Project Plan

IPark

T-10

Primary Instructor	Anjana Shah
Team Member	Negin Heidari
Team Member	Mohammadali Talaei
Team Member	Sheida Moazeni
Team Member	Mahshad Eilanlou
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Document Revision History

Revision #	Date
1.1	06/10/2023
1.2	05/11/2023
2.0	02/02/2024

Table of Contents1. Executive Summary

Objective	The aim of the IPark project is to develop a forward-thinking parking reservation service, distinguished by its reliance on a software-centric approach that eliminates the need for traditional hardware systems. The service is designed to facilitate prompt and advanced parking spot reservations through a user-friendly mobile and web interface. Prioritizing convenience, it allows users to choose parking spots based on location, time preferences, and other personal criteria. IPark's innovative strategy is set to redefine urban parking management, rendering it more adaptable, centered on user needs, and financially advantageous for both users and providers.
Corporate Goals Addressed	1. **Customer Convenience:** By offering up-to-date availability information and simplified reservation management, the project prioritizes customer convenience, ensuring an effortless decision-making and booking process that heightens overall satisfaction. 2. **Leveraging Technology:** The incorporation of advanced features like sophisticated authentication processes and an intuitive UI/UX design underscores the commitment to leveraging technology for service enhancement and staying at the forefront of the parking solutions industry. 3. **Resource Optimization:** Enhancing the reservation process and maximizing parking space utility align with the aim of resource optimization, demonstrating the project's role in achieving more efficient urban space management. 4. **Focused Execution:** The project's clear boundaries help maintain a focused execution, ensuring resources are strategically allocated to fulfill precise objectives, which is crucial for streamlined project development and management. 5. **Elevating User Engagement:** With the integration of feedback mechanisms and profile management, the project directly feeds into efforts to enrich the user experience and nurture ongoing engagement. 6. **Operational Streamlining:** The system is designed to bolster operational efficiency through improved insights into space utilization and pricing strategies, contributing to smoother operational flow and cost-effectiveness. 7. **Revenue Maximization:** Incorporating seamless payment solutions and dynamic pricing structures, the project supports revenue maximization strategies by enabling flexible and responsive revenue management. 8. **Digital Advancement:** The project embodies the digital transformation ethos, redefining traditional parking management with a digital-centric solution that caters to a tech-savvy customer base.
Planned Start Date	15 September, 2023
Planned End Date	29 March, 2024

2. Project Approvers, Reviews and Distribution List

Approvers

Project Role	Name	E-mail	Date
Project Sponsors/Client	N/A	N/A	N/A
Product Owners and Stakeholders	Negin Heidari	negin.heidari@georgebrown.ca	05/10/2023
	Mohammadali Talaei	mohammadali.talaei@georgebrown.ca	05/10/2023
	Mahshad Eilanlou	mahshad.eilanlou@georgebrown.ca	05/10/2023
	Mahyar Ghasemi Khah	mahyar.ghasemikhah@georgebrown.ca	05/10/2023
	Sheida Moazeni	Sheida.Moazeni@georgebrown.ca	05/10/2023

Reviewers

Project Role	Name	E-mail	Date
Technical Leads or Architects	Mohammadali Talaei	mohammadali.talaei@georgebrown.ca	05/10/2023
	Mahyar Ghasemi Khah	mahyar.ghasemikhah@georgebrown.ca	05/10/2023
Quality Assurance (QA) Engineers	Mahshad Eilanlou	mahshad.eilanlou@georgebrown.ca	05/10/2023
UX/UI Reviewers	Negin Heidari	negin.heidari@georgebrown.ca	05/10/2023
	Sheida Moazeni	Sheida.Moazeni@georgebrown.ca	05/10/2023
Code Reviewers	Mohammadali Talaei	mohammadali.talaei@georgebrown.ca	05/10/2023
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Distribution List

