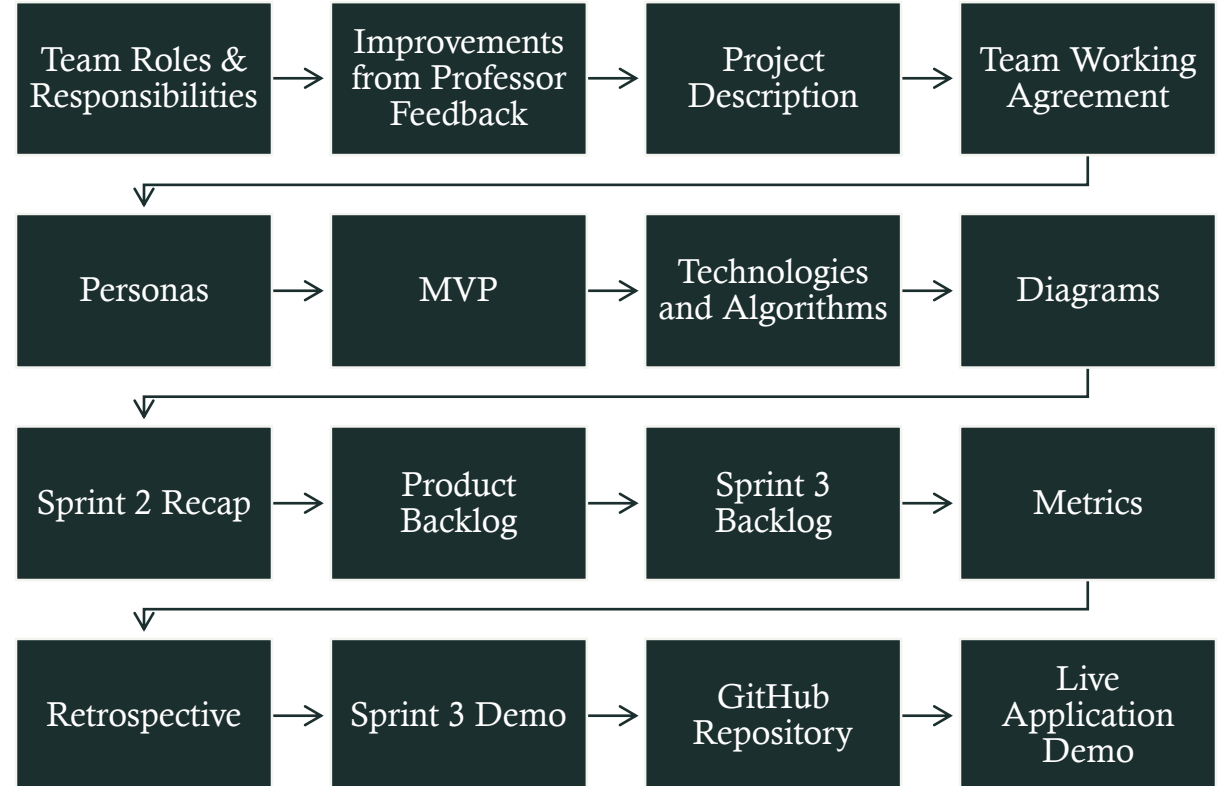


# IMAGEMEDIX

By Team 5 The  
Minions

Sprint 3

# AGENDA



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# TEAM MEMBERS – MACHINE LEARNING

**Vaishnavi  
Chandrasekar**



**Christiana Heden  
Kothuru**



**Deepika Mothkuri**



**Greeshma Kenche**



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# TEAM MEMBERS – BACKEND

**Yucong Hu**



**Lingyi Luan**



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# TEAM MEMBERS – FRONTEND

**Yash Bhanubhai Panchani**



**Rameez Ahmed Shaik**





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# IMPROVEMENTS

- Conduct proper sprint planning before starting the sprint.
- Submit the burndown chart in the correct format on the wiki page.
- Add a recap summary of the previous sprint in the presentation.
- Correct wording issues in user stories (e.g., "Appealing landing" in US-01).
- Add an average line to the team velocity chart.
- Include API slides in the sprint presentation.
- Add every improvement point mentioned in the professor's feedback to the next sprint PPT slides.



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# PROBLEM STATEMENT

- Many healthcare facilities face challenges in diagnosing pneumonia and brain tumors quickly and accurately, often due to limited access to specialists and high workloads. Current solutions typically require separate systems to analyze different types of medical images. This leads to inefficiencies in diagnosis and delays in providing critical care. There is a need for an automated system that can efficiently classify medical images and provide preliminary diagnoses to support healthcare professionals in making timely decisions.





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# PROJECT DESCRIPTI ON

Project Name:	<u>ImageMedix</u>
Team:	The Minions
Project Description:	<p>For <b>healthcare professionals</b> who need to diagnose pneumonia and brain tumors efficiently, the <b>Dual-Stage Medical Image Classification System</b> is a <b>two-step image analysis tool</b> that <b>automatically classifies medical images</b> as lung X-rays or brain MRIs and provides a diagnosis.</p> <p>Unlike <b>separate diagnostic systems</b> that handle only one type of image, our application <b>streamlines diagnosis by analyzing both image types within a single system</b>, saving time and improving diagnostic accuracy.</p>
Benefit Outcomes:	<ul style="list-style-type: none"><li>• <b>Faster Diagnosis:</b> Automates image classification and diagnosis, reducing the time needed for manual analysis.</li><li>• <b>Improved Accuracy:</b> Provides consistent and reliable preliminary diagnoses, minimizing human errors.</li><li>• <b>Resource Optimization:</b> Assists medical facilities with limited access to specialists, enabling quicker and more informed decisions.</li></ul>
<u>Github Link:</u>	<a href="https://github.com/htmw/2025S-The-Minions/wiki">https://github.com/htmw/2025S-The-Minions/wiki</a>



