Progress Review Presentation

Nexus

Content

- 1. Introduction to the project
- 2. Project objectives
- 3. Identified Functional Requirements
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- 7. Wireframes of UI design
- 8. Progress of the project
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- 10. Monthly Retrospective
- 11. Project limitations and Problems encounter

Members

- Supervisor: Ms. Kushani Bandara
- Group:21
- Cluster: 21.1

- MJM.Amajith 721434768 (Back-end Developer)
- MN.Fathima Rafaha 121428697 (UI/UX Developer)
- MMZ. Zahra 221445832 (Front-end Developer)
- MHA. Ahmed 321422851 (Model Developer)

Introduction

Acute lymphoblastic leukemia (ALL) is a type of cancer that affects the blood and bone marrow. In general diagnosis of ALL is typically made by a combination of blood tests and bone marrow biopsies. However, these tests can be difficult to interpret, and there is a risk of false positives and false negatives.

Objectives

The project aims to deliver medical practitioners with an AI agent that can recognize cells and classify them as either leukemic or regular cells based on learned patterns and characteristics.

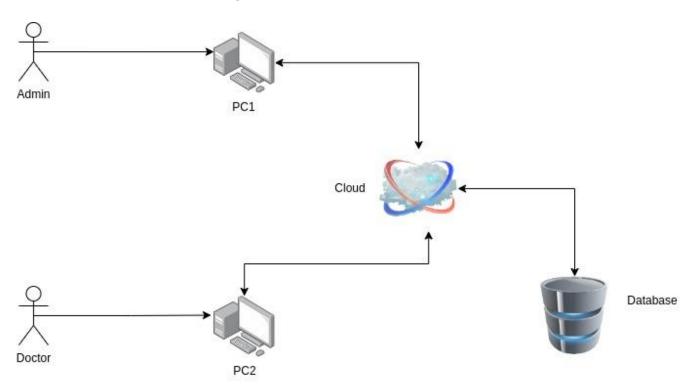
Functional Requirements

- Image Input and Processing
- Convolutional Neural Network (CNN) Analysis
- Diagnostic Reporting
- User Authentication
- Historical Diagnosis and Clinical Details
- User Interface

Non-functional Requirements

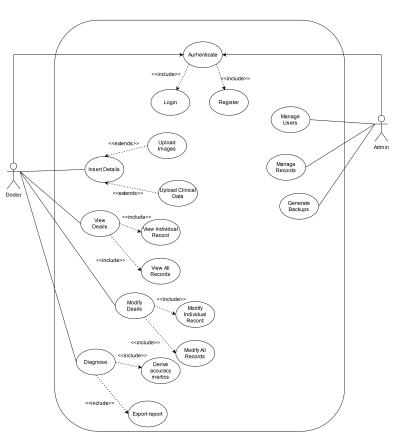
- Performance (processing time should be less than 10 seconds ,should support concurrent analysis of at least 100 images)
- Accuracy (minimum accuracy requirement is set at 90%,,should maintain consistency in classification results for the same input image over multiple runs(10).)
- Scalability (should be scalable to accommodate future enhancements and changes.)
- Security (must ensure the confidentiality and integrity of patient data by implementing appropriate security measures such as encryption and access controls to protect sensitive information)

