

**Software Engineering Project**

# **ONLINE CAR PARKING RESERVATION SYSTEM**

Group-5

# Members

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## Problem Statement

Currently, most of the existing car parking systems are manually managed and a little inefficient. In urban areas, where the number of vehicles is higher as compared to the availability of parking spaces, a lot of time being wasted in searching for parking locations. Hence online booking parking system is a proposed method that users can reserve their parking places using the web. Providing a simple web application for parking vehicles. Booking for a parking slot at home. Can search nearby places using Google map. Easy payment system. Parking owners can add their own parking places. Make it easy to automate parking owners and customers.

## What we aim for?

Fast response time.

Fast recovery from the  
disconnection.  
24x7 availability.

The user should be  
provided with a guide  
for the same.

**Increasing  
the customer  
base**

Data Security  
Atomicity

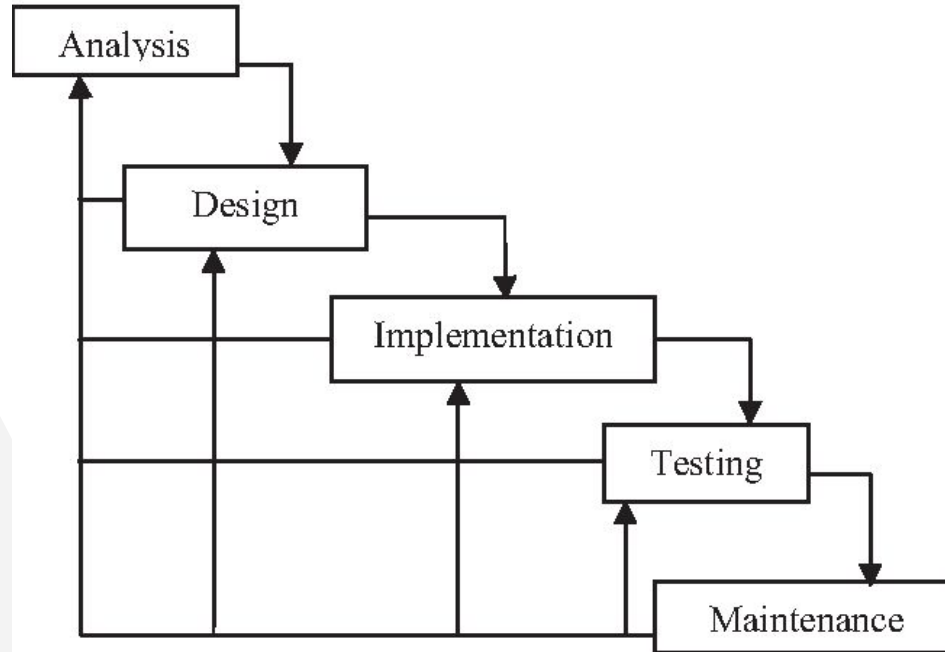
Availability of  
information as  
required.

Booking/Cancellation  
/Edits allowed.  
Easy Payment.  
Feedback generation.

## Type of Process Model

- ❑ We went for Iterative Waterfall model as it provides feedback paths from every phase to its preceding phases, which is the main difference from the classical waterfall model.
- ❑ Initially we opted for Classical Waterfall but since it was too rigid and gave us very few options for testing hence, iterative waterfall was the best option.
- ❑ It is simple and easy to understand and widely used. It have a feedback system which leaves room for improvement.

