Progress Review Presentation

Nexus

Content

1. Introduction to the project
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4. Identified Non-Functional Requirements
5. Proposed System Architecture Diagram
6. Use case diagram
7. Wireframes of UI design
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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)

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.

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.
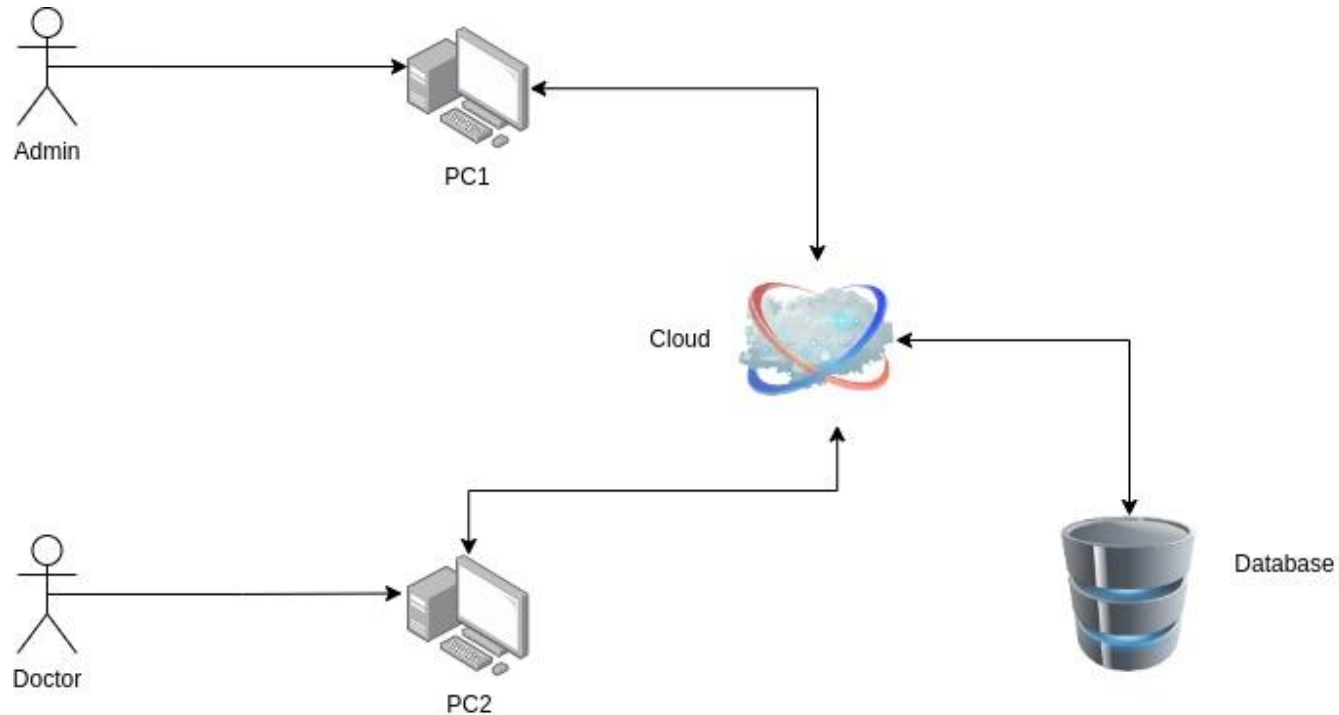
Functional Requirements

