PROJECT PLAN DOCUMENT

(Due: 31st January, 2024)

Project number	Team 9
Project Title	Software Part for Clinical Biosensor
Document	Project Plan
Creation date	31/01/24
Created By	Mayaank Ashok(2022111022), Nitin Avuthu(2022115002), Maitreya Chitale(2022114011), Ketaki Shetye(2022114013)
Client	Saaraj Gupta – Bionovus Technology Pvt. Ltd.

Brief problem statement

The problem at hand involves the development of an algorithm for quantifying color intensity in a clinical biosensor product designed to test blood samples. To address this, we need to create an algorithm capable of accurately assessing the color intensity from provided sample color gradient spots. Additionally, a Human-Machine Interface (HMI) design is required, incorporating various screens and tabs as outlined in the provided scheme, ensuring a user-friendly experience for effective interaction with the biosensor system.

Team Members

Mayaank Ashok: Algorithm Designer, Tester

Nitin Avuthu: Code Implementation, Coordination with Client

Ketaki Shetye: Code Implementation, Team Manager

Maitreya Chitale: Code Implementation, Tester

Team Communication

Weekly the team (students) meet once, to discuss the project plan and to share individual progress.

Weekly we meet with the client once, to share team progress and get updates and suggestions and refine the project requirements.

Development Environment

Collaboration Tools: Git, GitHub, Google Meet.

Programming Language: Python, Javascript, MongoDB Development Environment: Jupyter Notebook, VS Code

Libraries Used: OpenCV, NumPy, ReactJS, Flask

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Milestone Schedule

Milestone	Due Date	Release	Deliverable?
Setup git repo	10/01/24	R1	No
Create draft requirements	12/01/24	R1	No
Finalize requirements	20/01/24	R1	Yes
Learn libraries for the image detection algorithm (OpenCV, NumPy)	24/01/24	R1	No
Implement the image detection algorithm.	3/02/24	R1	Yes
Learn MongoDB, Flask	10/02/24	R1	No
Create the database with terminal UI	21/02/24	R1	Yes
Expose database via Flask	1/03/24	R1	Yes
Learn React.js	12/02/24	R1	No
Implement the Web UI	24/02/24	R1	Yes

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