## Team Working Agreement - The Minions

1. **Responsibilities:**
  - Each member is responsible for completing their tasks on time and maintaining the quality of their work.
  - Members must inform the group if they encounter any blockers that could delay the project.
2. **Communication:**
  - We will use common platforms like WhatsApp, Discord, or email for quick communication and updates.
  - Weekly meetings will be scheduled to review progress and discuss tasks.
3. **Meeting Attendance:**
  - All members are expected to attend scheduled meetings unless there are unavoidable circumstances.
  - Absentees should catch up on meeting notes to stay informed.
4. **Collaboration:**
  - All members are expected to contribute to their assigned roles (frontend, backend, machine learning).
  - Teamwork will be encouraged by helping each other when someone faces challenges or needs feedback.
5. **Deliverables:**
  - Each sprint will include presentations and documentation updates as required.
  - Work will be reviewed by peers to ensure quality before submission.
6. **Code and Documentation:**
  - Code should follow basic best practices for readability and functionality.
  - Documentation (tech papers, wikis) will be updated regularly by the respective team members.
7. **Decision-Making:**
  - Major decisions will be made collectively during meetings.
  - In case of disagreements, majority voting will determine the final decision.
8. **Conflict Resolution:**
  - Conflicts will be discussed openly during meetings, with all members encouraged to share their views.
  - If unresolved, the issue will be escalated to the **professor** for guidance.

### Team Members

Chandrasekar Vaishnavi  
Hu Yucong  
Kenche Greeshma  
Kothuru Christiana Heden  
Luan Lingyi  
Mothkuri Deepika  
Panchani Yash Bhanubhai  
Shaik Rameez Ahmed

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# TEAM WORKING AGREEMENT

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# PERSONAS

## Dr. James Patel (Radiologist)

- **Age:** 45
  - **Occupation:** Senior Radiologist at a metropolitan hospital
  - **Background:** Over 20 years of experience in diagnostic imaging, specializing in lung and brain disorders. Known for mentoring junior doctors in radiology.
  - **Goals:** To reduce the time spent analyzing large volumes of medical images while maintaining high diagnostic accuracy.
  - **Challenges:** Overloaded with image analysis requests and administrative duties, leading to delays in diagnosis and increased stress.
  - **How the System Helps:** Automates initial image classification and diagnosis, allowing Dr. Patel to prioritize critical and complex cases efficiently.
- 



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# PERSONAS

## Dr. Suzen Chen (General Practitioner)

- **Age:** 38
- **Occupation:** General Practitioner at a rural healthcare clinic
- **Background:** Has served in underserved regions for over a decade, often working without the immediate support of medical specialists. Committed to improving healthcare access in remote areas.
- **Goals:** To provide fast, accurate diagnoses for patients despite limited access to specialists.
- **Challenges:** She must handle a wide variety of cases on her own, making it difficult to diagnose complex conditions such as brain tumors and pneumonia accurately.
- **How the System Helps:** The AI system offers reliable preliminary diagnoses for brain and lung conditions, helping Dr. Chen make timely and informed treatment decisions.



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# PERSONAS

## Dr. Raj Aryan (Healthcare Director)

- **Age:** 50
- **Occupation:** Director of a large hospital chain in India
- **Background:** A visionary healthcare leader who has overseen the expansion of multiple hospitals across the country. Inspired by challenges faced in rural and semi-urban healthcare delivery.
- **Goals:** To improve diagnostic efficiency, reduce patient wait times, and implement AI-based healthcare solutions across all branches.
- **Challenges:** Delays in diagnosis caused by a shortage of skilled radiologists, leading to overcrowded hospitals and slow patient care.
- **How the System Helps:** The automated system accelerates diagnosis processes across multiple hospitals, enabling faster and more efficient patient care, particularly in resource-constrained facilities.





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# MVP

Core Features	
Two-Step Image Analysis	Classifies medical images as either lung X-rays or brain MRIs.
	Provides automated diagnosis for pneumonia and brain tumors.
Automated Diagnosis System	Uses machine learning models to detect abnormalities.
	Outputs a diagnostic result with confidence scores.
Unified Platform	Supports both lung X-rays and brain MRIs in a single system.
	Eliminates the need for separate diagnostic tools.
User-Friendly Interface	Simple image upload functionality for healthcare professionals.
	Displays classification results and diagnosis in an intuitive format.
Performance Metrics	Ensures <b>accuracy</b> through AI-driven predictions.
	Optimized for <b>faster diagnosis</b> to reduce manual analysis time.
Basic Report Generation	Generates a preliminary diagnostic report.
	Includes confidence levels and possible next steps for further medical review.

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# TECHNOLOGIES

## Frontend: React.js

- Used to create a user-friendly interface that allows healthcare professionals to upload and view medical images easily.

## Backend: Node.js (API), Flask (Model Inference), MongoDB

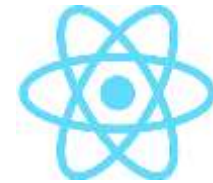
- **Node.js:** Handles API requests and manages communication between the frontend and backend services.
- **Flask:** Supports model inference by running machine learning models for image classification and diagnosis.
- **MongoDB:** Stores user data, images, and diagnostic results, enabling secure and scalable data management.

## Machine Learning:

- Built using **PyTorch** and trained on datasets for lung X-rays and brain MRIs.

## Cloud Infrastructure:

- Deployed using **AWS**.