Project Role	Name	E-mail	Date
Project Manager/Scrum Master	Mohammadali Talaei	mohammadali.talaei@georgebrown.ca	05/10/2023
Development Team	Mohammadali Talaei	mohammadali.talaei@georgebrown.ca	05/10/2023
	Negin Heidari	negin.heidari@georgebrown.ca	05/10/2023
	Mahyar Ghasemi Khah	mahyar.ghasemikhah@georgebrown.ca	05/10/2023
	Mahshad Eilanlou	mahshad.eilanlou@georgebrown.ca	05/10/2023
	Sheida Moazeni	Sheida.Moazeni@georgebrown.ca	05/10/2023
Business Analysts	Sheida Moazeni	Sheida.Moazeni@georgebrown.ca	05/10/2023
Operations/DevOps Team	Negin Heidari	negin.heidari@georgebrown.ca	05/10/2023
Support Team	Negin Heidari	negin.heidari@georgebrown.ca	05/10/2023
End Users	Anjana Shah	ashah@georgebrown.ca	05/10/2023

3. Scope

In Scope		Out of Scope
Mobile Application	**Web Application**	
Spot selection: The system provides users with continually updated status reports on available parking spots, ensuring that the information is as current and accurate as possible. This feature is essential for users to make informed parking decisions promptly and for the system to prevent overlapping reservations for the same parking spot.	**Development of Reservation Management:** A comprehensive system that allows users to reserve parking spots based on location, time, and preferences. This system should offer features like date and time selection, cancellations of reservations.	**Personalized User Experience:** The application learns from the user's behavior and preferences over time. It might suggest favorite or frequently visited parking spots, or even offer discounts based on user loyalty.
Feedback and Reporting: Provide an easy interface for users to submit feedback, report issues with parking spots, or even rate their parking experience. This can be invaluable for continuous improvement.	**Implementation of Secure User Authentication Processes:** Deploy robust authentication mechanisms like two-factor authentication, and encrypted passwords. This ensures only authorized users can access accounts, protecting user data and enhancing overall system security.	**Dynamic Pricing Integration:** Implement a dynamic pricing model that adjusts prices based on demand, time of day, or special events. For instance, prices might increase during peak hours or special events.
UI/UX: The UI/UX design should prioritize a seamless user experience, starting with an intuitive onboarding and signup process. The home screen prominently features a dynamic map showcasing real-time parking availability, complemented by a search bar and quick filters (filter by district, filter by available parkings, etc).	**Integration of Payment Gateways:** Seamlessly integrate multiple payment options, allowing users to transact using credit/debit cards. Ensure that transactions are encrypted and secure, with features like instant payment receipts and payment history logging.	**Physical Signage and Wayfinding:** While digital maps or directions can be provided within the application, physical signage, boards, or wayfinding installations in the parking area are not covered. Defining these out-of-scope features ensures that stakeholders have clear expectations about the software's capabilities and limitations, helping to streamline project management and avoid potential misunderstandings.
Integration of Payment Gateways: Seamlessly integrate multiple payment options, allowing users to transact using credit/debit cards. Ensure that transactions are encrypted and secure, with features like instant payment receipts and payment history logging.	**Updated Availability Information:** The system provides users with continually updated status reports on available parking spots, ensuring that the information is as current and accurate as possible. This feature is essential for users to make informed parking decisions promptly and for the system to prevent overlapping reservations for the same parking spot.	**Multi-language Support:** For broader reach, especially in multicultural cities or regions, the app can offer multiple language options, ensuring accessibility to a wider audience.

User Profile & Vehicle Management: Users can view and manage their personal data, vehicle details, and reservation history.	**Providing Insights into Parking Space Utilization:** For administrators or parking lot owners, offer a dashboard with analytics. This can show data like peak parking times, most preferred spots, revenue generated, and spot turnover rate. Such insights can be invaluable for optimizing operations and pricing.	**Environmental or Sustainability Assessments:** Assessing the environmental impact of parking facilities or ensuring they meet sustainability criteria is beyond the software's functionalities.
		Social Integration: Allow users to share their parking location with friends or family, especially useful in crowded event spaces or unfamiliar locations.

