can link to each view. In addition, each view has buttons that can link to other views.

## The HousePage View:

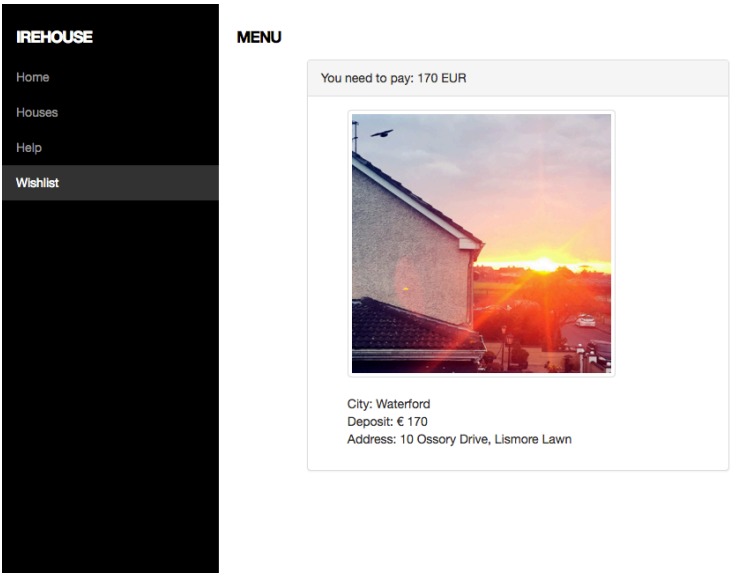


HousePage  
-SearchBox  
-FilteredHouseList  
-HouseItem

The HouseDetail View:



The WishlistPage View:



IREHOUSE

Home

Houses

Help

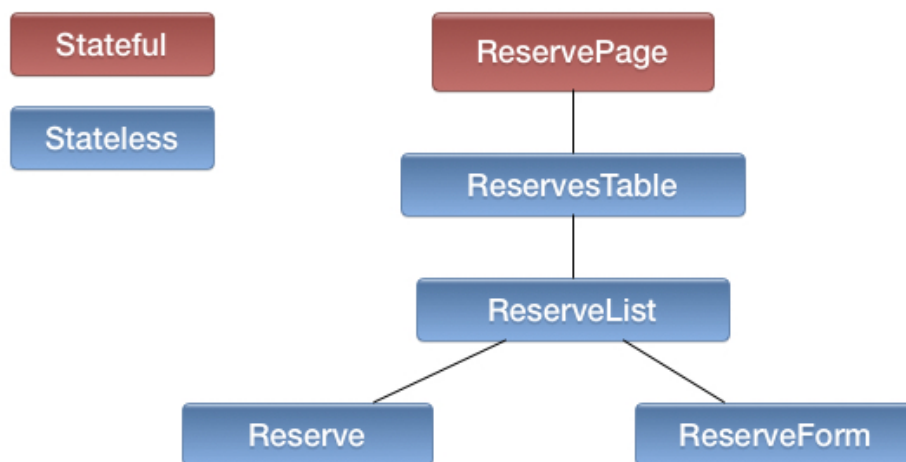
Wishlist

MENU

Reservation

Please fill in your information.

Name	Message	Phone Number		
Lucy Miao	I want to rent your house.	353-0877698880	<div>Edit</div>	<div>Delete</div>
<div></div>	<div></div>	<div></div>	<div>Add</div>	



```
ReservePage
-ReserveTable
-ReserveList
-Reserve
-ReserveForm
```

## The HelpPage View:

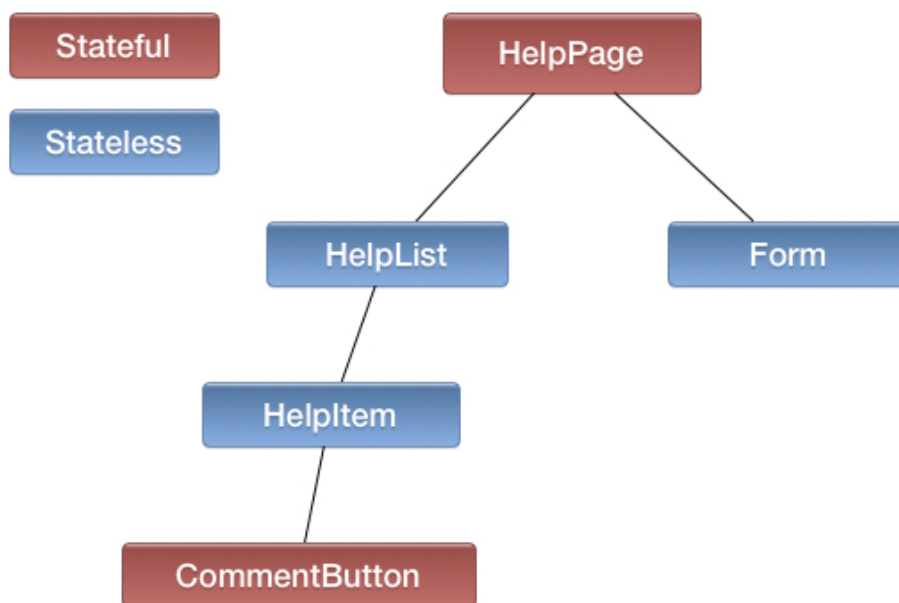
**IREHOUSE**  
Home  
Houses  
**Help**  
Wishlist

