

Parking Garage Automation

Team 5

Team Members:

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Project Significance

Finding a parking spot at any event or office is hard, especially when you don't have a reserved parking space. Parking Automation will help all the car owners find a nearby parking space online. Parking Automation will keep track of spaces in real time making it easier for the user to book a spot. This system has following advantages:

- User can save time by simply booking a parking space online
- The user will not need to fumble around to find an available parking area and waste gas while doing so
- The user will be able to see multiple options to parking areas
- The user will be able park a desired spot allowing him to choose the closest spot to his destination
- The system can provide statistics to determine which areas are the busiest ones

Required features: User stories

1. User:

- User should be able to get real time status of parking availability
- The interface should show the available parking lots and spaces within a certain area
- Ease of use interface
- The user should be able to make modifications in his parking reservations
- Reservation confirmation number should be issued to the user.

2. Admin:

- Ensure protection of automated system using user login
- Privileged access for system management
- Managing the database of the parking lots and the number of parking spaces

3. Garage owners

- Ease of interface for adding and deleting inventories of parking lots owned by that owner
- Reflecting the changes on the application like in case of construction or renovation work
- Keeping a track record of the utilities used and workers working at the parking spaces
- Real time data check of current parking space usage

Desired Features:

- From the user's point of view who is booking a slot both online and offline reservations should be available.
 - The process of reservation should be simple, secure and fast.
 - Fraud protection is expected from the parking owner's point of view.
 - Less complex and ease of modification from the admin's perspective.
 - Real-time status should be available.
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On-demand basic service application

Project Significance:

An On-demand basic service application aid people in managing their busy lives. These On-demand applications enable people to hire someone to manage their household chores like cleaning, plumbing, lawn mowing and also include personal care like grooming.

This application includes myriad of advantages it offers which include:

- 1) It provides all home related services under single platform.
- 2) The customers can book appointment beforehand and can choose between varied service providers.
- 3) It provides flexibility for service providers to choose their own timing, working hours and conditions.
- 4) This application manages billing and payment transaction thus relieving load on the service provider and providing different payment options for customers.
- 5) It gives a wider platform for service providers to reach greater audience and for customers to view different services.

Required features: (User stories)

Users

- As a User I need to be able to select the desired service instantly.
- As a user I need to be able to pay securely and safely.
- As a user I need to be able to sort the service providers.
- As a user I need to be able to send my accurate GPS location to the service provider.
- As a user I need to be able request a specific date and time slot.
- I need to get accurate vender information and his ratings.

Admin

- Manage if the users and venders are genuine.
- Add and remove users and vendors based upon their reviews.
- Promotions in the application
- Ensuring a proper payment gateway
- Providing time to time updates