4. Deliverables

Deliverable	Description
The system provides users with continually updated status reports on available parking spots, ensuring that the information is as current and accurate as possible.	This feature will ensure that users can see up-to-the-minute parking spot statuses, preventing double bookings and enabling users to make informed decisions about where to park.
Create a comprehensive reservation management system for the web application with features like date and time selection, reservation cancellations, and location-based parking reservations.	This system will allow users to reserve parking spots according to their preferences and requirements, providing them with a seamless booking experience.
Implement robust user authentication mechanisms for the web application, and encrypted passwords.	This security feature will protect user data and ensure that only authorized users can access their accounts.
Seamlessly integrate multiple payment options, including credit/debit cards, with secure transactions, instant payment receipts, and payment history logging for the web application.	Users should be able to make payments conveniently and securely within the application.
Design a user-friendly UI/UX for the application with an intuitive onboarding process, easy to use for any user. The app offers an auto-complete search bar for the parking lot’s address.	Prioritize user experience through an attractive and user-friendly interface.The app features a streamlined auto-complete search bar designed to quickly suggest and fill in the parking lot's address, enhancing user experience by simplifying navigation and search efficiency.parking lot's address, enhancing user experience by simplifying navigation and search efficiency.

Create a dashboard on the web app for administrators and parking lot owners that offers insights into peak parking times, preferred spots, revenue generation, and spot turnover rates.	These insights will help optimize operations and pricing strategies.
Provide a user-friendly interface for feedback submission, issue reporting, and parking experience rating.	User feedback is crucial for continuous improvement and addressing issues promptly.
Develop a feature for the mobile application that allows users to view and manage their personal data, vehicle details.	This feature empowers users to have control over their information and vehicle details.

5. Assumptions

Assumptions for the Scope of iPark:

A1. Reservation Management System:
- Assumption: Users will have access to a stable internet connection or mobile network to make reservations through the iPark application.
- Rationale: The reservation system depends on online connectivity for users to access and book parking spots.

A2. Secure User Authentication Processes:
- Assumption: Users will be responsible for maintaining the security of their login credentials and devices used to access iPark.
- Rationale: Security mechanisms are most effective when users play an active role in safeguarding their accounts.

A3. Integration of Payment Gateways:
- Assumption: Third-party payment gateways will maintain their services and APIs without significant disruptions during the project.
- Rationale: The smooth functioning of payment processing depends on the reliability of external payment service providers.

A4. UI/UX Design:
- Assumption: Users will have a basic understanding of mobile application navigation and interface interaction.
- Rationale: The user-friendly design assumes a minimal level of user familiarity with mobile applications.

A5. Parking Space Utilization Insights:
- Assumption: Administrators and parking lot owners will have access to necessary data sources for generating utilization insights.
- Rationale: Parking space utilization insights require data and user interactions to be accurate and valuable.

A6. Feedback and Reporting:
- Assumption: Users will actively provide feedback and report issues through the iPark application.

- Rationale: The effectiveness of feedback and reporting features relies on user engagement and participation.

A7. User Profile Management:
- Assumption: Users will keep their personal and vehicle information up to date, and data will be stored.
- Rationale: User profiles management depends on accurate and current user data.

General Assumption for IPark:

B1. User Adoption and Engagement:
- Assumption: Users will readily adopt and engage with the IPark platform, making reservations, providing feedback, and using the mobile app frequently.
- Rationale: The success of the platform's objectives and alignment with corporate goals depends on active user participation.

B2. Technology Integration:
- Assumption: The integration of modern technologies will be technically feasible and will not encounter insurmountable technical challenges.
- Rationale: The project's focus on technology and innovation assumes that these technologies can be effectively implemented.

B3. Customer Satisfaction Metrics:
- Assumption: Metrics for measuring customer satisfaction, such as user ratings and feedback, will provide valuable insights for continuous improvement.
- Rationale: The project's alignment with the corporate goal of customer satisfaction assumes that these metrics will be reliable indicators.

B4. Operational Efficiency Improvements:
- Assumption: The implementation of operational features, including the parking owner dashboard, will lead to improvements in parking space management and overall operational efficiency.
- Rationale: The project's contribution to operational efficiency aligns with corporate objectives.

B4. Stakeholder Engagement and Feedback:
- Assumption: Stakeholders, including customers and business partners, will actively engage with the project and provide valuable feedback.
- Rationale: The project's success in maintaining strong relationships with stakeholders relies on their active participation.

B5. Continuous Improvement Culture:
- Assumption: The project's features for gathering user feedback and enabling iterative updates will foster a culture of continuous improvement and adaptability.
- Rationale: The project embodies the corporate ethos of continuous improvement, assuming that these features will drive ongoing enhancements.

