

PROJECT PROJECT PLANNING PHASE MILESTONE AND ACTIVITY LIST

Team ID	PNT2022TMID35187
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 and collaborate with Project Repository in project workspace. Set-up the Laptop/ Computers based on the prerequisites for each technology tracks.	<ul style="list-style-type: none"> ● Dhivyashri R ● Kavya Sridhar ● Shrishti P ● Athirai S
2.	Ideation Phase		
2.1	Literature Survey	Gathering information about various papers related to the project	<ul style="list-style-type: none"> ● Dhivyashri R ● Kavya Sridhar ● Shrishti P ● Athirai S
2.2	Empathy map	To capture the advantages and disadvantages of the prediction system.	<ul style="list-style-type: none"> ● Dhivyashri R ● Kavya Sridhar ● Shrishti P ● Athirai S
2.3	Problem Statements	To identify clear goals of the project	<ul style="list-style-type: none"> ● Dhivyashri R ● Kavya Sridhar ● Shrishti P ● Athirai S

2.4	Brainstorming	To prioritize the ideas based on feasibility and importance	<ul style="list-style-type: none"> ● Dhivyashri R ● Kavya Sridhar ● Shrishti P ● Athirai S
3.	Project Design Phase 1		
3.1	Proposed solution	Preparation of proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution	<ul style="list-style-type: none"> ● Dhivyashri R ● Kavya Sridhar ● Shrishti P ● Athirai S
3.2	Proposed Solution Fit	Problems and solutions are analyzed and coming with effective solutions	<ul style="list-style-type: none"> ● Dhivyashri R ● Kavya Sridhar ● Shrishti P ● Athirai S
3.3	Solution Architecture	Prepare an architecture diagram for the solution.	<ul style="list-style-type: none"> ● Dhivyashri R ● Kavya Sridhar ● Shrishti P ● Athirai S
4.	Project Design Phase 2		
4.1	Requirement analysis	Listing of functional and non-functional requirements of projects.	<ul style="list-style-type: none"> ● Dhivyashri R ● Kavya Sridhar ● Shrishti P ● Athirai S
4.2	Customer Journey	Preparation of customer journey maps to understand the user interactions and experiences with the application using the template.	<ul style="list-style-type: none"> ● Dhivyashri R ● Kavya Sridhar ● Shrishti P ● Athirai S
4.3	Data Flow Diagram	Prepare DFD to understand the process, inputs and outputs better.	<ul style="list-style-type: none"> ● Dhivyashri R ● Kavya Sridhar ● Shrishti P ● Athirai S

4.4	Technology Architecture	Prepare the technology architecture diagram	<ul style="list-style-type: none"> • Dhivyashri R • Kavya Sridhar • Shrishti P • Athirai S
5.	Project Planning Phase		
5.1	Milestones and Tasks	Prepare the milestone and activity list for the entire project.	<ul style="list-style-type: none"> • Dhivyashri R • Kavya Sridhar • Shrishti P • Athirai S
5.2	Sprint schedules	Sprint schedule for the project is planned	<ul style="list-style-type: none"> • Dhivyashri R • Kavya Sridhar • Shrishti P • Athirai S
6.	Project Development Phase		
6.1	Coding and solutioning	Sprint-1 delivery: develop the code, test and push it to GitHub	<ul style="list-style-type: none"> • Dhivyashri R • Kavya Sridhar • Shrishti P • Athirai S
6.1.1	Data Collection	Download Dataset. Create test and train folders	<ul style="list-style-type: none"> • Dhivyashri R • Kavya Sridhar • Shrishti P • Athirai S
6.1.2	Data preprocessing and model building	<ul style="list-style-type: none"> • Pre-processing of the data is done and it is split into train and test dataset. • Requires libraries are imported, and required layers are added to the model. • Model is compiled. Fit and save the model. 	<ul style="list-style-type: none"> • Dhivyashri R • Kavya Sridhar • Shrishti P • Athirai S

6.1.4	Train the model	Register for the IBM cloud and train the model.	<ul style="list-style-type: none"> ● Dhivyashri R ● Kavya Sridhar ● Shrishti P ● Athirai S
6.1.5	Application Building	Build HTML page	<ul style="list-style-type: none"> ● Dhivyashri R ● Kavya Sridhar ● Shrishti P ● Athirai S
		Build Flask Application	
6.2	Testing	Sprint-2,3,4 Delivery: Develop the code, test and push it to GitHub. Application is executed and tested.	<ul style="list-style-type: none"> ● Dhivyashri R ● Kavya Sridhar ● Shrishti P ● Athirai S

MILESTONE TIMELINE CHART