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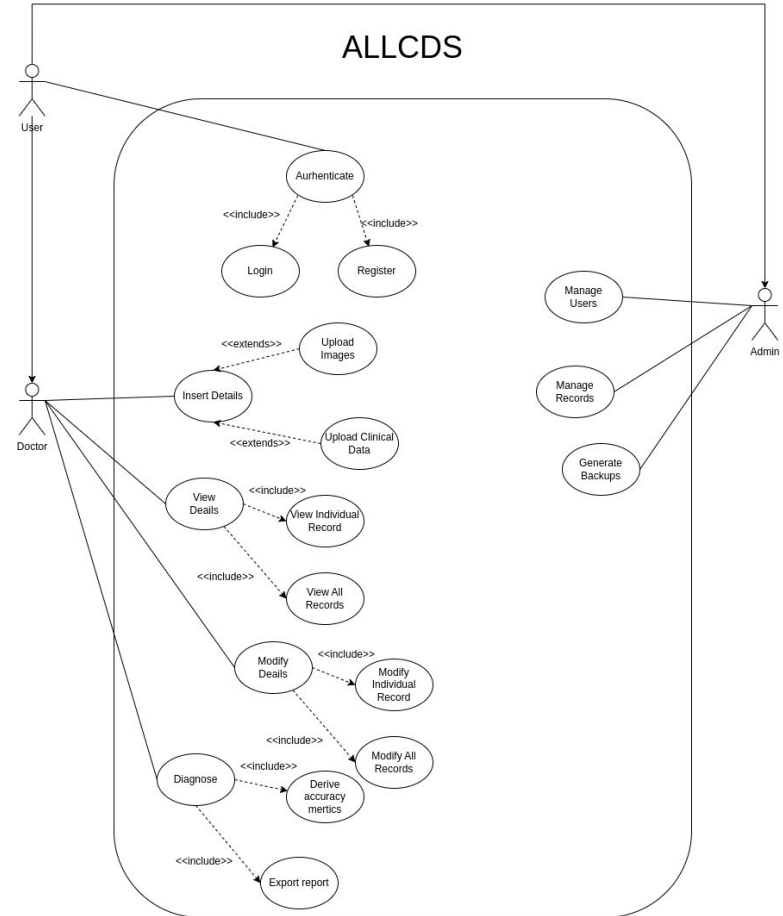
Non-functional Requirements

- Should consume favourable amount resources in computation.
- Should be able to handle large volume of images and classifications simultaneously.
- Must achieve a high accuracy rate in differentiating between pathological and regular cells.
- Should maintain consistency in classification results for the same input image over multiple runs
- Must ensure the confidentiality and integrity of patient data.
- Should be scalable to accommodate future enhancements and changes
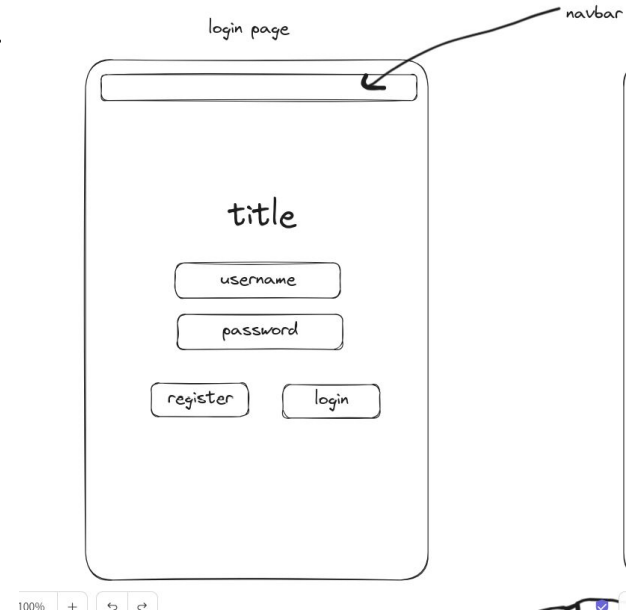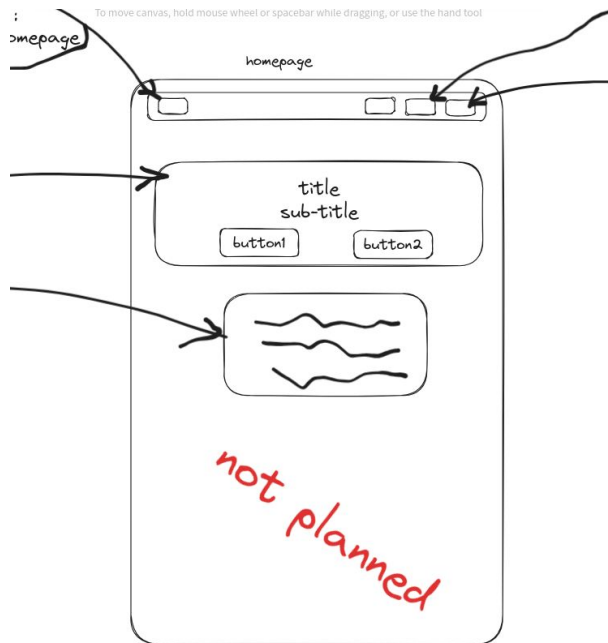
System Architecture Diagram

