

Installation

- From the projects directory run **npm install** to install the project dependencies.
- From the projects directory run **ionic serve** to start the application.
- If on a mac press **option + command + J** to open the developer tools.
- Click the **toggle device toolbar** option shown below in the blue icon to switch to mobile view



Overview of features Used in the Mobile Application

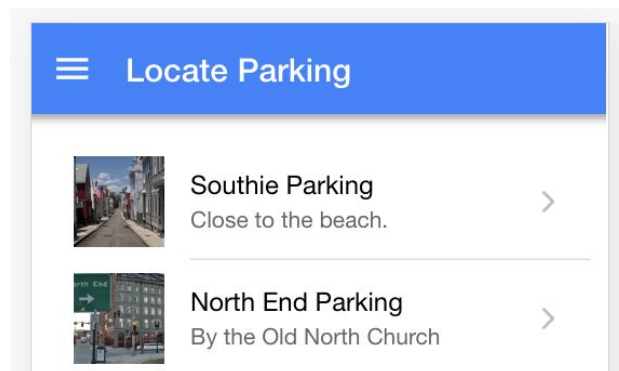
- Ionic Framework
- Local Storage
- Google Maps API

Code Organization

- **src/app/google-maps:** Contains 2 components called map and location used for the Google maps API
- **src/app/authentication:** Used for passing a user id (authentication not fully implemented).
- **src/app/parking-spaces:** Component for handling the parking spaces listed for rent. Consists of sub components for finding parking for rent, listing spaces, showing available parking, etc...
- **src/app/reservations:** handles a users reservations that they have made and allows them to make new reservations.

Mobile Application Demo

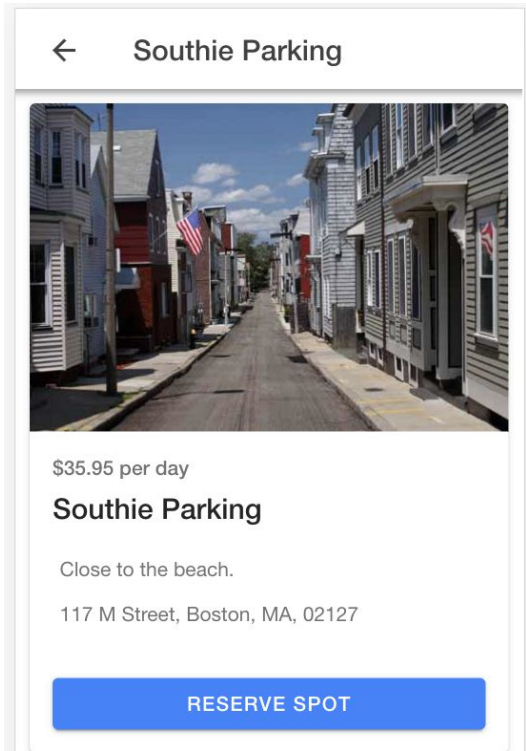
The application opens to the main page that lists available parking spaces for rent. Click on one of the preloaded parking spaces.



Click on the **Application tab in developer tools**. A new value called **parking_spots_viewed** keeps track of how many parking spaces a user has looked at.

Application	
Manifest	
Service Workers	
Key	Value
parking_spots_viewed	1

On the parking space page click on the **reserve spot** button.



In local storage a new key value pair called **spot_reserved** lists the current space being reserved.

Key	Value
parking_spots_viewed	1
spot_reserved	{"id": "001", "title": "Southie Parking", "desc": "Close to the bea..."}

Fill out the form on the Reserve Parking Spot page and click the **get parking space** button.

× Southie Parking

Reserve Parking Spot

First Name

John

Last Name

Smith

Number of days

3

From

29 Apr 2019

To

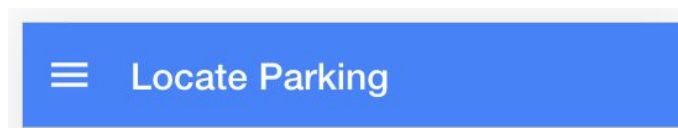
01 Apr 2019

GET PARKING SPACE

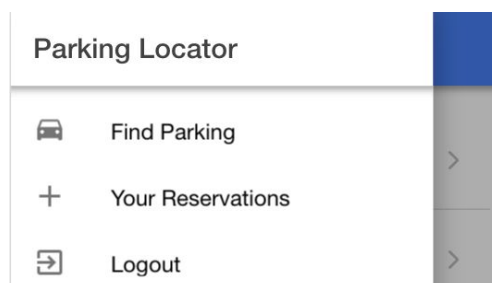
Click the back arrow to **return to the main page**



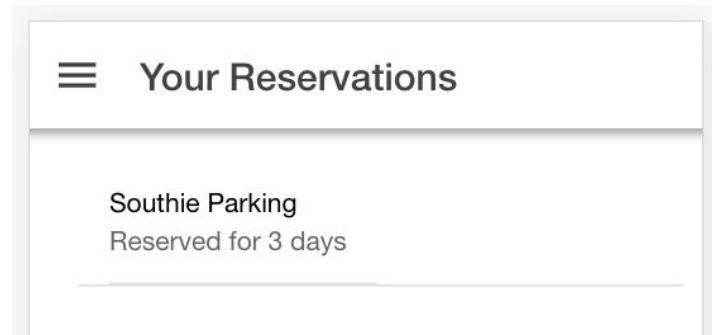
Click the **menu icon** to launch the slider.



