

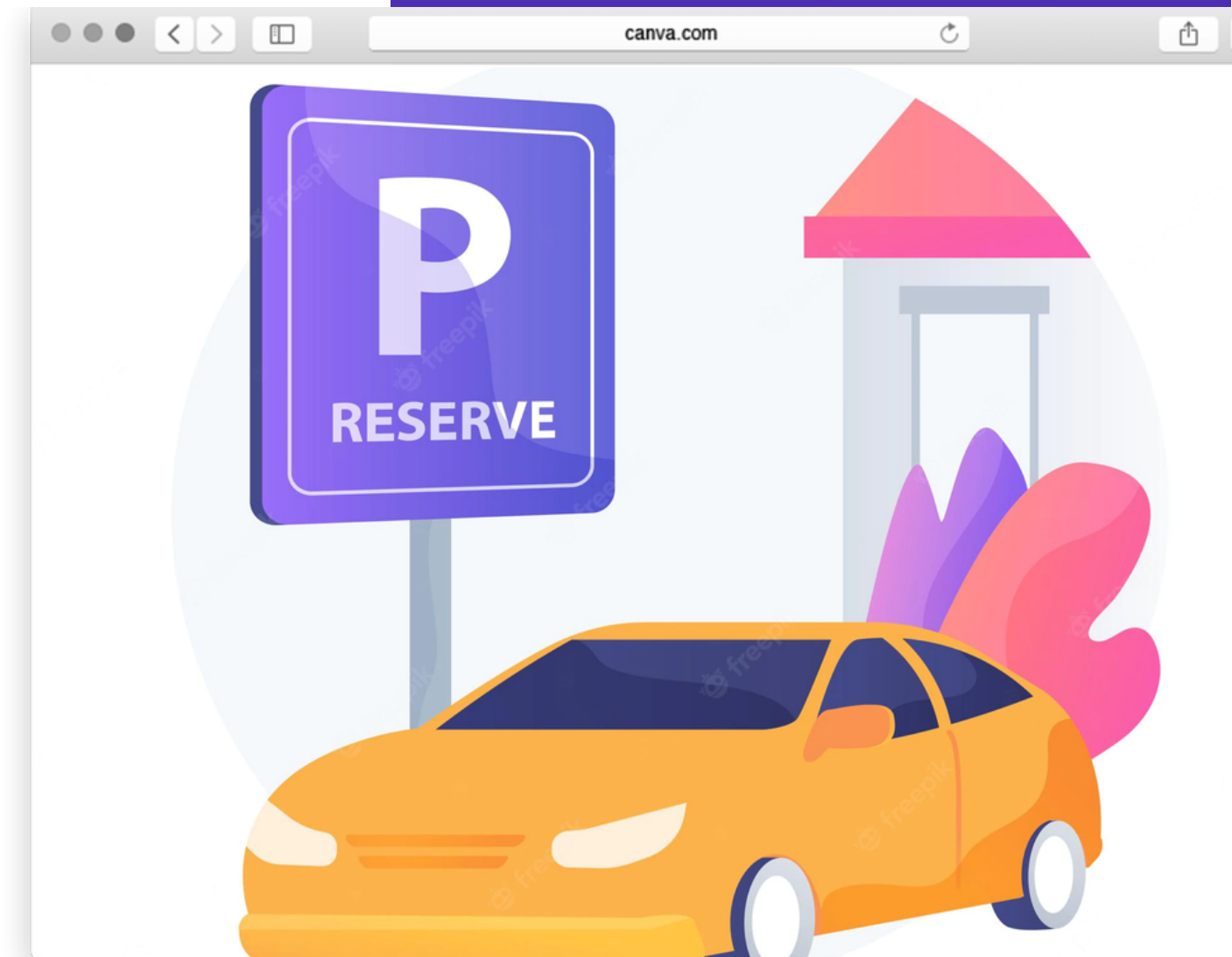


Book My Spot

Parking space management you have never imagined before

Team Name: sudo_su

Team Nomenclature: HSB7_PS_4



Meet the Team

Alok Joshi

Team Lead

Adity Krudunkar

Backend Developer

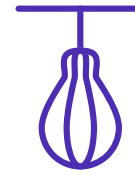
Abhinav Belhekar

Frontend Developer

Problem Statement

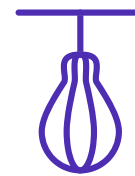
Parking vehicles is a big issue nowadays. To resolve this problem, develop an Application for Smart Parking (in software companies, shopping malls, etc.)

This mobile app should show the layout of the parking spaces and the availability of parking spots to help manage the parking efficiently



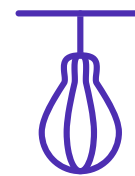
Problem 1

Finding a nearby available parking spot immediately without time delay and headache



Problem 2

Advance reservation of parking spots is difficult



Problem 3

The realtime changes may result in inefficient resource usage

Tech Stack

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Flutter

FRONTEND

A large purple circle containing the text "FastAPI" in white text.

FastAPI

A large purple circle containing the text "SQL, SQLAlchemy" in white text, with "SQL," on the top line and "SQLAlchemy" on the bottom line.

**SQL,
SQLAlchemy**

BACKEND

A large purple circle containing the word "Azure" in white text.

Azure

DEPLOYMENT

Implementation Details

We have created a platform where people will get the parking spot automatically without requiring them to physically look for one, with a robust backend written in FAST API our solution is easy to implement.

BookMySpot Application

- Facilitate the realtime layout of parking location
- Scheduling of immediate and advance reservations for parking spots
- Uses Material UI to give asthetic looks

FAST API Backend

- Hosted on Azure and made using Fast API
- authentication service & user management
- Parking Spot Reservation

Day 1 Progress

- Designed the Database and the UI Designs
- Learnt Deployment on Azure with Azure App Services
- Learnt SQLAlchemy for fast and time effective ways to create, update, and design databases.
- Implemented automation scripts for database migrations.
- Finalised the endpoints for the API Server.
- Deployed the MYSQL Server on Azure

Day 2 Progress

- **Experimental Slot booking algorithm implemented**
- **Successfully tested and integrated the login and registration Web APIs with the mobile application**
- **Successfully tested and integrated the Web APIs to get User**
- **Successfully tested and partially integrated the parking slot booking web APIs.**

Thanks