Use-case Diagram

Wireframes of UI design

diagnose page / insert details page

homepage

To move canvas, hold mouse wheel or spacebar while dragging, or use the hand tool

title
sub-title

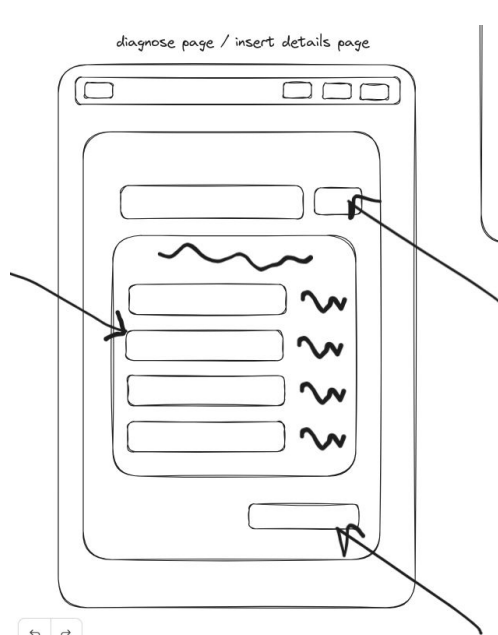button1   button2

not planned

login page

navbar

title

username

password

register   login

100%

Progress of the project

- Finalized SRS Report (Done)
- Finalized PPR and PPP (Done)
- Git & Project Governance Tool (Created)
- Initial Implementation (Done)
- Functional Requirements Implementation (Pending)
- Non-functional Requirements Implementation (Pending)
- Testing & Evaluation (Pending)
- Final Report & Presentation (Pending)

Trello

Search

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Requirement Gathering   ☆   🌐 Public | 🏴 Board ∨

Power-Ups   ⚡ Automation   ≡ Filter   AA ZZ KB MA S   👤 Share   ⋯

To Do

Model : Data Preprocessing

Back-end : Initial Setup

Front-End : Initial Setup

+ Add a card

Doing

CMMI : Records
🕐 Jul 17   📎 1   ☑ 1/2

SRS : Finalization
🕐 Jul 17

PPR: Preparation
🕐 Jul 17

PPP: Preparation
🕐 Jul 17

Git : Initial Setup
☑ 2/3

+ Add a card

Done

Model: Planning
≡   ☑ 4/4

SRS : Preparation
☑ 6/6

+ Add a card

Archive

Git : Create repository
☑ 3/3

SRS : Planning
☑ 3/3

+ Add a card

Discussion

Docker???