6. Dependencies

Internal Dependencies:	**External Dependencies:**
1. Resource Availability: The project's progress is dependent on the availability of resources, including the team's time and effort, as well as access to necessary development tools and platforms.	1. User Adoption: The success of the project depends on users' willingness to adopt the platform for parking reservations and management. User acquisition and retention are external dependencies.
2. Team Collaboration: Successful collaboration among team members is essential for achieving project milestones. Effective communication and cooperation are internal dependencies that must be maintained.	2. Stakeholder Engagement: External stakeholders, such as parking spot owners and facilities, must engage with the platform for revenue management. Their cooperation and adoption of the platform are external dependencies.
3. Technical Expertise: The team's technical expertise in software development, database management, and user interface design is an internal dependency for the project's success.	4. Regulatory Compliance: The project relies on compliance with regulations related to parking management and digital platforms in Toronto.
4. Mobile Device Compatibility: The project depends on the compatibility of the mobile app with various devices and operating systems used by potential users.	5. Market Conditions: External market conditions and competition can impact the project's success. Monitoring and adapting to market dynamics are external dependencies.
	6. Payment Gateway Providers: The integration of secure payment gateways is an external dependency that relies on third-party providers' services and cooperation.
	7. Partnerships and Collaborations: Establishing partnerships or collaborations with parking facilities and owners is essential for onboarding their spots onto the platform.
	8. Academic Support: External dependencies include the support and flexibility provided by academic advisors.

7. Risk Management

Potential Risk	Severity (H/M/L)	Likelihood (H/M/L)	Management Strategy
Dependency on third-party libraries: When an application relies on external services or libraries, there's an inherent risk of these services becoming unavailable, changing their API, or experiencing other disruptions.	High	Medium	Regularly monitor the health and updates of third-party services. Maintain fallback mechanisms or backup services to ensure functionality if the primary service fails. Stay informed about the roadmap and updates of third-party providers to anticipate and prepare for changes.
Mismatch in User Expectations and UI/UX Design: Users might find the interface unintuitive, confusing, or not meeting their needs. A poorly designed UI/UX can lead to user frustration, decreased engagement, or even users abandoning the application.	High	Medium	**User Feedback**: Proactively gather feedback from users to understand their needs and pain points. Use tools like surveys, feedback forms, or direct interactions to collect this information. **Iterative Design**: Based on the feedback received, make periodic adjustments to the UI/UX. An iterative design process allows for continuous improvement based on real user experiences. **Beta Testing**: Before rolling out major changes or launching a new feature, consider releasing it to a smaller group of beta testers. This helps in identifying potential issues or mismatches in expectations early on.
Delay in Academic Support or Approvals: Academic projects often rely on timely feedback, support, or approvals from academic advisors or committees. Delays in receiving this support can stall progress, potentially leading to	Medium	Low	**Regular Communication**: Establish a consistent communication schedule with academic advisors. This can be in the form of weekly or bi-weekly meetings, email updates, or periodic reports. **Scheduled Checkpoints**: Define clear milestones or checkpoints throughout the project. These serve as predefined

missed deadlines or misalignment with academic standards.			moments to gather feedback, ensuring that the project stays on track and aligns with academic expectations. **Early Feedback**: Instead of waiting for major milestones, seek feedback early and often. Sharing preliminary ideas or drafts can help identify potential issues or areas of concern before they become significant problems. **Documentation**: Maintain thorough documentation of all interactions, feedback, and approvals. This not only serves as a reference but can also be useful in case of any discrepancies or disputes.
Integration Issues with Payment Gateways: Integrating with payment gateways is a crucial aspect of many applications, especially those that handle transactions. Issues or disruptions in this integration can lead to transaction failures, security vulnerabilities, or negative user experiences, potentially affecting the reputation and trustworthiness of the application.	High	Low	**Choose Reliable Gateways:** Opt for payment gateways that are well-documented, widely adopted, and have a reputation for reliability and support. Using established gateways reduces the risk of unforeseen integration issues. **Backup Gateways**: Always have an alternative payment gateway integrated. In case the primary gateway faces disruptions, the backup can ensure continued service, minimizing disruptions for users. **Regular Testing**: Periodically test the payment integration, especially after updates to either the application or the payment gateway. This helps in identifying and rectifying issues before they affect end users. **Clear Error Handling**: Implement clear error messages and user flows for transaction failures. This ensures users