System Architecture Diagram

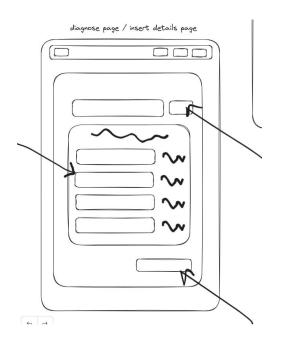


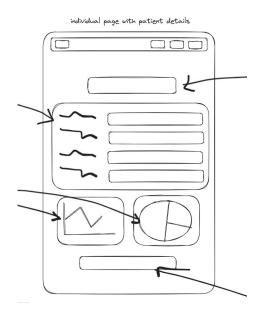
Use-case Diagram

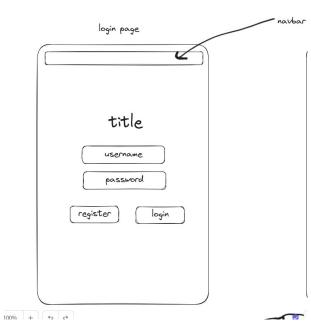
ALLCDS



Wireframes of UI design



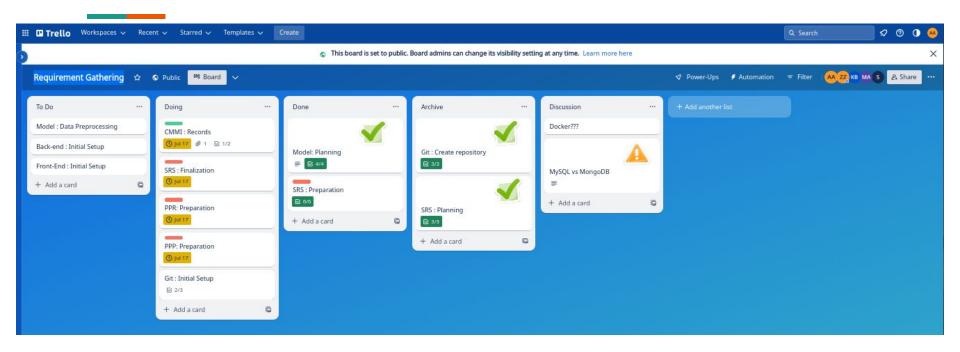




Progress of the project

- Planning and Requirements
 - Gather and prioritize user requirements (Completed)
 - Medium : Questionnaire and Interview
 - Create and maintain information about user classes (Completed)
 - Plan releases and determine the work for each sprint. (specified in Trello)
- Design
 - Create high-level architectural designs and detailed design solutions for user classes (completed)
- Development
 - Implement the designed features or functionalities through coding. (WIP)
 - Implement frontend modules (WIP)
 - Implement backend modules (WIP)
 - Integrate database (completed)
 - Design and integrate the cnn model.(WIP)
- Testing (TBA)
- Deployment and Evaluation (TBA)

Project Governance Tool



CMMI Meeting Minutes

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Meeting Date/Time	22/06/2023			
Participants	Fathima Rafaha Adheeb Ahmed Zeenath Zahra			
Estimated Time	Thour	Actual Time	40 minutes	
Special Notes	Amaajith was absent			
Call/Location Information	Zoom			
Supported	Null			

Agenda:

Appointment with supervisor Supervisors approval for the project proposal Discussion about Project management and progress tracking tool

Notes/Clarifications:

Git will be used for project management Trello will be used to track the progress of the project

Meeting Minutes:

Scheduled a meeting with the supervisor for next week. Supervisor approved the project proposal. Agreed to use Git for project management.

Set up a Git repository and shared access with the team.

Decided to track progress using Trello.

Assigned tasks and deadlines to team members in Trello.

Will update the Trello board regularly to monitor progress

Meeting-Heading

		Meeting Inform	ation	
Meeting Date/Time	2023-07-17	*	(2)	
Participants	All			
Estimated Time	15 Mins	Actual Time	25 Mins	
Special Notes				
Call/Location Information	Teams			
Supported Documents	None			

Documenting gathered requirments Preparing SRS

Preparing PPR Preparing PPP

Notes/Clarifications:

Amsaiith documented all requirements from the source document

Zahra and amaajith outlined and prepared SRS

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Action Item	Decision made by
	-

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		Mosting Inform	ation	
Meeting Date/Time	2023-07-20			
Participants	AI			
Estimated Time	60 Mins	Actual	60 Mins	
Special Notes				
Call4.ocation Information	Tearra			
Supported Documents	None			

Finalizing reports

Ameajith and Zahra finalized SRS and PPR

Rafaha fisalized PPP
Adheeb started preprocessing the dataset and found a scalable model for training and evaluation

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medi noita	Decision made by

Meeting-Heading

0.0000000	V-1000000000000000000000000000000000000	Meeting Inform	ation	
Meeting Date/Time	2023-06-27		2.10.0(5)	
Participants	All	- 68'	ia .	
Estimated Time	20 Mins	Actual Time	25 Mins	
Special Notes		- 10000	1.00	
Call/Location Information	Teams			
Supported Documents	None			

Planning Requirement Gathering Choosing SDLC methodology Choosing right database system

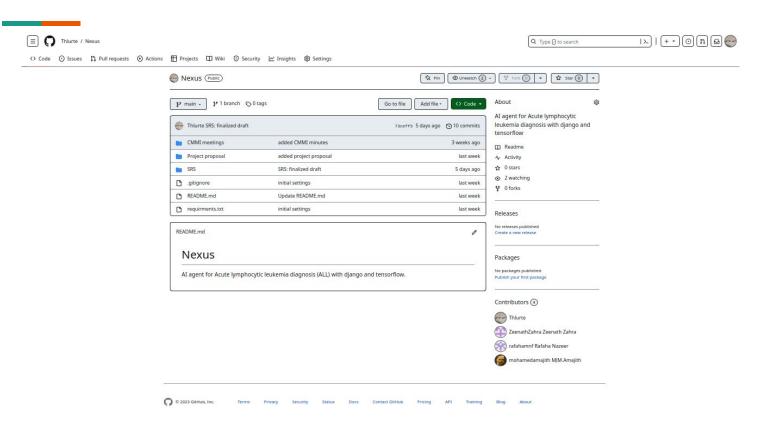
Notes/Clarifications:

Amaajith emphasized the benefits of Agile Development Zahra outlined a proper plan for requirement gathering Rafaha demonstrated the seamless integration of mysql with django

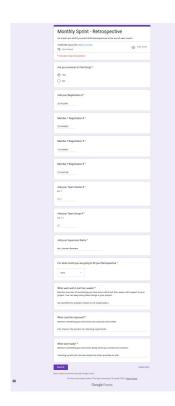
Decision made by	
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	Unanimous Unanimous

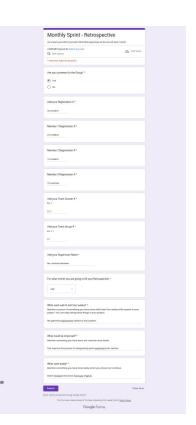
Omenization name

Github



Monthly Retrospective





Project limitations and Problems encounter

- Data preprocessing consumes too much time.
- Integrating model with backend is a complex process.
- Model consumes more computing resources and performance is very slow

Supervisor's Approval:

Ms. Kushani Bandara