1. **WBS\_INITIATION**

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| **S No.** | **Activity name** | **Description** | **Preceding/following activity** | **Estimated Cost** | **Person Responsible** | **Risk** | **Success Criteria** |
| **1** | **Initiation** | Project Initiation communication starts with Project Manager and Stakeholder. Will do the Feasibility Study | Business Case |  | Project Manager |  | Project Goal should be clear |
| **1.1** | **Project Planning & Scope** | Prepared the Project Scope and Charter. | Project Charter/Review the Scope |  | Project Manager and Business Analyst |  | Scope should be clear |
| **1.2** | **Project Scheduling/Budgeting** | Based on the Project Scope, Project Manager will decide the Cost and Time | Project Scope |  | Project Manager, Business Analyst |  | Scope Finalized |
| **1.3** | **Risk Planning** | Identify all the Internal and External Risks and keep track of those Risks into Documents | Project Charter/Project Scope |  | Project Manager, Business Analyst, Stakeholders |  | Risks should be documented |
| **1.4** | **Resource Management** | Identify the Resources headcounts to this project | Scope Finalized |  | Project, Development and Testing Manager |  | All phases will be smooth |
| **1.5** | **Task and Team Management** | A solid communication plan is setup to resolve bottlenecks quickly. | All templates ready and Team members onboarded |  | Project Manager and Project Charter |  | No Conflicts |

1. **WBS\_requirement Gathering**

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| **S No.** | **Activity name** | **Description** | **Preceding/following activity** | **Estimated Cost** | **Person Responsible** | **Risk** | **Success Criteria** |
| **2** | **Requirement Document** | This is the phase where we document all high-level and low-level Requirement in detail | All templates ready & Scope Finalized |  | Project Manager, Business Analyst |  | Final Version of End Product will be good |
| **2.1** | **Gather Requirement** | Note down all the Stakeholders Requirement | All Requirement templates ready & Scope Finalized |  | Business Analyst |  | List assumptions and requirements are ready |
| **2.2** | **Analyze Requirement** | Team will analyze all Requirement and discussed with all Stakeholders to add or update anything in the requirement document | All Requirement templates ready & Identify the Requirement |  | Project Manager, Business Analyst |  | List assumptions and requirements are ready |
| **2.3** | **Draft SRS & Flow** | Prepare the Draft version of the Specification Requirement document and draw the flow diagram | All Requirement templates ready & Identify the Requirement |  | Business Analyst |  | Keep Track of all Requirement and understand the end-to-end flow to get more understanding for development |
| **2.4** | **Peer Review SRS & Flow** | Review the Draft SRS document internally | Requirement Draft version needs to be ready |  | Project Manager, Business Analyst |  | Avoid Misunderstanding in requirement beginning |
| **2.5** | **Approve SRS & Flow** | Send SRS document for the Stakeholders approval | Requirement Draft version needs to be ready |  | Project Manager, Business Analyst |  | Will not deviate from the project |
| **2.6** | **Prepare Dev Plan** | Once all the requirements are done and get the Signoff from Stakeholders. Development Planning Kick off meeting will start | All Requirement ready & approved |  | Project Manager, Business Analyst, Stakeholders |  | Development phase will be smooth |

1. **WBS\_design**

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| **S No.** | **Activity name** | **Description** | **Preceding/following activity** | **Estimated Cost** | **Person Responsible** | **Risk** | **Success Criteria** |
| **3** | **Design** | The Design phase models the way a software application will work | Functional requirement documents |  | Software Architect |  | Development phase will be smooth and Final Version of End Product will be good |
| **3.1** | **Prototype Design** | Users evaluate the developer's proposals and test them before implementation. This helps the user understand specific needs that the developer may not have considered when designing the product | Functional requirement documents |  | Software Architect |  | Development phase will be smooth and Final Version of End Product will be good |
| **3.2** | **System Architecture** | System architecture describes its main components, connections (structures) and how they interact with each other. | End to End Flow Diagram in SRS |  | Software Architect |  | Development phase will be smooth and Final Version of End Product will be good |
| **3.3** | **System Design** | It includes the design of application, network, database, user interface and computer interfaces. | End to End Flow Diagram in SRS |  | Software Architect |  | Development phase will be smooth and Final Version of End Product will be good |
| **3.4** | **Stakeholders Approval on Design** | Final approval from the stakeholders about design of product before development phase starts | All Design documents completed |  | Stakeholders |  | Development phase will be smooth and Final Version of End Product will be good |

