

HIGH LEVEL REQUIREMENTS **IPark**

Project Identification

Project:	IPark Platform
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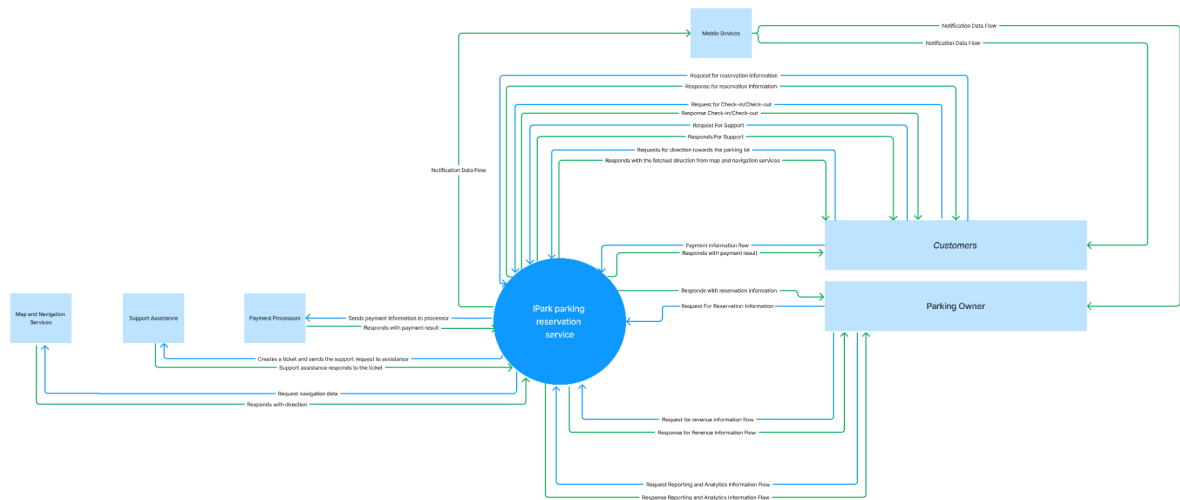
Revision History

Version Number	Revision Date	Summary of Changes	Modified by
1.0	Sep 29, 2023	Initial release	All members
1.1	Nov 3, 2023	Modified release based on updated scope of project	All members

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1. Business Context Diagram



Requirement Scope Area	Description
Parking reservation service	Develop a comprehensive parking solution to streamline parking processes, enhance customer satisfaction, and optimize parking operations for both customers and parking owners.

External Entity	Description
Customers	Individuals who will use the parking solution to reserve spots, check in, and check out of parking facilities.
Parking Owners	Individuals or entities who own the parking facilities and will use the dashboard to manage their parking spots, monitor revenue, and analyze customer behavior.
Mobile Devices	Devices like smartphones or tablets that customers will use to access the mobile application of the parking solution.
Map and Navigation Services	External platforms that provide mapping and navigation services which could be integrated to help customers find parking facilities.

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Information Flows	Description
Reservation Information Flow	Customers can reserve parking spots 24 hours in advance through the platform. This information flow includes the reservation details, such as the parking spot location, reservation time, and payment information, flowing from the customer to the system and the parking owner.
Check-in and Check-out Information Flow	Customers check in and check out of parking facilities using the platform. This information flow includes the check-in and check-out times, parking spot number, and payment information flowing between the customer, the system, and the parking owner.
Spot Availability Information Flow	Parking owners manage and allocate parking spots through the platform. This information flow includes the spot allocation data flowing between the parking owner and the system.
Reporting and Analytics Information Flow:	Detailed reports and analytics provide valuable insights to parking owners. This information flow includes the analytics and reporting data flowing from the system to the parking owner.
Notification Information Flow	Notifications and updates regarding parking reservations, availability, or other relevant information are sent to customers. This information flow includes notification data flowing from the system to the customer's mobile device, and owner's dashboard.
Payment Processing Information Flow	Payment information is processed to complete reservations or pay for parking usage. This information flow includes payment data flowing between the customer, the system, and the payment processor.

2. Requirements Scope Statements

HLR#	Description	Priority (H, M, L)
HLR01	Customers must be able to Check-in and Check-out using their phones.	High Priority

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HLR02	Customers must be able to reserve their parking spot 24-hour in advance.	High Priority
HLR03	Customers must be able to give feedback and rates for different parking locations using their phones.	Medium Priority
HLR04	Customers must have access to the scopes availability information.	High Priority
HLR05	Parking owners must receive comprehensive reports on their dashboard.	High Priority
HLR06	Customer must receive a reminder notifications regarding their reservation.	Medium Priority
HLR07	Parking owners must be able to see parking utilization for each spot.	High Priority

3. High Level Business Requirements Sign-Off

The undersigned acknowledge their agreement with the contents of Version 1.1 of the [High-Level Requirements](#) document for [IPark](#).

Name	Project Role and Functional Area	Date Signed
Mohammadali Talaei	Frontend developer, Backend developer, Devops	Nov 03, 2023
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