MySQL vs MongoDB
≡

+ Add a card

+ Add another list

Meeting Information		
Meeting Date/Time	22/06/2023	
Participants	Fathima Rafaha Adheeb Ahmed Zeenath Zahra	
Estimated Time	1 hour	**Actual Time**	40 minutes
Special Notes	Amaajith was absent	
Call/Location Information	Zoom	
Supported Documents	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

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Nexus Public

Pin Unwatch 2 Fork 0 Star 0

main 1 branch 0 tags

Go to file Add file Code

Thlurte SRS: finalized draft 73ceff3 5 days ago 10 commits

CMMI meetings	added CMMI minutes	3 weeks ago
Project proposal	added project proposal	last week
SRS	SRS: finalized draft	5 days ago
.gitignore	initial settings	last week
README.md	Update README.md	last week
requirments.txt	initial settings	last week

README.md

Nexus

AI agent for Acute lymphocytic leukemia diagnosis (ALL) with django and tensorflow.

About

AI agent for Acute lymphocytic leukemia diagnosis with django and tensorflow

Readme

Activity

0 stars

2 watching

0 forks

Releases

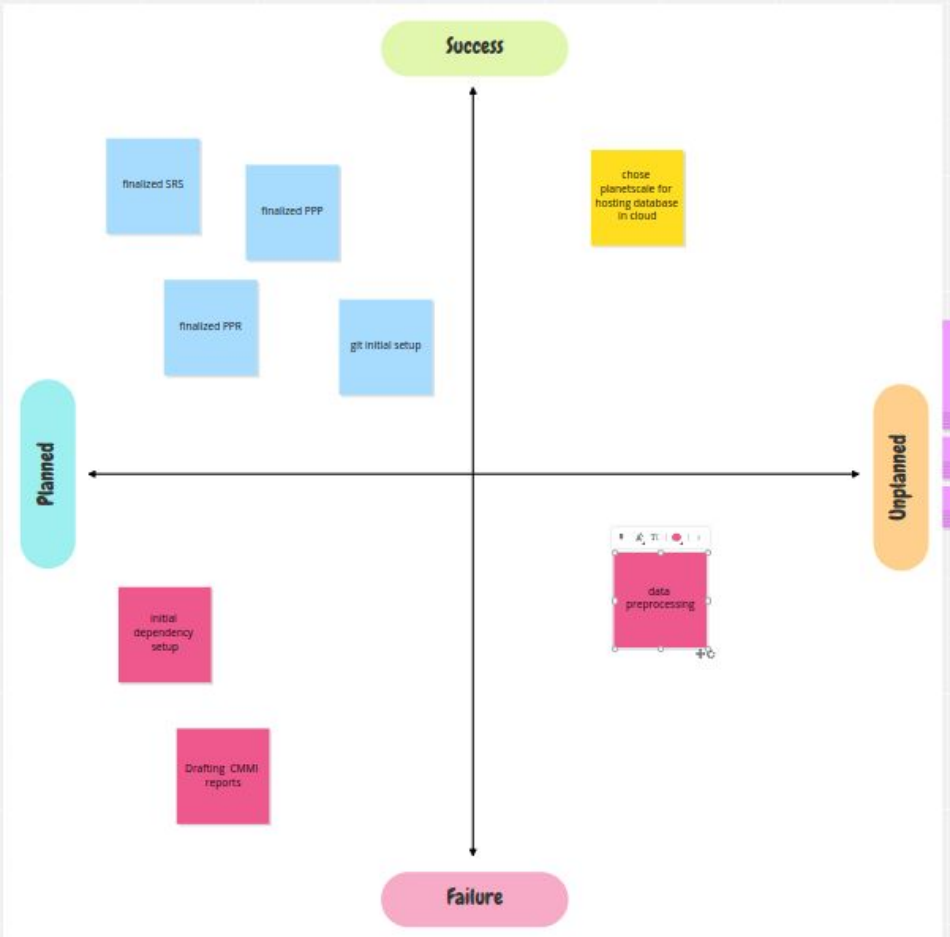No releases published
Create a new release

Packages

No packages published
Publish your first package

Contributors 4

Thlurte

ZeenathZahra Zeenath Zahra

rafahamnf Rafaha Nazeer

mohamedamajith MJM.Amajith

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