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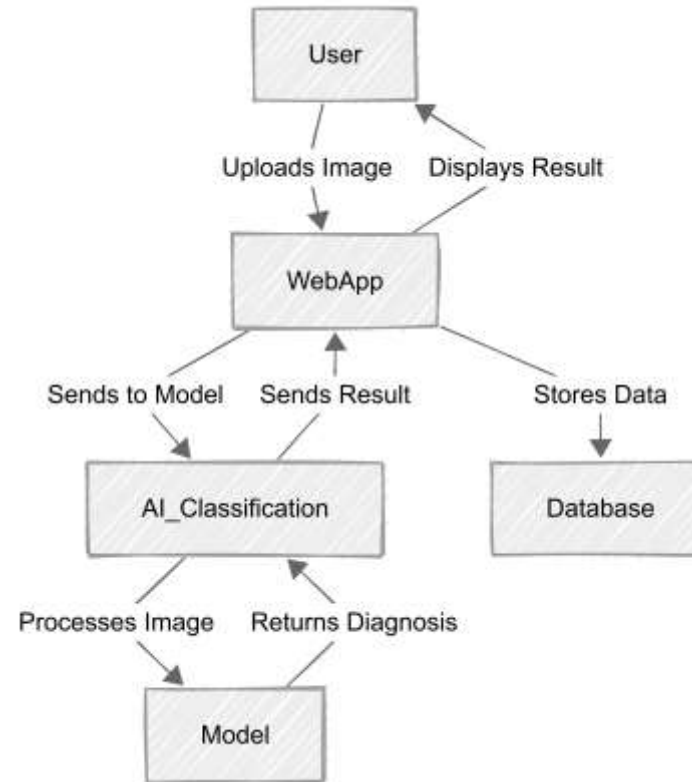
# ALGORITHMS

The system uses two core algorithms based on pre-trained deep learning models. A **ResNet** model, fine-tuned on a dataset of medical images, is used to classify whether the uploaded image is a lung X-ray or a brain MRI. Depending on the classification result, the system proceeds to a second stage. For lung X-rays, a **fine-tuned EfficientNet** model detects and classifies pneumonia into normal, viral, or bacterial categories by analyzing lung patterns. For brain MRIs, the same EfficientNet model is used to detect and classify brain tumors into glioma, meningioma, or no tumor by identifying abnormalities in brain structures. These models provide high accuracy and efficiency, ensuring reliable diagnoses for both image types.