# Type of Process Model

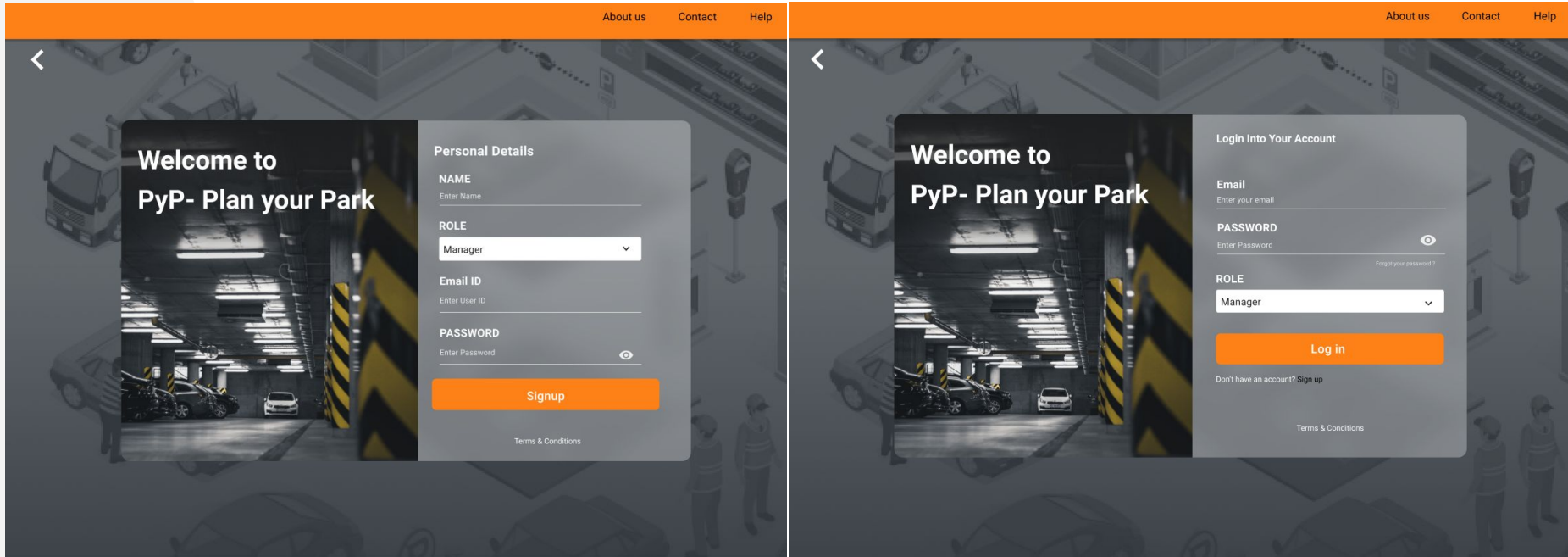


Src: <https://www.semanticscholar.org/paper/A-comparative-study-between-iterative-waterfall-and-Trivedi-Sharma/6f6a9f339ddbe4478954fc139fbde7a3111599a7/figure/2>

# Frontend Progress

- ❑ We have focused more on UI for our project. We have created the designs for web pages and have created the prototype.
- ❑ We have designed the following webpages :
  - ❑ Home page
  - ❑ Login, Signup
  - ❑ User Pages: Searching for the slot, Booking, Adding vehicle details
  - ❑ Owner Pages: Dashboard to edit and add the parking slots, Viewing the customer status
  - ❑ Payment and receipt
- ❑ The Goal will be to make the website User friendly and Responsive.

# Frontend Progress





# Frontend Progress

LOGO

## Search Your parking

Enter Parking Location

Surat

Date

Start date

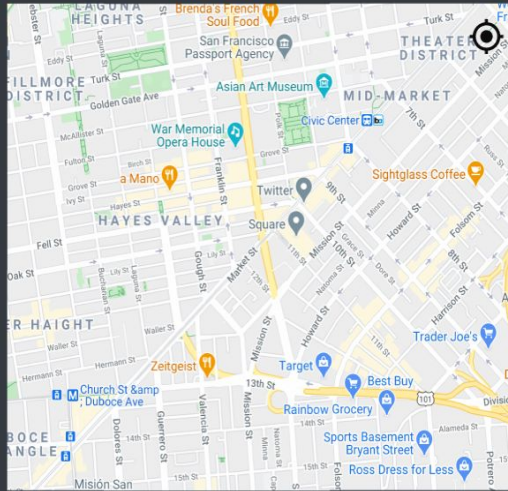
Time

Start Time

Duration

Duration

Search



LOGO



451 parkings

Opp. jahangirpura petrol pump, jahangirpura, surat.

Number of slots available - 45

24x7 available

Charges - Rs. 50/- onwards

Know more &gt;&gt;



451 parkings

Opp. jahangirpura petrol pump, jahangirpura, surat.

Number of slots available - 45

24x7 available

Charges - Rs. 50/- onwards

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Know more &gt;&gt;



Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged.

**Address:** Opp. jahangirpura petrol pump, jahangirpura, surat.

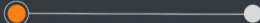
**Available slots :** 4 wheelers - 250  
2 wheelers - 1

**Charges :** 4 wheelers - Rs. 100/-  
2 wheelers - Rs. 50/-

Book Now

# Frontend Progress

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### PERSONAL DETAILS

**NAME**  
Enter Name

**Contact Number**  
Enter number


**VEHICLE No.**  
Enter number

☐ Save Information For Future.

**NAME**  
Enter Name

Select vehicle type ▼

**Order Summary**

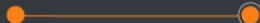
 **Parking Details**

Date : dd/mm/yyyy  
Time Slot :  
Amount :  
Price  
Charges  
Tax  
Total

**Next**

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### PAYMENT DETAILS


**NAME**  
Enter Name

**Credit Card Number**  
Enter number

**Expiry Date**  
mm/yyyy

**CVV**

☐ Save Information For Future.

 **Parking Details**


Date : dd/mm/yyyy  
Time Slot :  
Amount :  
Price  
Charges  
Tax  
Total


**Confirm**

[Terms & Conditions](#)


# Frontend Progress

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 **Order Completed**

**Order Summary**

**Parking Details**

Date : dd/mm/yyyy

Time Slot :


**Amount :**

Price


Charges

Tax

Total



[Download Receipt](#)

 **Order Receipt**

**PERSONAL DETAILS**

**NAME**  
Enter Name

**NAME**  
Enter Name


**Contact Number**  
Enter number

Select vehicle type

**VEHICLE No.**  
Enter number

**PAYMENT DETAILS**


**NAME**  
Enter Name

**Credit Card Number**  
Enter number 

**Expiry Date**  
mm/yyyy

**CVV**

**Order Summary**

**Parking Details**

Date : dd/mm/yyyy

Time Slot :


**Amount :**

Price

Charges

Tax

Total



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[Contact](#)

## Backend Progress

- ❑ Register, Login and Logout authentication with the help of JWT and passport,google-oauth20.
- ❑ The parking owner can add parking location on map.
- ❑ Users can search parking location on map and see their current location on map.
- ❑ User can book slot for start time and duration on the slots which are not previously booked.

## What are we planning to do more?

- ❑ To make the web application more user friendly we can add the review and rating options for the each parking slots so that the user can get the better idea for the same.
- ❑ We can also provide user guidance in the menu page to give an idea about the working of the application.
- ❑ The parking owner will be allowed to view the customer stats and also the reviews provided by them.

**THANK YOU!**