Experiment 8

Aim: Agile Sprint Planning: Conduct a simulated sprint planning session following agile principles, where students break down user stories into tasks, estimate their effort, and allocate them for a sprint.

Sprint Planning:

Story ID	Description	Priority	Effort	Assigned To
1	Collect dataset and clean for processing.	Medium	4	Alice
2	Create a pipeline for visualizing sprint data.	High	6	Bob
3	Deploy Streamlit app to cloud hosting.	High	8	Charlie
4	Fix app crash caused by missing input validation.	High	9	Alice
5	Implement effort estimation slider for tasks.	Medium	5	Bob
6	Add team assignment logic for user stories.	Low	3	Charlie

Fig 1: Agile Sprint Planning

Task	Points (Effort)	Priority	Assigned To
Data collection and preprocessing	4	Medium	Alice
Build sprint visualization pipeline	6	High	Bob
Deploy app to Streamlit cloud	8	High	Charlie
Fix crash on invalid user input	9	High	Alice
Add effort slider for estimation	5	Medium	Bob
Add team assignment functionality	3	Low	Charlie

Fig 2: Generated Sprint Workflows

Fig 3: Iris Data Analysis in Python (First Sprint Task)

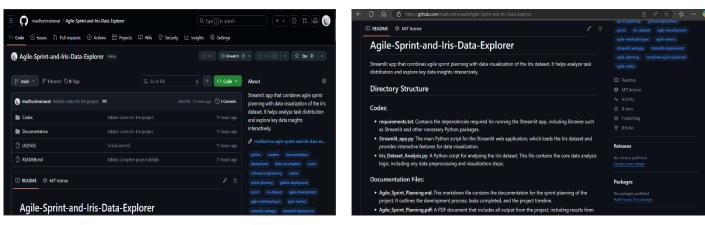


Fig 4: GitHub Repository(Second Sprint Task): <u>Live Link</u> Fig 5: GitHub Repository Documentation (Third Sprint Task)

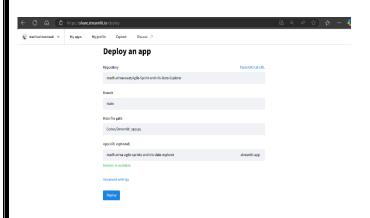


Fig 6: Streamlit Deployment(Fourth Sprint Task)

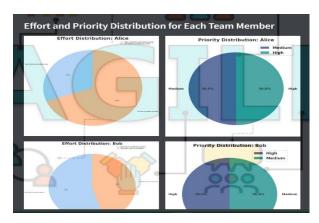


Fig 8: Streamlit Deployed App View 2



Fig 10: Streamlit Deployed App View 4



Fig 7: Deployed Streamlit App (Fifth Sprint Task): Live Link

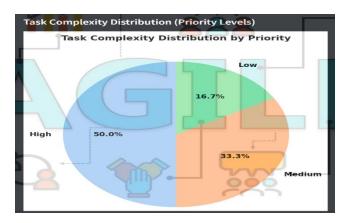


Fig 9: Streamlit Deployed App View 3

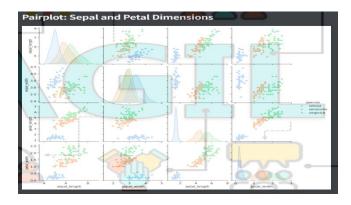


Fig 11: Streamlit Deployed App View 5

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