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# ARCHITECTURE DIAGRAM

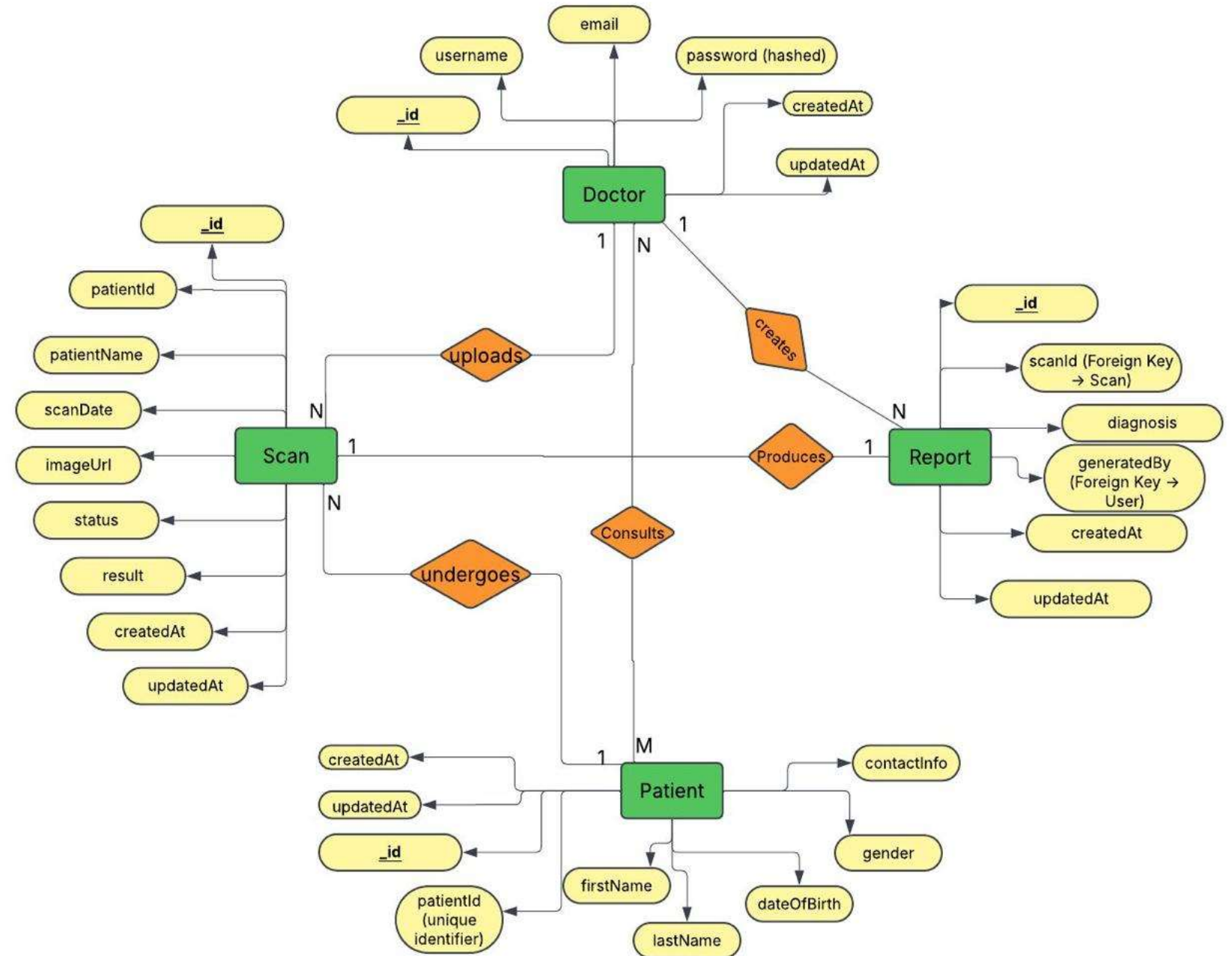


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# CONTEXT DIAGRAM

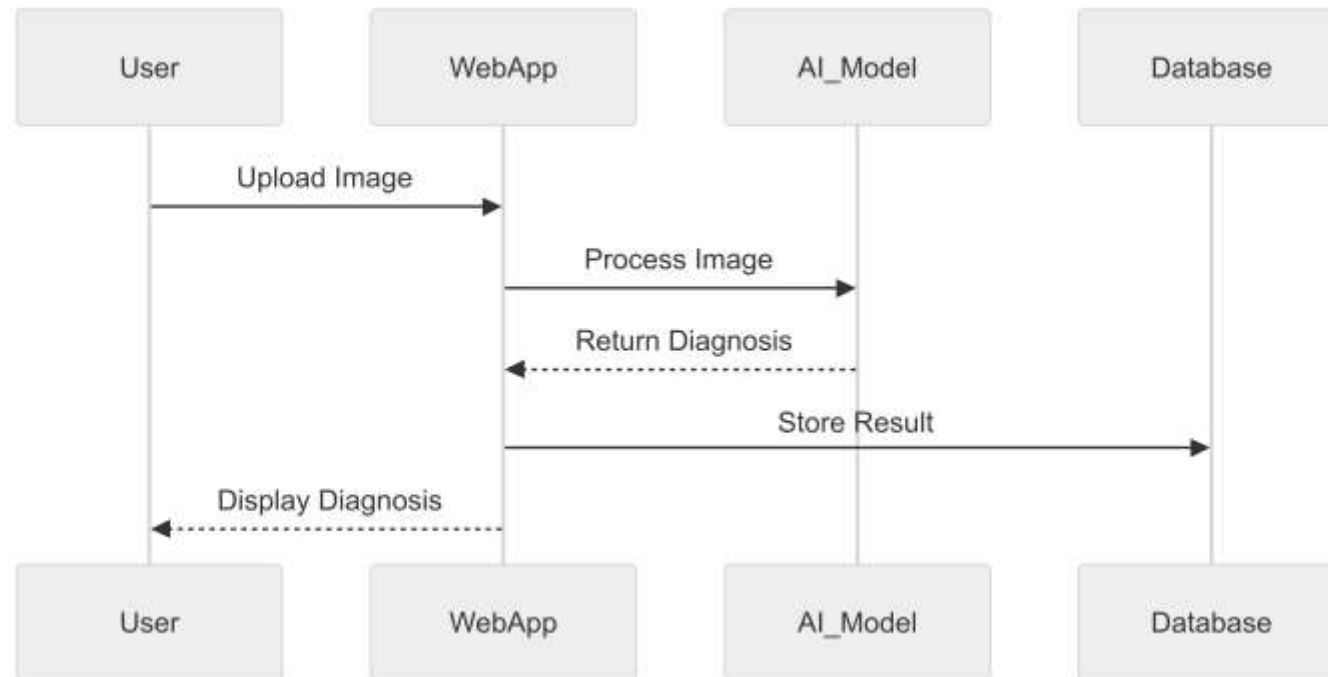


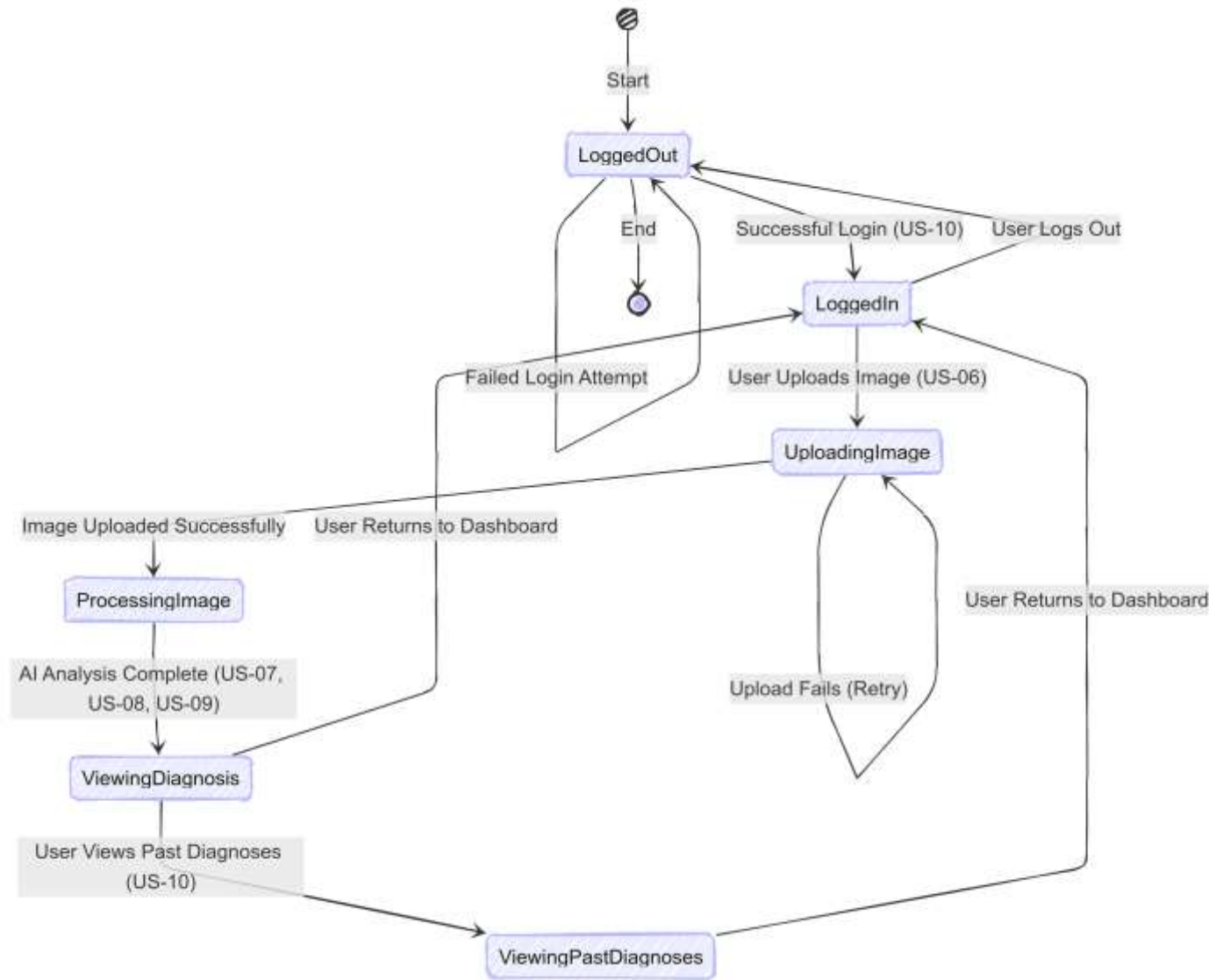
# ER DIAGRAM



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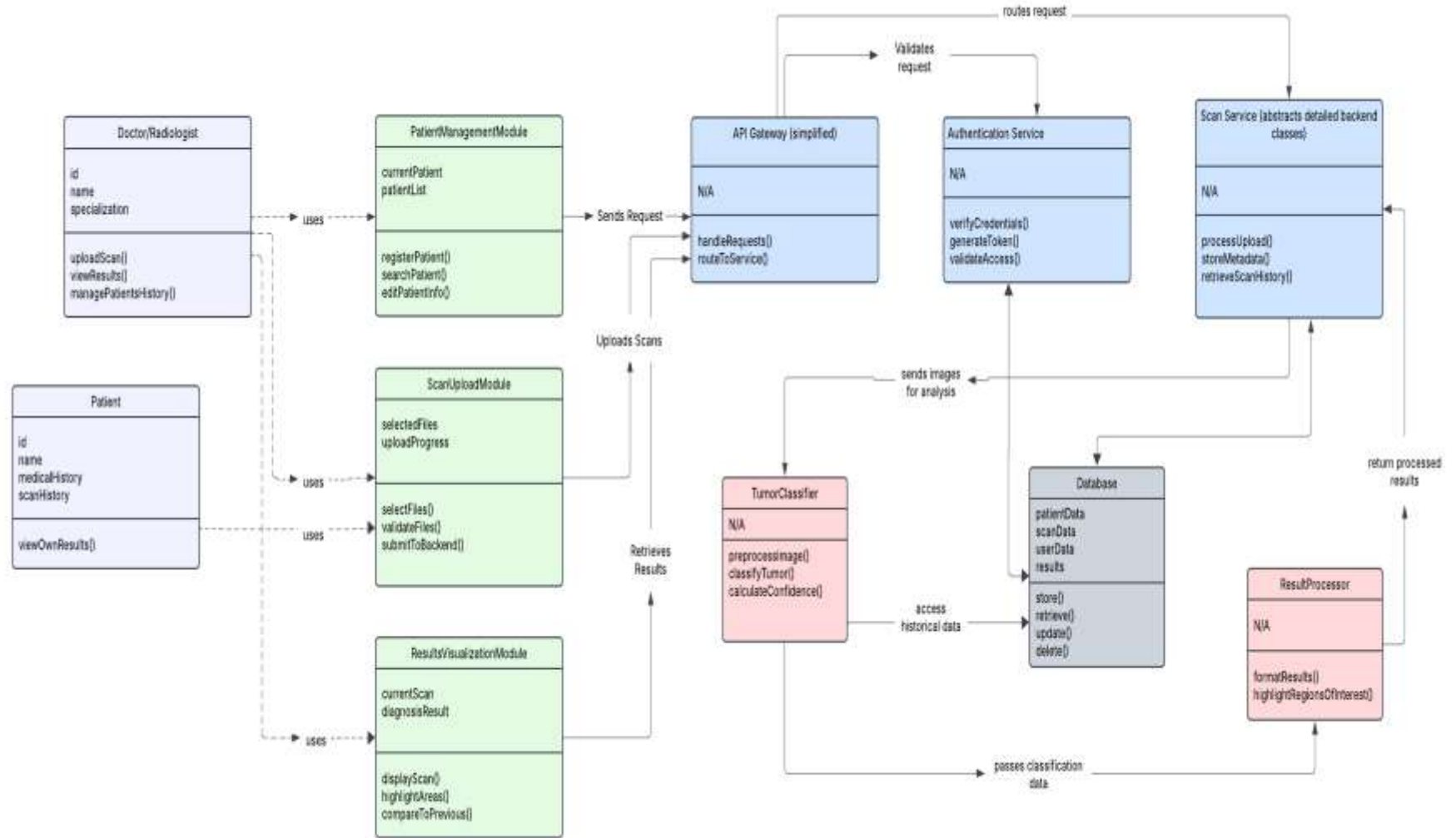
# SEQUENCE DIAGRAM





# STATE DIAGRAM

# CLASS DIAGRAM





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# SPRINT 2 RECAP

In Sprint 2, we implemented image upload, automatic AI diagnosis, and results storage features. User authentication and backend API integration were completed. Carried-over stories from Sprint 1, like static UI and simple upload, were finalized. Sprint 2 successfully delivered critical system functionality, moving closer to a fully operational platform.





