

ParkSmart User Manual



About ParkSmart

ParkSmart is an innovative parking management system designed to alleviate the challenges drivers and parking lot owners face in urban environments. The project focuses on providing real-time information on parking availability, payment options, and dynamic fee adjustments based on events and holidays. The system aims to streamline the parking process, reduce traffic congestion, and enhance the efficiency of urban mobility. With the ability to sign in and remember your information to expedite the parking process. ParkSmart, where parking meets precision, making every spot count.

How to install and use software

Instal PyCharm (Windows/Mac/Linux):

1. At: <https://www.jetbrains.com/pycharm/download/?section=windows>

Downloading Project (Windows/Mac/Linux):

1. This command in terminal: git clone <https://github.com/Sanmeet-EWU/github-teams-project-bid-boolean-bros.git>

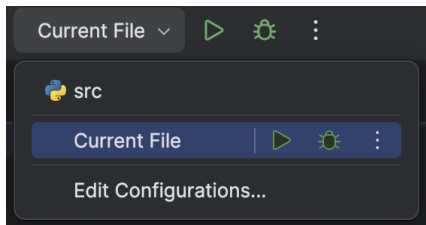
How to run Windows/Mac/Linux:

1. Open PyCharm.
2. Click the **Open** button.
3. Find the clone **github-teams-project-bid-boolean-bros** and open the **src** folder.
4. Click **Trust Project**.
5. Install Flask, SQLAlchemy, and Flask-SQLAlchemy:

- a. Click on **Python Packages** at the bottom left corner



- b. In the search type: flask
 - c. Click on the package and click **Install**
 - d. In the search type: SQLAlchemy
 - e. Click on the package and click **Install**
 - f. In the search type: Flask-SQLAlchemy
 - g. Click on the package and click **Install**
6. Change the run file to the **Current File**.



7. Open **app.py** on the left side in the project overview.
8. Now click the run button at the top (Green) to start the website locally.

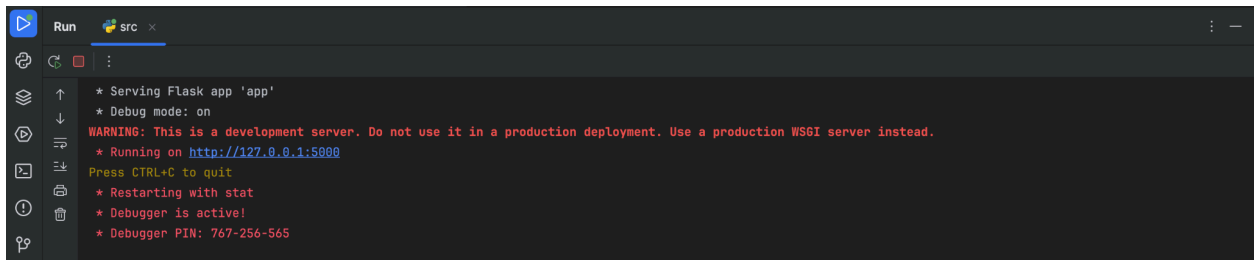
How to test Windows/Mac/Linux:

1. Right-click on **test_app.py** and click **Run**.
2. This will run 20 tests on the website.

How to access the website and Description of the pages

How to access the website:

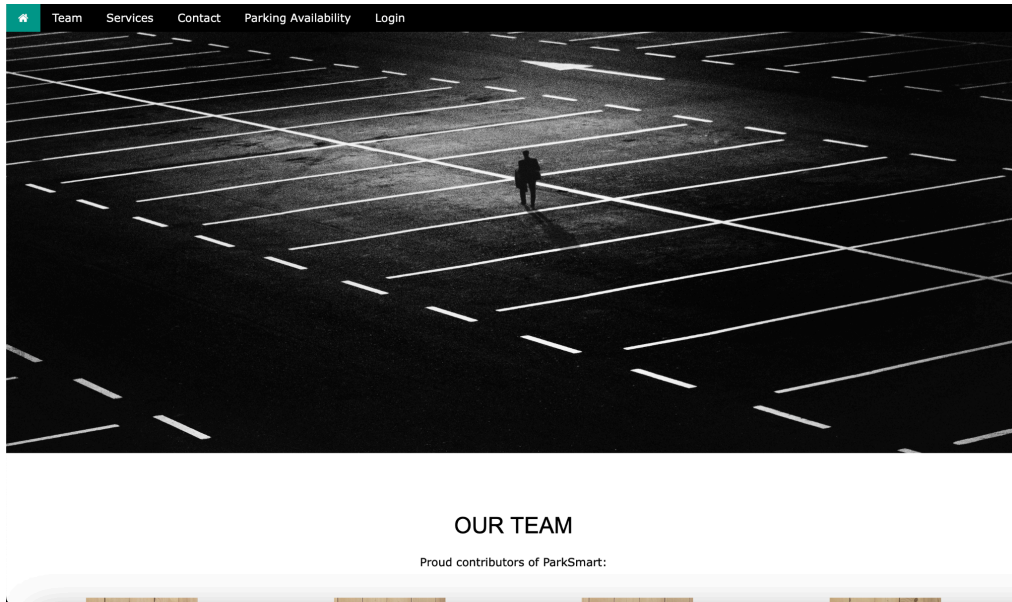
1. After running **app.py**, at the bottom of PyCharm, you see