			are informed about any issues and guided on the next steps. **Stay Updated**: Stay informed about any updates, changes, or maintenance schedules related to the payment gateway. This helps in preparing for potential disruptions or changes in integration requirements.
Security Vulnerabilities in Authentication: Authentication is the first line of defense against unauthorized access. Vulnerabilities or weaknesses in this process can expose sensitive user data, result in unauthorized access, or compromise the integrity of the system, leading to potential breaches, loss of user trust, and legal consequences.	High	Low	**Security Audits**: Conduct regular security audits to identify potential vulnerabilities in the authentication process. Use trusted third-party services or in-house security experts to perform these audits. **Stay Updated**: Authentication best practices evolve over time as new threats emerge and technologies advance. It's essential to stay informed about the latest best practices and recommendations in the field of security. **Multi-Factor Authentication (MFA)**: Implement MFA as an additional layer of security. This requires users to provide two or more verification factors to gain access, making it harder for unauthorized users to breach the system. **Encrypted Data Transmission:** Ensure that all data, especially during the login process, is encrypted during transmission. Using protocols like HTTPS is essential to prevent data interception.
Inaccurate or Outdated Parking Data: Reliable parking data is crucial for the functionality and user trustworthiness of a parking reservation system. Inaccurate or outdated information can lead to overbookings, user	High	High	**Data Validation Checks**: Implement automated validation checks to ensure the integrity of the parking data. For instance, if a parking spot is shown as available but has been booked multiple times in a short span, it might indicate an error.

dissatisfaction, and loss of revenue. Ensuring the accuracy and timeliness of this data is paramount for smooth operations and positive user experiences.			**Collaboration with Data Providers:** Establish a strong communication channel with parking data providers. Regularly review and validate data, addressing discrepancies promptly. **Feedback Mechanism**: Allow users to report discrepancies they notice, such as a spot shown as available but is physically occupied. This crowdsourced feedback can act as an additional layer of data validation.
Technical Issues in Offline Mode Functionality: The ability to operate seamlessly in offline mode is a significant value proposition for any mobile application, especially in areas with intermittent network connectivity. Technical glitches or inadequacies in offline mode can hinder user experience, leading to dissatisfaction and potential loss of users.	Medium	Medium	**Routine Testing**: Conduct regular and rigorous testing of the offline mode features across various devices and operating systems. This ensures that any glitches, inconsistencies, or issues are identified and addressed promptly. **User Feedback Collection**: Implement a mechanism to collect user feedback specifically related to the offline mode experience. This could be in the form of surveys, feedback prompts, or direct user outreach. **Data Sync Mechanisms:** Ensure that there's a robust mechanism for data synchronization once the device regains connectivity. This ensures that any actions taken or data input in offline mode is seamlessly integrated into the system without data loss or discrepancies. **Clear User Indication**: Clearly indicate to users when the application is operating in offline mode, so they are aware of the limitations and know what to expect.

8. Communication

Reporting

The following reports will be produced;

Daily Stand-up/Scrum Report: A brief summary of what each team member did the previous day, what they plan to do today, and any blockers they're facing. This is typical in Agile methodologies and ensures everyone is aligned.	Entire Project Team	Daily
Progress Summary: Purpose: To provide stakeholders with a concise overview of the project's current state, achievements, and any deviations from the planned trajectory. **Contents**: Milestones Achieved: A list of significant tasks or features that have been completed during the week. Tasks In Progress: An update on ongoing tasks and expected completion dates. Upcoming Tasks: A preview of tasks or features scheduled for the upcoming week. Deviations from Plan: Any discrepancies between the planned schedule or features and the actual progress, with reasons for the deviations. Key Performance Indicators (KPIs): Metrics that provide insights into the	Entire Project Team	Monthly

project's health, like completion percentage, budget spent, etc.		
Sprint Review: Purpose: To assess the work done during a specific sprint, ensuring that it aligns with the project's objectives and identifying areas for improvement. **Contents:** Completed User Stories/Tasks: A detailed list of all the user stories or tasks that were planned for the sprint and have been completed. Incomplete User Stories/Tasks: Items that were not finished and reasons why. Product Demonstrations: Showcase of any new features or functionalities developed during the sprint. Stakeholder Feedback: Feedback or comments from stakeholders based on the demonstrated features. Improvements & Lessons Learned: Any insights gained during the sprint that can help improve future sprints.	Entire Project Team	Weekly
Risk and Issue Log: Purpose: To keep track of potential risks and issues encountered during the	Entire Project Team	Continuous (As Required)