# PRODUCT BACKLOG

ID	Sprint	User Story / Technical Story (TS)	Acceptance Criteria	Story Points (SP)
US-01	Sprint 1	As a visitor, I want a landing page so I can understand the system at a glance.	<ul style="list-style-type: none"><li>- Page includes: header, project description, call-to-action button, and demo preview section.</li><li>- Styling is consistent and visually engaging.</li><li>- Page renders correctly on desktop and mobile browsers.</li></ul>	3
US-02	Sprint 1	As a doctor/patient, I want an intuitive navigation menu so I can easily access different sections of the website.	<ul style="list-style-type: none"><li>- Navbar includes working links to: Home, Upload, Results, and About.</li><li>- Navbar is fixed and responsive on all devices.</li></ul>	2
US-03	Sprint 1	As a patient, I want a simple image upload interface so I can easily upload my medical images.	<ul style="list-style-type: none"><li>- Upload button allows file selection.</li><li>- Image preview shown after selection.</li><li>- Frontend only; no backend submission required.</li></ul>	3
US-04	Sprint 1	As a mobile user, I want a responsive design so I can access the site on mobile devices.	<ul style="list-style-type: none"><li>- All pages adjust layout for screen sizes (mobile, tablet, desktop).</li><li>- No overlapping or broken UI components.</li></ul>	2

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# PRODUCT BACKLOG

ID	Sprint	User Story / Technical Story (TS)	Acceptance Criteria	Story Points (SP)
US-05	Sprint 1	As a patient, I want to see a static results page so I understand how the diagnosis will be displayed.	<ul style="list-style-type: none"><li>- Results page includes placeholders for image, diagnosis summary, and doctor notes.</li><li>- Static dummy data is displayed correctly.</li></ul>	2
TS-01	Sprint 1	As a developer, I want to set up the frontend framework and project structure so that the development is scalable.	<ul style="list-style-type: none"><li>- React project is initialized.</li><li>- Routing for all planned pages is configured.</li><li>- Folder structure follows best practices.</li></ul>	2
TS-02	Sprint 1	As a developer, I want to implement UI components for buttons, inputs, and cards.	<ul style="list-style-type: none"><li>- Reusable styled components (Button, Input, Card) are created.</li><li>- Components are tested and documented.</li></ul>	3
US-06	Sprint 2	As a doctor, I want to upload an image and get it processed so I can receive a diagnosis.	<ul style="list-style-type: none"><li>- User can select and upload images.</li><li>- Image is stored in the backend database.</li><li>- Upload confirmation shown.</li></ul>	5

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# PRODUCT BACKLOG

ID	Sprint	User Story / Technical Story (TS)	Acceptance Criteria	Story Points (SP)
US-07	Sprint 2	As a doctor, I want my medical image to be analyzed automatically so I can receive a diagnosis.	<ul style="list-style-type: none"><li>- Uploaded image is sent to AI model.</li><li>- Model returns a classification (e.g., Normal, Pneumonia, Tumor).</li><li>- Backend handles processing.</li></ul>	8
US-08	Sprint 2	As a patient, I want to see my diagnosis displayed clearly so I can understand the results.	<ul style="list-style-type: none"><li>- Diagnosis result is shown on a result page.</li><li>- Diagnosis includes label and confidence score.</li><li>- UI is readable and visually clean.</li></ul>	3
US-09	Sprint 2	As a patient, I want my diagnosis results to be stored so I can access them later.	<ul style="list-style-type: none"><li>- Diagnosis results and images are saved in the database.</li><li>- Patient ID is linked to diagnosis entries.</li></ul>	5
US-10	Sprint 2	As a patient, I want basic account authentication so I can securely log in and access my past diagnoses.	<ul style="list-style-type: none"><li>- Users can register and log in.</li><li>- Passwords are encrypted.</li><li>- Auth token/session is implemented.</li><li>- Authenticated users can access their data.</li></ul>	5

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# PRODUCT BACKLOG

ID	Sprint	User Story / Technical Story (TS)	Acceptance Criteria	Story Points (SP)
TS-03	Sprint 2	As a developer, I want to set up a backend API for image processing so that the system can analyze uploaded images efficiently.	<ul style="list-style-type: none"><li>- Flask/Django API accepts image uploads.</li><li>- Routes for upload and prediction exist.</li><li>- Image is processed and response returned.</li></ul>	8
TS-04	Sprint 2	As a developer, I want to connect the frontend with the backend API so that data flows seamlessly between the client and server.	<ul style="list-style-type: none"><li>- Frontend sends requests to backend API.</li><li>- Data from API is shown on the frontend.</li><li>- Error states are handled.</li></ul>	5
US-11	Sprint 3	As a patient, I want my diagnosis report to be downloadable so I can share it with doctors.	<ul style="list-style-type: none"><li>- Diagnosis results can be exported as a downloadable PDF.</li><li>- PDF includes patient info, image, diagnosis, and date.</li></ul>	5
US-12	Sprint 3	As a patient, I want a faster processing time so I don't have to wait long for results.	<ul style="list-style-type: none"><li>- AI model processes images in under 2 seconds.</li><li>- Response time tested on at least 10 different inputs.</li></ul>	8

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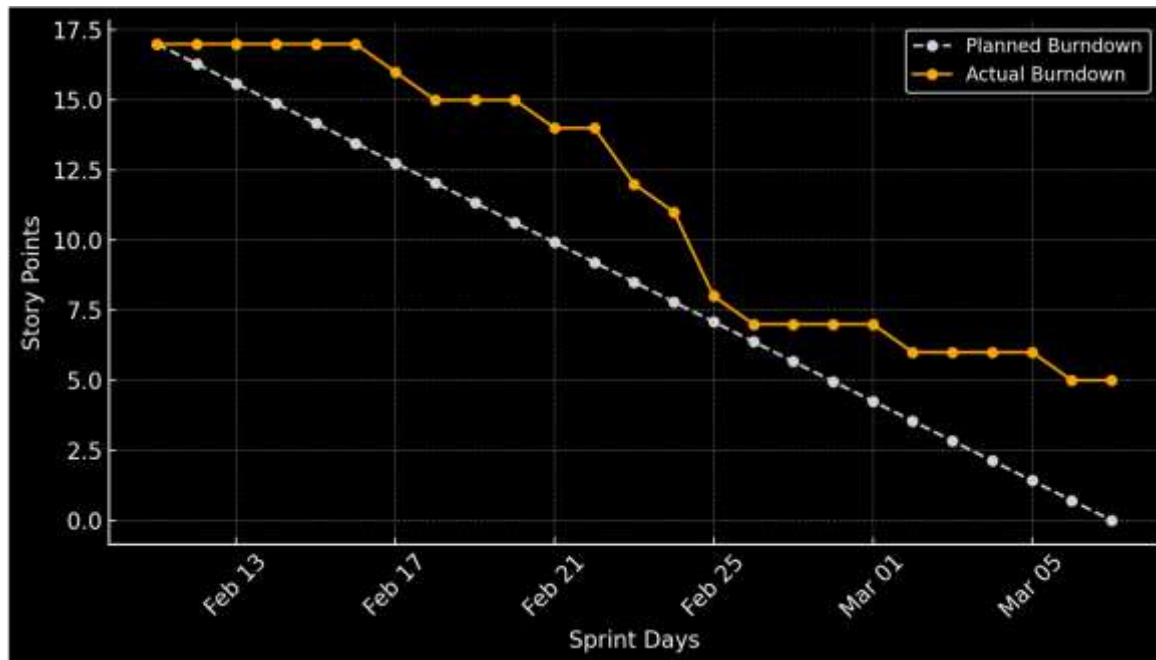
# PRODUCT BACKLOG