**MENU**

🔖8  
• Dublin - Ask for a House for 6 people.  
[Comments](#)

🔖7  
• Cork - I need a single room.  
[Comments](#)

**Add for a house in Ireland:**



HelpPage  
-Form  
-HelpList  
-HelpItem  
-CommentButton

## The CommentPage View:

**IREHOUSE**  
Home  
Houses  
Help  
Wishlist

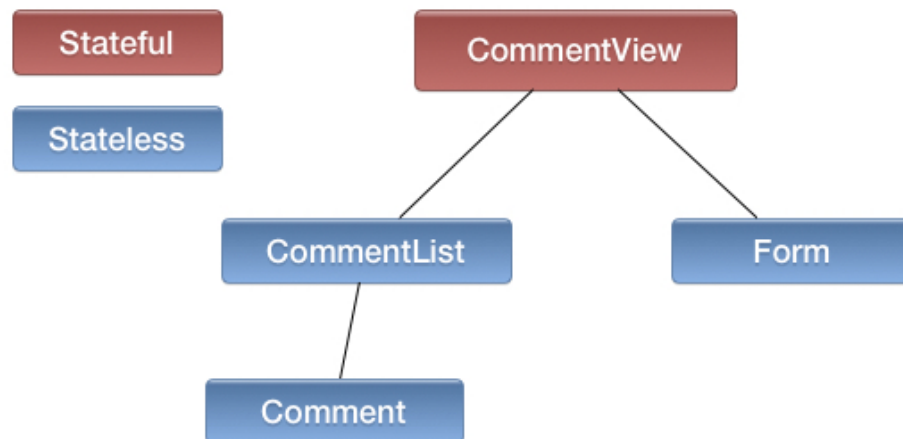
**MENU**

- **Cork - I need a single room.**

👤 - by Lily I have a house near UCC. If you want to rent my house, call me 0277698880.

👤 - by Peter I have a single room near UCC. If you want to rent it, please email me peter123@gmail.com.

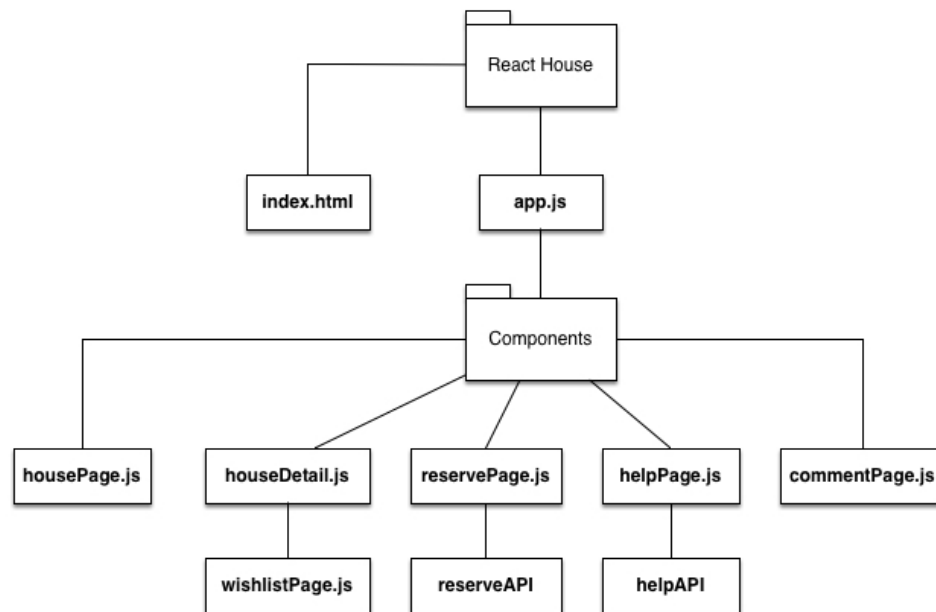
**Add a new comment**



CommentView  
-Form  
-CommentList  
-Comment



## Architecture



## Extra features

- (1) I use responsive web design in my React App;
- (2) Try to use webpack build tools and write webpack.config.js;
- (2) Sign up by React Mock and store the user information in Jason server.

## Independent learning

- (1) The WishlistPage View;
- (2) The responsive web design.