PROJECT PLANNING PHASE

MILESTONES AND TASKS

Date	27 October 2022
Team ID	PNT2022TMID21545
Project Name	Project – Analytics for Hospital's Health-care Data

USER STORIES & EPICS

USN-1 : As a patient, I want to visualize the hospital health care data.

USN-2 : As a patient, I want the relationship between various attributes in the dataset.

USN-3 : As a user, I want an interactive dashboard to understand the data easily.

USN-4 : As a patient, I want to find the available rooms in each hospital.

USN-5 : As a user, I want to be able to change the visualizations to my convenience.

USN-6 : As a patient, I want to predict length of stay in different hospitals so that I can plan accordingly.

USN-7 : As a Hospital manager, I want to predict the length of stay so that I can allot the hospital room accordingly.

USN-8 : As a user, I want an easily understandable UI to get my prediction.

USN-9 : As a Patient, I want to know the system's accuracy so that I can believe predictions are correct.

USN-10 : As a Patient, I want to give user response

USN-11 : As the admin,I want to login to the admin dashboard.

USN-12 : As the admin ,I need to be able to monitor the user responses.

USN-13 : As an admin , I want to be able to update the dataset for the model training and monitor the accuracy.

SPRINT	MILESTONES	TASKS	USER STORIES / EPICS
1	MILESTONE-1	❖ Understanding the dataset. ❖ Data Cleaning ❖ Data Transformation	USN-1
1	MILESTONE-2	❖ Explore the data. ❖ Visualization of the data using the python libraries. ❖ Finding correlations between various attributes using heat maps.	USN-1, USN-2
1	MILESTONE-3	❖ Creating the interactive dashboard and reports using IBM cognos. ❖ Display the insights in the dashboard.	USN -3, USN-5
2	MILESTONE-4	❖ Training a model using a preferred multiclass classification algorithm. ❖ Classifying the Length of stay class using an algorithm.	USN-4, USN-6, USN-7
2	MILESTONE - 5	❖ Compute confusion matrix ❖ Calculate precision, recall and accuracy.	USN-9

3	MILESTONE-6	❖ Creating a rough sketch for the UI. ❖ Designing an UI for the application using mockflow. ❖ Evaluate the UI design	USN-8
3	MILESTONE - 7	❖ Implementing frontend for dashboard. ❖ Implementing frontend for user response form ❖ Implementing the frontend for profile page ❖ Implementing the front end for getting the user data for prediction	USN-8, USN-10
3	MILESTONE - 8	❖ Implementing backend for the application ❖ Integrating the prediction model with the UI design	USN-8 , USN-10
4	MILESTONE - 9	❖ Creating a rough sketch for the UI of the admin page. ❖ Designing an UI for the admin page using mockflow. ❖ Evaluate the admin page UI design	USN-11, USN-12, USN-13
4	MILESTONE - 10	❖ Implementing frontend for admin dashboard. ❖ Implementing frontend to view user responses. ❖ Implementing the front end to edit data in the dataset ❖ Implementing the front end to monitor the accuracy	USN-11, USN-12, USN-13
4	MILESTONE - 11	❖ Import necessary libraries, initiate the flask app and load the ML model. ❖ Define the app router for the application.	USN-11, USN-12,

		❖ Redirect the API to predict the LOS.	USN-13
4	MIlestone -12	❖ Deploy the application in cloud	USN-8, USN-11, USN-12, USN-13