ID	Sprint	User Story / Technical Story (TS)	Acceptance Criteria	Story Points (SP)
US-13	Sprint 3	As a doctor, patient, or admin, I want role-based access (doctor, patient, admin) so I can have personalized features.	<ul style="list-style-type: none"><li>- Users have roles (doctor, patient, admin).</li><li>- Role-based dashboards and permissions implemented.</li><li>- Unauthorized access blocked.</li></ul>	5
US-14	Sprint 3	As a patient, I want the system to be highly accurate so I can trust the diagnosis.	<ul style="list-style-type: none"><li>- AI model reaches <math>\geq 90\%</math> accuracy on validation set.</li><li>- Accuracy is documented and verified through testing.</li></ul>	8
US-15	Sprint 3	As a patient, I want to access my health data quickly so I can get the information I need without delays.	<ul style="list-style-type: none"><li>- The system delivers data with minimal load time.</li><li>- Optimized backend queries and efficient frontend rendering.</li><li>- Performance tested across common devices and networks.</li></ul>	5
TS-05	Sprint 3	As a developer, I want to implement logging and error handling so that system failures can be monitored and resolved efficiently.	<ul style="list-style-type: none"><li>- System logs backend/frontend errors.</li><li>- Admin receives error notifications or logs are stored for debugging.</li><li>- Critical failures are caught and don't crash the app.</li></ul>	3

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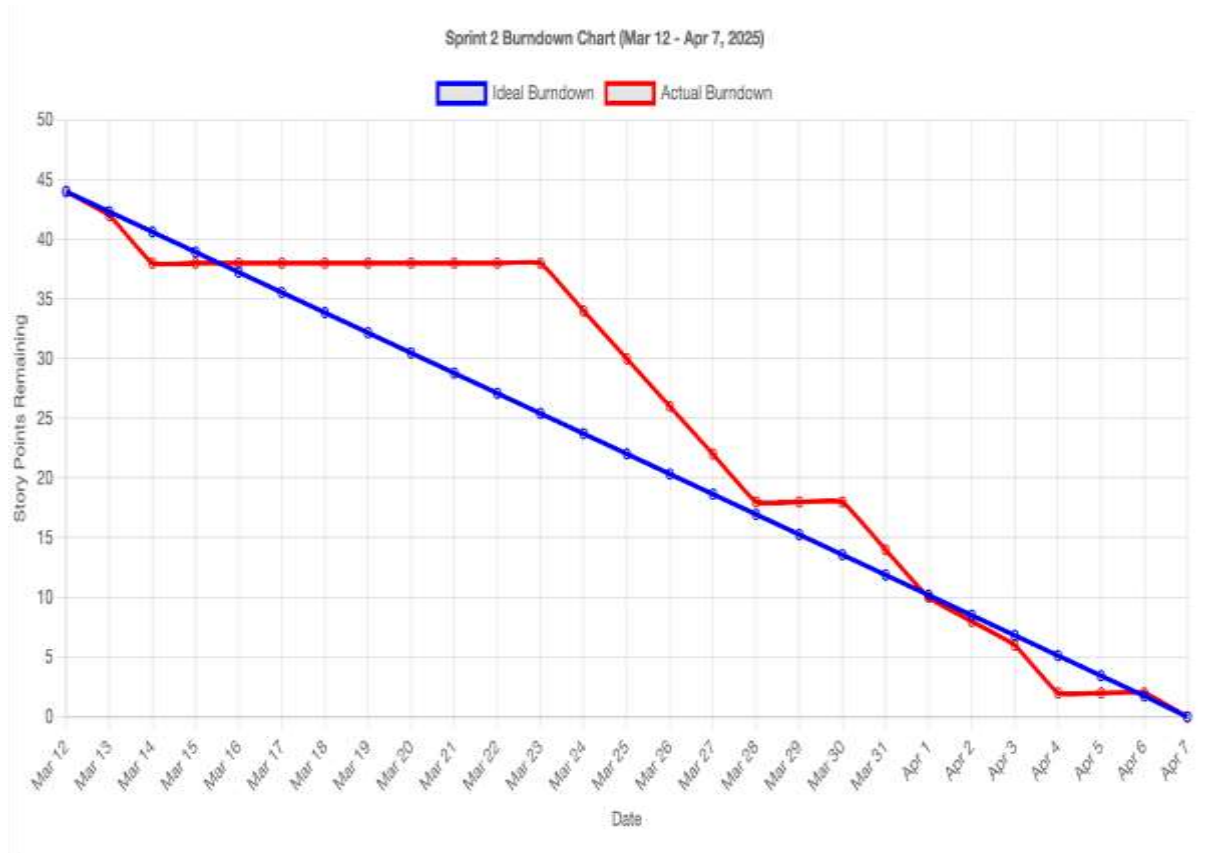
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# SPRINT SUMMARY



