

## Project Design Phase-II

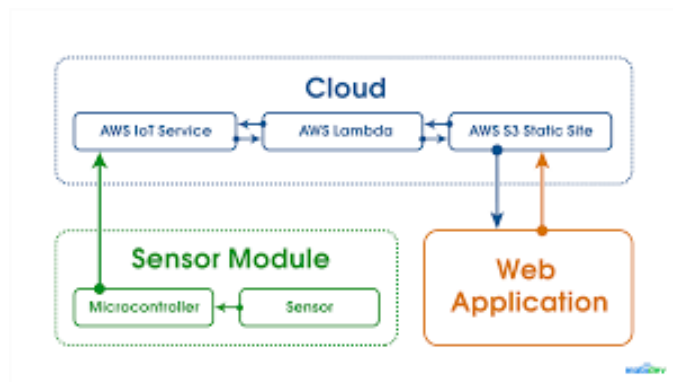
### Data Flow Diagram & User Stories

Date	23 October 2023
Team ID	Team-592107
Project Name	Project - <b>AI Enable Car Parking Using OpenCV</b>
Maximum Marks	4 Marks

#### Data Flow Diagrams:

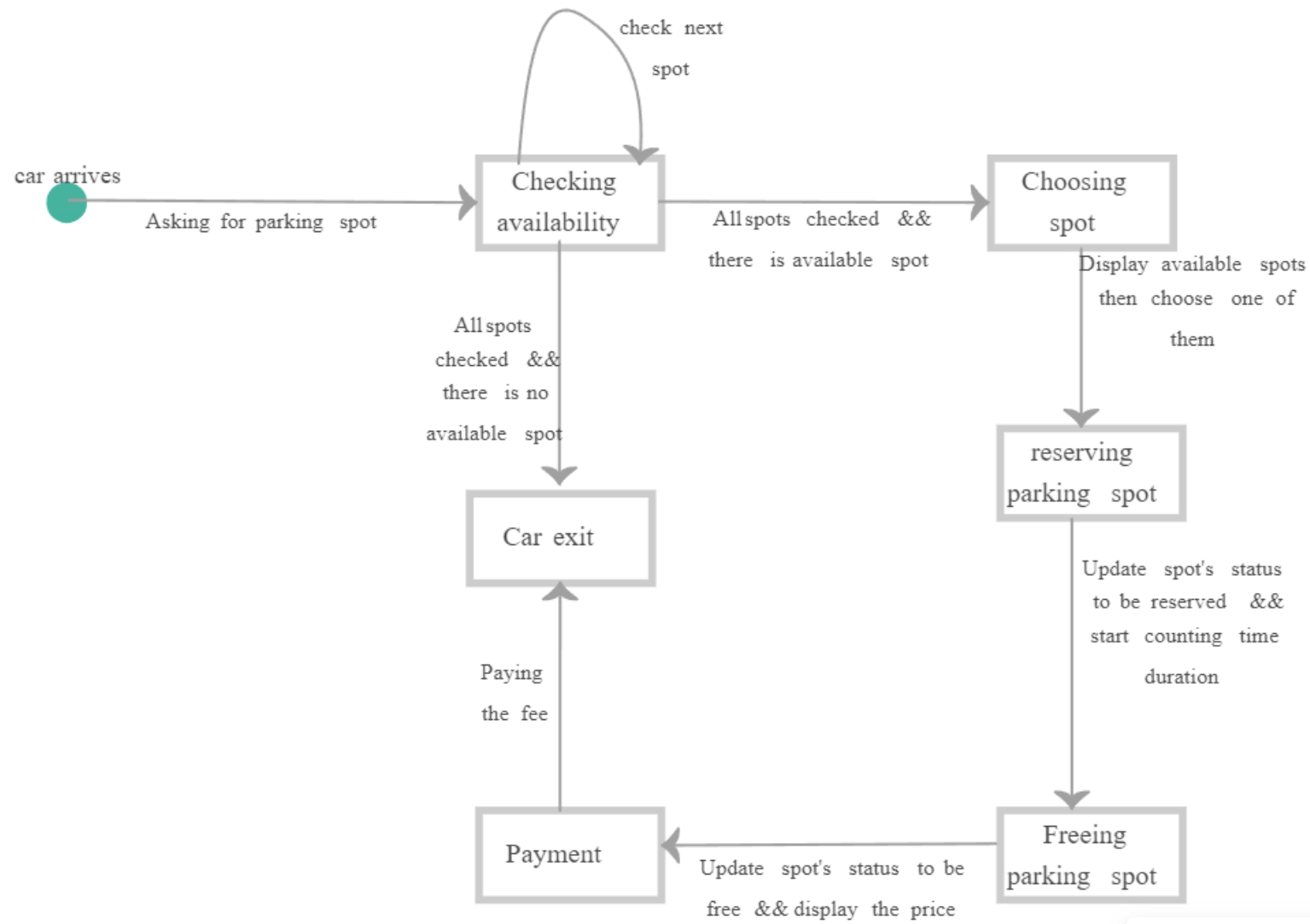
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Below figure represents the work flow:



Cloud based IoT services provide the pathway to the sensor modules containing microcontrollers and sensors which does the hardware part and which is accessed by the user through the web application that is integrated with the S3 static site for ensuring the smooth functionality of the smart parking application

## DATA FLOW



## User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
Customer(web user)		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-1
	Dashboard	USN-6	As a user now I can access the application for booking a parking slot		High	
		USN-7	User is needed to fill out the vehicle details	Vehicle details are cross matched with RTO dataset	High	Sprint-1
		USN-8	At the time of parking the timings are noted of entry and exit		High	
		USN-9	Cost details for the parking according to the timings are provided in the dashboard	Timings validated	High	Sprint-2
		USN-10	According to the tariff the rates are calculated upon the exit of the vehicle		High	
		USN-11	Payment options are displayed in the user account section		High	Sprint-2
		USN-12	Upon successful payment the due is cleared and is ready for go	Payment status	High	