PROJECT PLANNING PHASE

MILESTONE AND ACTIVITY LIST

Date	18 October 2022
Team ID	PNT2022TMID35251
Project Name	Developing a flight delay prediction model using Machine Learning
Maximum Marks	2 marks

S.no	Milestone	Activity Description	Team Members
1.	***Preparation phase***	Access the resources in the project dashboard. Access the guided project workspace. Create a GitHub account & collaborate withProject Repository in project workspace. Set-up the Laptop / Computers based on the prerequisites for each technology track	- Akshaya Lakshmi - Sneha S - Ramya Devi P - Mullapudi Renuka
2.	***Ideation phase***		
2.1	Literature Survey	Gathering information about various papers related to the project	- Akshaya Lakshmi - Sneha S - Ramya Devi P - Mullapudi Renuka
2.2	Empathy Map	To capture the pains, gains and thoughts of the user (The customer who is passenger of the flight being delayed)	- Akshaya Lakshmi - Sneha S - Ramya Devi P - Mullapudi Renuka
2.3	Problem Statements	To identify clear goals of the project	- Akshaya Lakshmi - Sneha S - Ramya Devi P - Mullapudi Renuka
2.4	Brainstorming	To prioritise the ideas based on feasibility and importance	- Akshaya Lakshmi - Sneha S - Ramya Devi P - Mullapudi Renuka

3.	**Project Design Phase I**		
3.1	Proposed Solution	Preparation of proposed solution document,which includes the novelty, feasibility of idea,business model, social impact, scalability of solution	• Akshaya Lakshmi • Sneha S • Ramya Devi P • Mullapudi Renuka
3.2	Problem Solution Fit	Problems and solutions are analysed and coming with effective solutions	• Sneha S • Akshaya Lakshmi
3.3	Solution Architecture	Prepare an architecture diagram (block diagram) for the solution	• Mullapudi Renuka • Ramya Devi P
4.	**Project Design Phase II**		
4.1	Requirement Analysis	Listing of functional and non- functional requirements of projects.	• Ramya Devi P • Sneha S
4.2	Customer Journey	Preparation of customer journey maps to understand the user interactions & experiences with the application using the template.	• Akshaya Lakshmi • Mullapudi Renuka
4.3	Data FlowDiagrams	Prepare DFD to understand the process, inputs and outputs better	• Mullapudi Renuka • Sneha S
4.4	Technology Architecture	Prepare the Technology architecture diagram	• Akshaya Lakshmi • Ramya Devi P
5.	**Project Planning Phase**		
5.1	Milestone and Tasks	Prepare the milestone and activity list for the entire project.	• Akshaya Lakshmi • Sneha S • Ramya Devi P • Mullapudi Renuka
5.2	Sprint Schedules	Sprint schedule for the project is planned	• Akshaya Lakshmi • Sneha S • Ramya Devi P • Mullapudi Renuka
6.	**Project Development Phase**		

6.1	Coding & Solutioning	Sprint-1 Delivery: Develop the Code, Test and push it to GitHub.	
6.1.1	Data Collection	Download dataset. And create test and train folders	• Ramya Devi P • Akshaya Lakshmi
6.1.2	Data Preprocessing and Model Building	• Pre-processing of the data is done and it is split into train and test dataset. • Required libraries are imported, and required layers are added to the model. • Model is compiled. Fit and save the model	• Akshaya Lakshmi • Sneha S • Ramya Devi P • Mullapudi Renuka
6.1.4	Train the model	Register for the IBM cloud and Train the model	• Mullapudi Renuka • Akshaya Lakshmi • Ramya Devi P
6.1.4	Application Building	Build HTML pages	• Sneha S • Mullapudi Renuka
		Build Flask Application	• Sneha • Akshaya Lakshmi
6.2	Testing	Sprint-2,3,4 Delivery: Develop the Code, Test and push it to GitHub. Application is executed and tested	• Renuka • Ramya • Sneha

Milestone Timeline Chart