project, ensuring proactive management and mitigation. **Contents:** Identified Risks: A list of potential risks that might impact the project, their severity, and likelihood. Trigger Events: Events or conditions that would convert a risk into an issue. Mitigation Strategies: Preemptive actions planned or taken to reduce the impact or probability of each risk. Issues Encountered: A log of problems or challenges that have occurred, their impact, and the steps taken to resolve them. Current Status: An update on the status of each risk and issue (open, in-progress, resolved).		
Feedback Summary: Purpose: To collate and present feedback from various sources, ensuring that it's addressed in future development cycles. **Contents:** Source of Feedback: Identification of where the feedback is coming from - could be internal teams, beta testers, stakeholders, etc. Feedback Details: Specific comments, suggestions, or criticisms received. Action Taken: Any immediate actions taken in response to the feedback.	Entire Project Team	Monthly

Future Considerations: Feedback points that might not be addressed immediately but are noted for future iterations or phases of the project. Feedback Trends: If any patterns or recurring themes are observed in the feedback, they're highlighted for special attention.		

Meetings

The following meetings/communication will be established;

Meeting	Purpose	Frequency	Attendees
Daily Stand-up (or Daily Scrum):	To discuss what was accomplished the previous day, what's on the agenda for the current day, and identify any obstacles or blockers.	Daily	Entire Project Team, Project Manager
Sprint Planning	To decide which items from the product backlog will be tackled in the upcoming sprint and to create a sprint goal.	Weekly (At the beginning of each sprint)	Entire Project Team, Project Manager
Sprint Review	To demonstrate the work completed during the sprint to stakeholders and gather feedback.	Weekly (At the ending of each sprint)	Entire Project Team, Project Manager
Backlog Refinement	To review items on the product backlog, ensuring they are appropriately prioritized and detailed	Once or twice during a sprint, or as needed.	Entire Project Team, Project Manager

9. Task Listing (WBS- Work Breakdown Structure)

The following resource proposal template summarizes the resource hours committed to this project, upon final approval of this document.
write reference in dependency.

Reference	Tasks	Duration	Dependency
1	**Initiation**		

1.1	Project Initiation	1 week	None
1.2	Define Project Scope and Objectives	1 week	Project Initiation (1.1)
1.3	Identify Stakeholders and Roles	1 week	Define Project Scope (1.2)
2	**Planning and design**		
2.1	Research and Planning	3 days	Completion of initiation (1)
2.2	Market Research and User Needs	2 days	Research and planning (2.1)
2.3	Technical Feasibility Assessment	2 days	Market Research and User Needs (2.2)
2.4	Resource Planning and Procurement	2 days	Technical Feasibility Assessment (2.3)
2.5	UI/UX Design and Prototyping	1 week	Resource Planning and Procurement (2.4)
2.6	Database Design and Implementation	5 days	UI/UX Design and Prototyping (2.5)
3	**Execution, Testing and Deployment**	Scrum Methodology	**Completion Planning and design**
3.1	Mobile and Web App Deployment	Ongoing	Previous Phase
3.2	Test Planning and Test Case Dev.	Ongoing	Previous Phase
3.3	Testing and Quality Assurance	Ongoing	Previous Phase
3.4	Functional Testing	Ongoing	Previous Phase
3.5	User Acceptance Testing (UAT)	Ongoing	Previous Phase
3.6	Server Setup and Configuration	Ongoing	Previous Phase
3.7	Deployment and Launch	Ongoing	Previous Phase
3.8	Documentation and Knowledge Transfer	Ongoing	Previous Phase
3.9	User Support and Issue Resolution	Ongoing	Previous Phase

3.10	Performance Monitoring and Optimize	Ongoing	Previous Phase
4	**Evaluation**		
4.1	User Manuals and Guides	3 days	Completion of execution, testing and deployment (3)
4.2	Knowledge Sharing Sessions	3 days	User Manuals and Guides (4.1)
4.3	Final Project Report	1 day	Project Review and Closure (4.2)