2. Go to any internet browser of your choice and in the search bar input the link in blue. (In our case it is <http://127.0.0.1:5000>)
3. Now you could be at the Home page of ParkSmart.

Description of the pages:

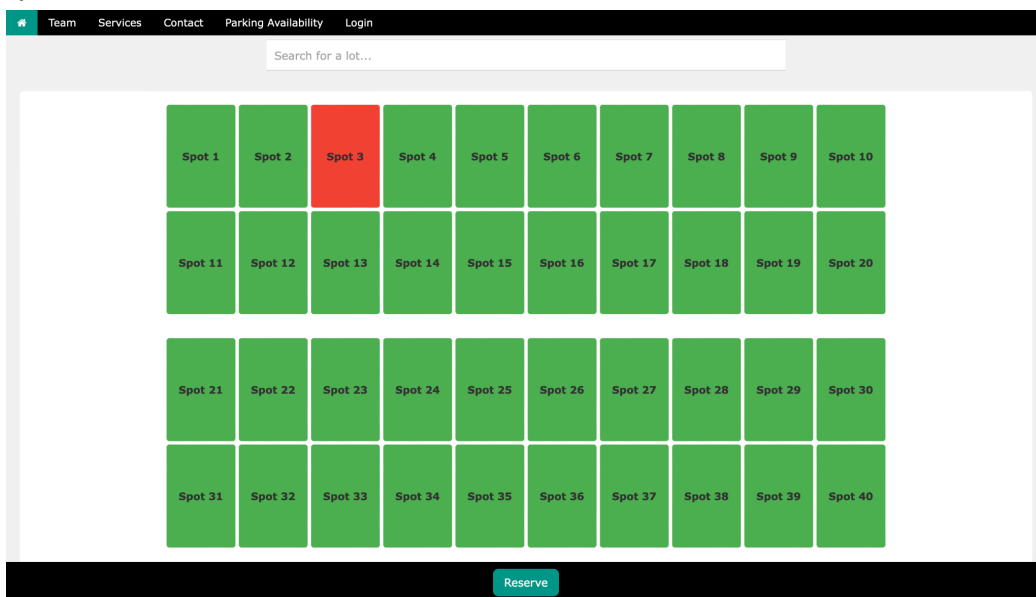
1. The Home page will have our team, steps to take, and how to contact us.



2. At the top, you have a menu. Team, Services, and Contact will take you down the Home page.



3. Parking Availability will take you to the packing spot choosing page. Here you can choose a spot and click Reserve to continue to payment. After payment, the spot will be reserved.



4. Login will take you to a login page where you can register yourself and your vehicle.

[Home](#) [Team](#) [Services](#) [Contact](#) [Parking Availability](#) [Login](#)

Login to ParkSmart

Login

[Don't have an account? Register here](#)

- After logging in you can click on your name and change the information about yourself.
- All functionality is the same after logging in.
- Once you make an account and save some spots you can look into the database to see if it actually there.
 - To look at the database, in the URL write:

<http://127.0.0.1:5000/database.html>

Database Tables

Reservations

ReservationID	SpotID	ParkingLotID	VehicleID	StartTime	EndTime
1	3	1	1	2024-06-11 22:44:11	2024-06-11 23:14:11

ParkingLot

ParkingLotID	OwnerID	Name	Location	Capacity
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ParkingSpot

SpotID	ParkingLotID	SpotNumber	IsAvailable
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Vehicle

VehicleID	UserID	LicensePlate	VehicleType	VehicleColor
1	None	I	Truck	White

RegisteredUser

UserID	Username	Email	Password
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Contact Information

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