Project Design Phase-II
Technology Stack (Architecture & Stack)

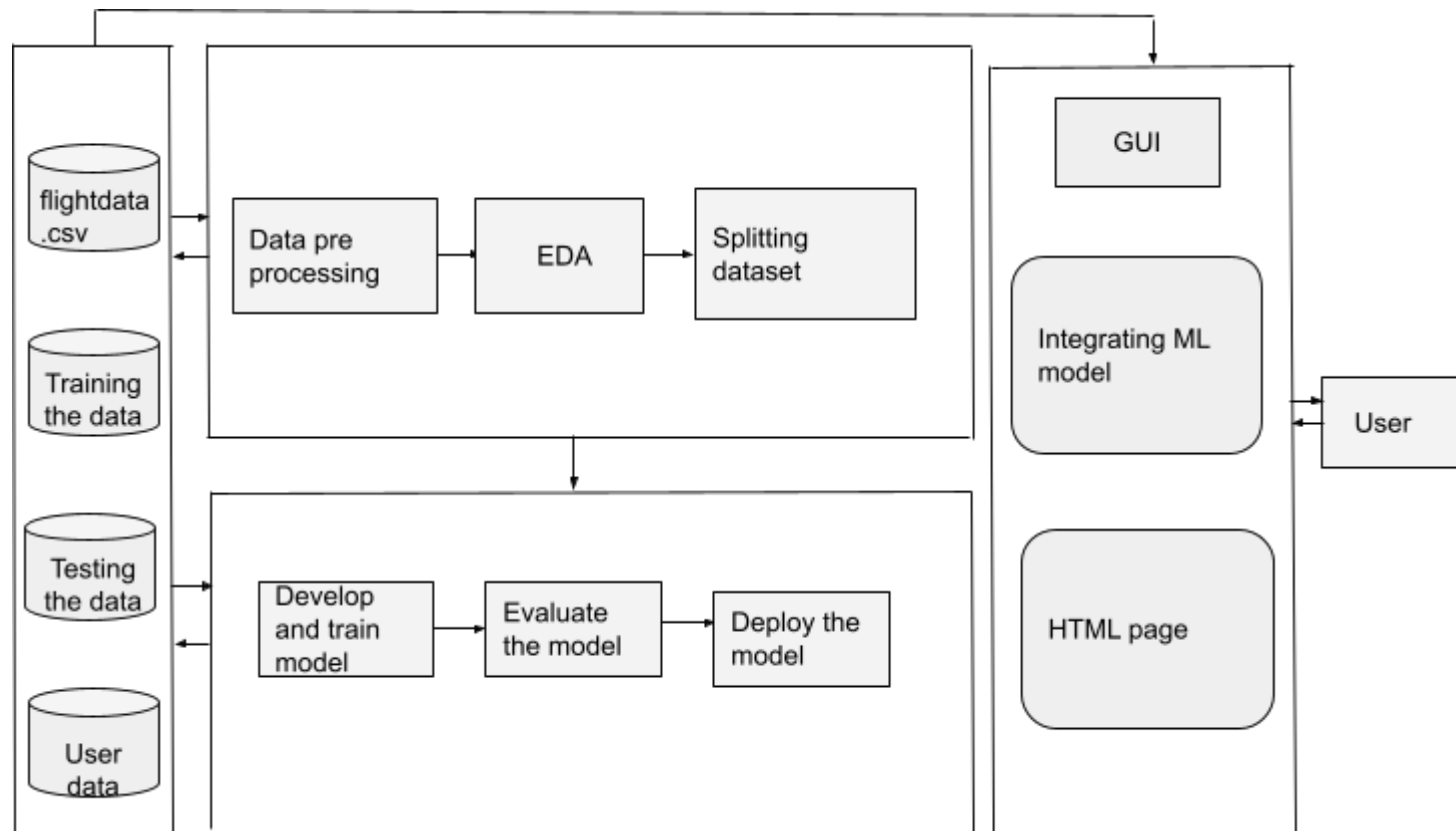| Date	03 October 2022
Team ID	PNT2022TMID32621
Project Name	Developing a Flight Delay Prediction Model using Machine Learning
Maximum Marks	4 Marks

Technical Architecture:

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application	HTML, CSS
2.	Application Logic-1	Develop, train and find best ML Model	Python
3.	Application Logic-2	Deploy the best ML model	IBM Watson
4.	Application Logic-3	Integrating ML model with Flask web app	IBM Watson , Python , Flask

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask, Scipy, Jupyter Notebook	Microframework
2.	Scalable Architecture	3 – tier, Micro-services	Relational database, cloud, GUI
3.	Availability	Distributed servers	IBM Cloud
4.	Performance	100 per sec	IBM Watson App Service