10. Gantt Chart

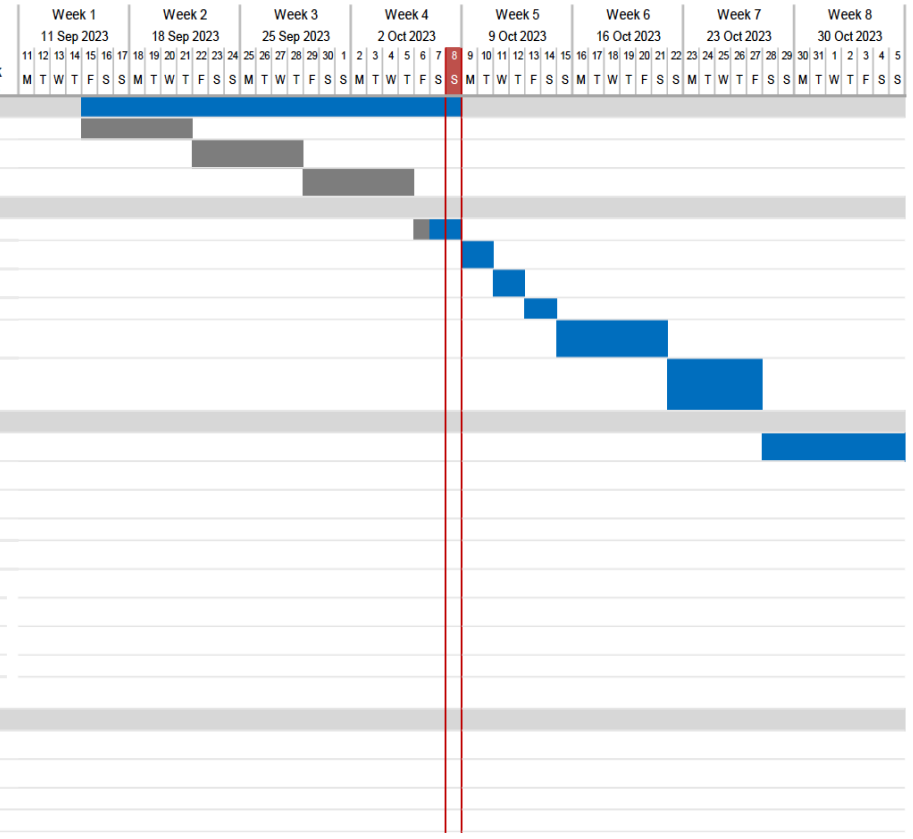
Create a detailed Gantt Chart from your Task Listing(Use any software tool and paste the image or upload as a separate file that can be opened as pdf/doc/xls)

IPark Project Schedule

IPark

Project Start Date: 9/15/2023 (Friday) | Project Lead: IPark Team | Display Week: 1