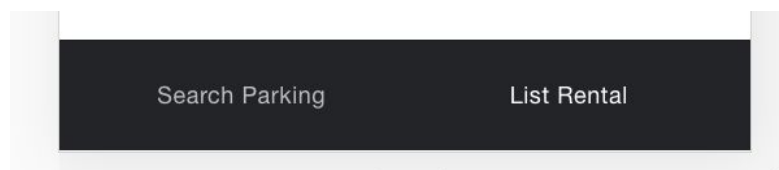
Click on **Your Reservations**.



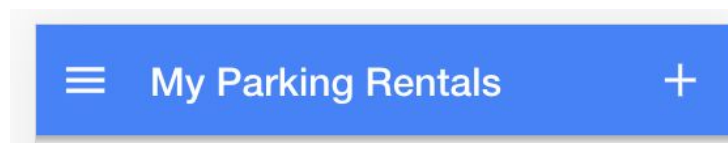
Here you will **see the parking reservation** that was just submitted.



Click the **menu icon** and select **Find Parking** to return to the main page. Next click on **List Rental** in the footer menu.



The page should be empty, this is where any rental parking you own can be listed for rent. Click on the **plus sign** in the top menu.

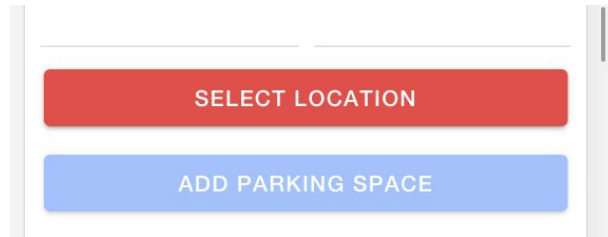


The **Add Parking Space form** will open in a modal fill out all fields. The **Add parking space button** will remain disabled until all form fields are valid.

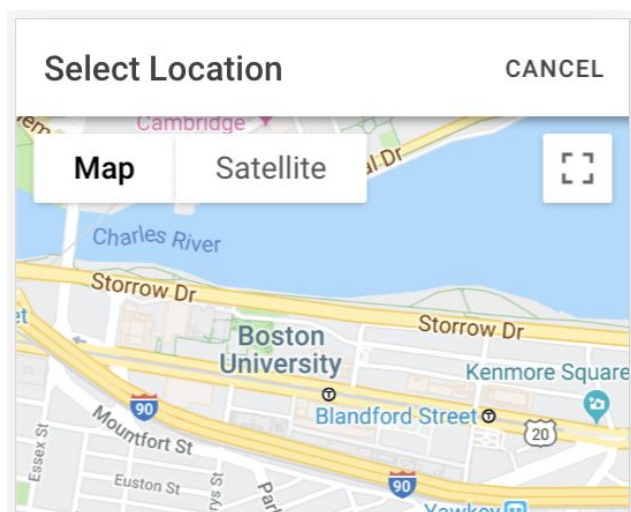
A screenshot of a mobile app interface showing a modal form. The header of the modal is white with a back arrow icon on the left and the text 'Add Parking Space' in the center. Below the header, there are two input fields: 'Title' and 'Description'. Each field has a horizontal line below it for text entry.

Notice that there is no field to enter an address for the parking space, this is where the **Google Maps API** is used to retrieve the address for the parking space.

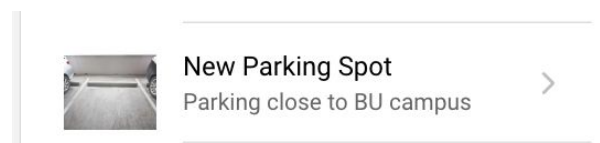
Click on the **select location** button.



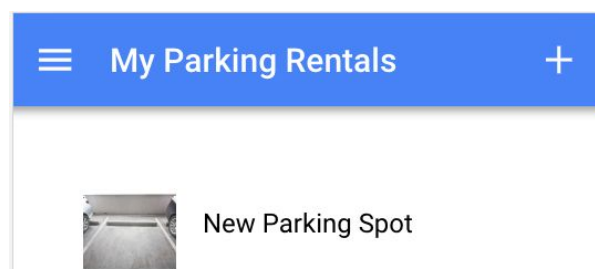
A new modal will open and there will be a map displayed. **Click on the map where your parking space is located in order to save the address.**



After selecting a location you will be returned to the form. Click outside of any form fields and the Add parking space button will be enabled if all form fields are valid.



You will be returned to the main parking spaces page and the new entry will be listed there and available for reservations. It will also now be listed under the **my parking rentals page**.



If you click on the new parking space that was just created you can see that it is now available for rent by clicking on the reserve spot button.

