Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

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Date	1 November 2023
Team ID	Team-592942
Project Name	Detecting COVID-19 From Chest X-Rays Using Deep Learning Techniques
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Establish the project's foundation	USN-1	-Collect diverse chest X-ray datasets: Research and collect COVID-19 and normal chest X-ray datasets. Preprocess and clean the data: Organize and store data, resize, normalize, handle missing data Design a CNN architecture: Choose an appropriate architecture, split data into train, validation, and test sets, implement data augmentation	10	High	

Sprint-2	Develop and train the initial CNN model	USN-2	- Train the CNN model: Configure model architecture, train on training set, implement early stopping and model checkpointing Evaluate model performance: Use validation set, implement evaluation metrics, identify areas for improvement.	10	High	
Sprint-3	Optimize the model's performance and prepare for deployment	USN-3	- Fine-tune model hyperparameters: Perform hyperparameter tuning based on validation results, document the best hyperparameters Prepare for deployment: Export the trained model in a suitable format (e.g., TensorFlow SavedModel, ONNX), create a simple user interface for testing.	10	High	
Sprint-4	Finalize the project, conduct testing, and document	USN-4	- Conduct testing and debugging: Test the model with COVID-19 and normal chest X-ray images, address and fix issues, ensure a functional user interface Document the project: Create project documentation, prepare a presentation or report for stakeholders.	10	High	
Sprint-1	Deploy the model On flask.	USN-5	- Set up Flask application: Establish a Flask application for deploying the model Model Integration: Integrate the trained model into the Flask application Create RESTful API: Develop a RESTful API endpoint for model	10	High	

	inference Test Flask Deployment: Conduct testing and debugging for the Flask deployment Document Flask Deployment: Create documentation for the Flask deployment, including setup instructions and API documentation.		

Project Trackert: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	4 Days	2 Nov 2023	5 Nov 2023	10	1 November 2023
Sprint-2	20	4 Days	6 Nov 2023	9 Nov 2023	10	1 November 2023
Sprint-3	20	4 Days	10 Nov 2023	13 Nov 2023	10	1 November 2023
Sprint-4	20	4 Days	14 Nov 2023	17 Nov 2023	10	1 November 2023