1. **WBS\_dEVELOPMENT**

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| **S No.** | **Activity name** | **Description** | **Preceding/following activity** | **Estimated Cost** | **Person Responsible** | **Risk** | **Success Criteria** |
| **4** | **Development** | Development of the application by keeping in mind with system design & architecture | Prototype, System Design and Functional Document |  | Development Manager |  | All functionalities should be implemented |
| **4.1** | **Framework Design** | A framework used by development teams to create high-quality software in an efficient and cost-effective manner. | End to End Flow Diagram in SRS, Identify Reusable Functions and Application pages |  | Development Manager |  | Easy to Use and Less Complicated while debugging |
| **4.2** | **UI/UX Design** | UI & UX design improve the user interface by making it more visually appealing | End to End Flow Diagram in SRS, Identify Reusable Functions and Application pages |  | Development Team |  | User Friendly and Easy to Use |
| **4.3** | **Database** | Storing all the user details, parking-related data | End to End Flow Diagram in SRS, Identify Reusable Functions and Application pages |  | Development Team |  | Fault Tolerance |
| **4.4** | **Backend** | Developing the code to make the system work in a efficient way | End to End Flow Diagram in SRS, Identify Reusable Functions and Application pages |  | Development Team |  | Fault Tolerance and Response time will be good |
| **4.5** | **Integration** | Integrating the frontend & backend code to make the application work | End to End Flow Diagram, Backend Architecture |  | Development Team |  | Fault Tolerance and Response time will be good |
| **4.6** | **Code Review** | Review the code with the team lead to make sure following coding principles | Code needs to be completed |  | Development Manager |  | Less Defects and cover all the functionality |
| **4.7** | **Unit Testing** | Write classes for all components for testing the functionality | Code needs to be reviewed |  | Development Team |  | Cover all the functionality, requirement, Testing end to end from development side |
| **4.8** | **Code Check in** | Pushing the code into Version Control System | Final approval Signoff from Development Manager |  | Project Manager and Development Manager |  | Ready for Testing |

1. **WBS\_TESTING**

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| **S No.** | **Activity name** | **Description** | **Preceding/following activity** | **Estimated Cost** | **Person Responsible** | **Risk** | **Success Criteria** |
| **5** | **Testing** | Test all the Functional and non-functional requirement | Code Ready and Final approval Signoff from Development Manager |  | Testing Manager |  | No Major Defects |
| **5.1** | **Design & Review TC’s, Mapp with the RTM** | Cover all the Positive and Negative Scenarios of all the Functional and End to End Requirements | Code should be Ready |  | Testing Team, Testing Manager |  | Cover all the Requirement and Maximum Coverage so that testing team should not miss any requirement while doing testing |
| **5.2** | **Functional Testing** | Test the components of the application | Functional Testcases should be ready |  | Testing Team |  | Cover all the Requirement |
| **5.3** | **Integration Testing** | Test the integration flow between all modules | All the Functional components should be tested |  | Testing Team |  | Cover all the Requirement |
| **5.4** | **System Testing** | Test the application from end to end | Functional components should be tested independently |  | Testing Team |  | Cover all the Requirement |
| **5.5** | **Defect Tracking** | Keep track of all defects and inform it to developers. Again, do the retesting | All the testcases should be executed based on the acceptance criteria |  | Testing Team |  | No major issues in Production |
| **5.6** | **Regression on New Changes** | New changes are implemented then | All Functional Testing should be performed |  | Testing Team |  | Existing functionalities should stable |
| **5.7** | **RTM** | Mapp all the testcases with the requirements. | Testing should be done |  | Testing Team |  | Maximum Coverage so that testing team should not miss any requirement while testing |
| **5.8** | **Final Approval** | Final approval on all the testing Environment and ready for deployment | Testing should be done with minimum defect leakage or no critical and major defects |  | Testing Manager, Project Manager |  | All the functionalities are tested and ready for Live |

1. **WBS\_dePLOY**

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| **S No.** | **Activity name** | **Description** | **Preceding/following activity** | **Estimated Cost** | **Person Responsible** | **Risk** | **Success Criteria** |
| **6** | **Deploy** | It covers the work required to deploy the final solution to target production environments. | Testing should be completed |  | Dev-ops Team |  | Application deploys without any hindrance and user use the application without having any issues |
| **6.1** | **CI/CD Pipeline** | A series of steps to follow to deliver a new version of the software. CICD introduces monitoring and automation to improve processes | Production Environment should be ready |  | Dev-ops Team |  | Successfully running the build |
| **6.2** | **Prepare System Manual** | It is a system-specific hybrid document that includes an operating manual, a maintenance manual, and additional information. | Production Environment should be ready and clear understanding of all the Requirements |  | Dev-ops Team |  | Easy to use for users |
| **6.3** | **User Acceptance Test** | testing performed by end users or customers to validate/approve a software system before moving the software to a production environment. | UAT Testcases should be ready |  | End Users/ Stakeholders who are using this application |  | Easy to use for users and cover all the requirements which user wants |
| **6.4** | **Delivery** | Delivery of the final application to the end users | Final application should be ready |  | Dev-ops Team |  | Successfully Deploy the build in all platforms |
| **6.5** | **Final Signoff** | Get the approval from Stakeholders and required team as this is last stage of the Project. We can close the project once we get the Signoff from all teams | Testing/Development/Deployment should complete and Signoff with all Managers and Stakeholders |  | Dev-ops Team |  | Successfully Deploy the build in all platforms |
| **6.6** | **Monitor and Support** | Monitoring the application, it is bug-free and running smoothly without any interruptions | Application should be on Production |  | Support Team |  | Application running smoothly |

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