WBS	TASK	LEAD	START	END	DAYS	% DONE	WORK DAYS
1	**Initiation**		Fri 9/15/23	Sun 10/08/23	24		16
1.1	Project Initiation	All Team Members	Fri 9/15/23	Thu 9/21/23	7	100%	7
1.2	Define Project Scope and Objectives	All Team Members	Fri 9/22/23	Thu 9/28/23	7	100%	7
1.3	Identify Stakeholders and Roles	All Team Members	Fri 9/29/23	Thu 10/05/23	7	100%	7
2	**Planning and design**			-			-
2.1	Research and Planning	All Team Members	Fri 10/06/23	Sun 10/08/23	3	40%	3
2.2	Market Research and User Needs	All Team Members	Mon 10/09/23	Tue 10/10/23	2	0%	2
2.3	Technical Feasibility Assessment	All Team Members	Wed 10/11/23	Thu 10/12/23	2	0%	2
2.4	Resource Planning and Procurement	All Team Members	Fri 10/13/23	Sat 10/14/23	2	0%	2
2.5	UI/UX Design and Prototyping	Negin Heidari, Sheida Moazeni	Sun 10/15/23	Sat 10/21/23	7	0%	7
2.6	Database Design and Implementation	Mahyar Ghasemi Khah, Mohammadali talaei	Sun 10/22/23	Fri 10/27/23	6	0%	6
3	**Execution, Testing and Deployment (Scrum)**			-			-
3.1	Mobile and Web App Deployment	All Team Members	Sat 10/28/23	Ongoing	0	0%	
3.2	Test Planning and Test Case Dev.	All Team Members	Ongoing	Ongoing	0	0%	
3.3	Testing and Quality Assurance	All Team Members	Ongoing	Ongoing	0	0%	
3.4	Functional Testing	All Team Members	Ongoing	Ongoing	0	0%	
3.5	User Acceptance Testing (UAT)	All Team Members	Ongoing	Ongoing	0	0%	
3.6	Server Setup and Configuration	All Team Members	Ongoing	Ongoing	0	0%	
3.6	Deployment and Launch	Negin Heidari, Sheida Moazeni	Ongoing	Ongoing	0	0%	
3.6	Documentation and Knowledge Transfer	All Team Members	Ongoing	Ongoing	0	0%	
3.6	User Support and Issue Resolution	All Team Members	Ongoing	Ongoing	0	0%	
3.6	Performance Monitoring and Optimize	All Team Members	Ongoing	Fri 3/24/23	0	0%	
4	**Evaluation**			-			-
4.1	User Manuals and Guides	All Team Members	Sat 3/25/23	Mon 3/27/23	3	0%	3
4.2	Knowledge Sharing Sessions	All Team Members	Tue 3/28/23	Thu 3/30/23	3	0%	3
4.3	Final Project Report	All Team Members	Fri 3/29/24	Fri 3/29/24	1	0%	1



11. Milestones

Major Activity or Milestone	Estimated Milestone Target date	Owner/Reviewer Team Members
Initiation	2023-09-26	All the members
Planning and Design	2023-10-15	All the members
Execution, Testing and Deployment	2024-02-15	All the members
Evaluation	2024-03-15	All the members

12. RAM – Responsibility Assignment Matrix

	RAM DEFINITIONS
RESPONSIBLE	The person(s) who does the work. At least one person should be responsible for each work package.
ACCOUNTABLE	The person ultimately answerable for the successful completion of the work package. There should be only one person accountable for each task.
CONSULTED	Subject-matter experts whose advice is required.
INFORMATION	People who are informed of progress. For example, project admin, or PMO.

RESPONSIBILITY ASSIGNMENT MATRIX						
	Anjana Shah	Negin Heidari	Mahshad Eilanlou	Mohammadali Talaei	Mahyar Ghasmi Khah	Sheida Moazeni
Project Initiation	C	R	R	A	R	R
Define Project Scope and Objectives	I	A	R	C	R	R
Identify Stakeholders and Roles	C	R	A	R	R	R
Research and Planning	C	R	R	A	R	R
Market Research and User Needs	I	R	R	C	A	R
Technical Feasibility Assessment	C	R	R	R	R	A
Resource Planning and Procurement	I	R	R	C	A	R
UI/UX Design and Prototyping	I	R	C	A	C	R
Database Design and Implementation	C	I	A	R	R	I
Mobile and Web App Deployment	C	A	R	R	R	R
Test Planning and Test Case Dev.	C	R	A	R	R	R
Testing and Quality Assurance	I	C	R	A	R	R
Functional Testing	I	R	R	R	A	C
User Acceptance Testing (UAT)	C	R	R	C	R	A
Server Setup and Configuration	I	R	C	R	A	I
Deployment and Launch	C	R	I	A	I	R
Documentation and Knowledge Transfer	C	C	A	I	R	R
User Support and Issue Resolution	C	A	R	R	I	R
Performance Monitoring and Optimize	C	R	A	R	C	R
User Manuals and Guides	I	R	R	A	R	C
Knowledge Sharing Sessions	C	R	R	R	A	R
Final Project Report	C	R	R	I	R	A

13. Approval

The signatures below indicate their approval of the contents of this document.

Project Role	Name	Signature	Date
Project Manager	Mohammadali Talaei	MT	06/10/2023
Development team member	Mahyar Ghasemi Khah	MG	06/10/2023
Development team member	Sheida Moazeni	SM	06/10/2023
Development team member	Mahshad Eilanlou	ME	06/10/2023
Development team member	Negin Heidari	MT	06/10/2023