

# ParKing

You made the right choice.



# Theme

- **Theme:** Smart Cities
- Whether you're zipping around in a Tesla or crawling along in an old WagonR, the hunt for a parking space is enough to drive anybody crazy. Especially in heavily populated areas, parking is an age-old dilemma. The number of vehicles in India has increased 700 times -- from 0.3 million in 1951 to 210 million in 2015 and has been increasing ever since. The problem of parking is an issue in many big cities.
- With **ParKing** you can reserve your spot from home and need not worry about finding a spot at the last moment.

# Relevance and Use

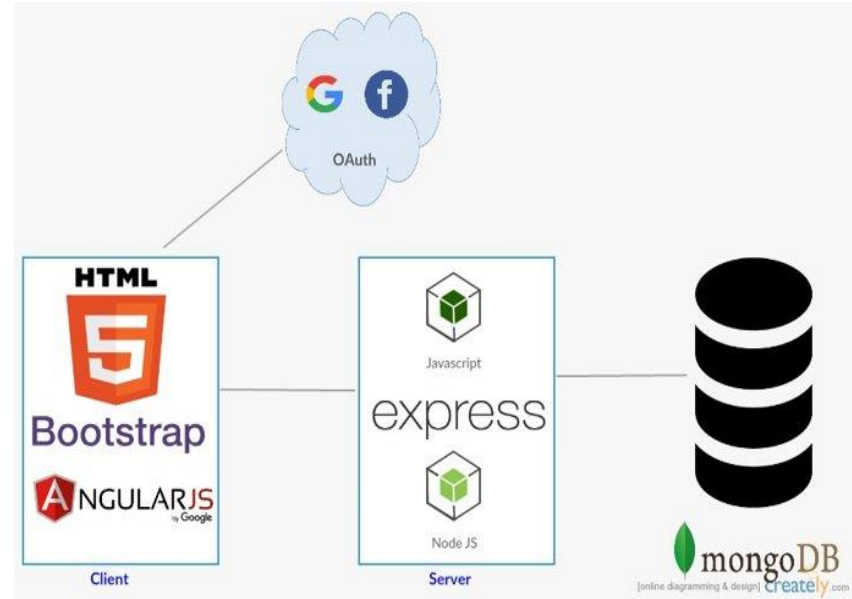
**Parking** is an online web application portal where user can search and reserve any place for parking his/her Vehicle and the application results with a wide range of locations and prices on hourly basis. Users can reserve a parking spot with their priority timings and providing vehicle registration number.

Many a times there are areas with less parking space available but there are many houses around the place. Usually these houses have no parking sign even when they are vacant. We provide an option to such people to rent their parking space on an hourly basis. This provides extra income to the house owners and also solves the problem of parking at the same time.

# Technology stack

## Technologies: MEAN Stack, jQuery, Bootstrap, Google Maps, Amazon Web services

- User can create account or use OAuth (Facebook and Google) to sign in to the app.
- Users can reserve a parking spot with their priority timings and providing vehicle registration number.
- Application triggers an email notification to user on successful registration.



# Cost of implementation and feasibility

- The cost of implementation won't be high as it is a web based application. The major cost will be of the technology platform development and marketing and sales.
- We also need some money for exploration i.e. to find the parking spaces available by contacting the people who rent those spaces and including those spaces into our database.

# Future scope

- Integration of payment gateway: Introduce wallets so that the payment process can be integrated in the application only.
  - Expanding to more locations
  - Scaling it to multi-story parking with 3D view
- Creating multi-story parking with creating 3D view in the web application so that the problem of parking is reduced further.

## FEATURES

- The application provides two user friendly layouts. One with the map view which highlights the location pointers. The other is the list view where it provides list of all the location with the details.
- Premium Membership option with added benefits such as :
  - ✓ Discounts on weekends and holidays
  - ✓ First parking free
  - ✓ With every 20 parking spots booked from the web app the user gets 1 parking free