- **Sprint 1 Completed User Stories/Tasks:**
  - US-01: As a visitor, I want a landing page so I can understand the system at a glance. (3 SP)
  - US-02: As a doctor/patient, I want an intuitive navigation menu to access different sections. (2 SP)
  - US-03: As a patient, I want a simple image upload interface. (3 SP)
  - US-04: As a mobile user, I want a responsive design. (2 SP)
  - US-05: As a patient, I want to see a static results page. (2 SP)
  - TS-01: As a developer, I want to set up the frontend framework. (2 SP)
  - TS-02: As a developer, I want to implement reusable UI components. (3 SP)

# SPRINT SUMMARY



- **Sprint 2 Completed User Stories/Tasks:**

- US-06: As a doctor, I want to upload an image and get it processed. (5 SP)
- US-07: As a doctor, I want my medical image analyzed automatically. (8 SP)
- US-08: As a patient, I want to see my diagnosis displayed clearly. (3 SP)
- US-09: As a patient, I want my diagnosis results stored for later access. (5 SP)
- US-10: As an admin, I want basic account authentication. (5 SP)
- TS-03: As a developer, I want to set up a backend API for image processing. (8 SP)
- TS-04: As a developer, I want to connect the frontend with the backend API. (5 SP)



# SPRINT 3 BACKLOG

ID	Sprint	User Story / Technical Story (TS)	Acceptance Criteria	Story Points (SP)
US-11	Sprint 3	As a patient, I want my diagnosis report to be downloadable so I can share it with doctors.	<ul style="list-style-type: none"><li>- Diagnosis results can be exported as a downloadable PDF.</li><li>- PDF includes patient info, image, diagnosis, and date.</li></ul>	5
US-12	Sprint 3	As a researcher, I want a faster processing time so I don't have to wait long for results.	<ul style="list-style-type: none"><li>- AI model processes images in under 2 seconds.</li><li>- Response time tested on at least 10 different inputs.</li></ul>	8
US-13	Sprint 3	As a system admin, I want role-based access (doctor, patient, admin) so I can have personalized features.	<ul style="list-style-type: none"><li>- Users have roles (doctor, patient, admin).</li><li>- Role-based dashboards and permissions implemented.</li><li>- Unauthorized access blocked.</li></ul>	5
US-14	Sprint 3	As a doctor, I want the system to be highly accurate so I can trust the diagnosis.	<ul style="list-style-type: none"><li>- AI model reaches <math>\geq 90\%</math> accuracy on validation set.</li><li>- Accuracy is documented and verified through testing.</li></ul>	8
US-15	Sprint 3	As a patient, I want to access my health data quickly so I can get the information I need without delays	<ul style="list-style-type: none"><li>- The system delivers data with minimal load time.</li><li>- Optimized backend queries and efficient frontend rendering.</li><li>- Performance tested across common devices and networks.</li></ul>	5
TS-05	Sprint 3	As a developer, I want to implement logging and error handling so that system failures can be monitored and resolved efficiently.	<ul style="list-style-type: none"><li>- System logs backend/frontend errors.</li><li>- Admin receives error notifications or logs are stored for debugging.</li><li>- Critical failures are caught and don't crash the app.</li></ul>	3

---

# SPRINT 3 TEST CASES

ID	Test Case Description	Expected Result	Actual Result	Pass/Fail
US-11-TC01	Verify that diagnosis reports can be downloaded as a PDF.	PDF download prompt appears; file contains patient info, diagnosis image, diagnosis results, and date.	Diagnosis PDF downloads successfully with all required information.	Pass
US-12-TC01	Measure image processing time across multiple inputs.	Images processed in under 2 seconds for at least 10 different test inputs.	All images processed under 2 seconds during testing.	Pass
US-13-TC01	Verify that users have assigned roles (doctor, patient, admin) upon login or registration.	Role is correctly assigned and stored in the system.	User roles assigned correctly upon registration and login.	Pass
US-13-TC02	Verify role-based dashboard visibility.	Doctor sees doctor dashboard, patient sees patient dashboard, admin sees admin dashboard.	Appropriate dashboards displayed based on user role.	Pass
US-13-TC03	Attempt unauthorized access (e.g., patient tries to access admin features).	Access is denied with proper error/message.	Unauthorized access attempts were blocked with proper error messages.	Pass
US-14-TC01	Validate AI model accuracy on validation set.	Accuracy $\geq 90\%$ achieved, documented, and verified.	Model achieved 91% accuracy during validation testing.	Pass

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# SPRINT 3 TEST CASES

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ID	Test Case Description	Expected Result	Actual Result	Pass/Fail
TS-05-TC01	Trigger a backend error and check if it is logged properly.	Error is recorded in the system logs without crashing the app.	Backend errors logged successfully without system crash.	Pass
TS-05-TC02	Trigger a frontend error and ensure it is logged appropriately.	Frontend error captured and stored/logged without application crash.	Frontend errors captured and logged correctly.	Pass
TS-05-TC03	Simulate a critical failure and verify system stability and notification/logging behavior.	Critical error is caught gracefully; admin notified, or issue stored for debugging without crashing the entire system.	Critical failures handled smoothly and logged for admin review.	Pass

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# SPRINT 3 STORIES COMPLETE D

ID	User Story / Task (TS)	Story Points (SP)
US-11	As a patient, I want my diagnosis report to be downloadable so I can share it with doctors.	5
US-12	As a researcher, I want a faster processing time so I don't have to wait long for results.	8
US-13	As a system admin, I want role-based access (doctor, patient, admin) so I can have personalized features.	5
US-14	As a doctor, I want the system to be highly accurate so I can trust the diagnosis.	8
US-15	As a patient, I want to access my health data quickly so I can get the information I need without delays	5
TS-05	As a developer, I want to implement logging and error handling so that system failures can be monitored.	3

Total Story Points: 34

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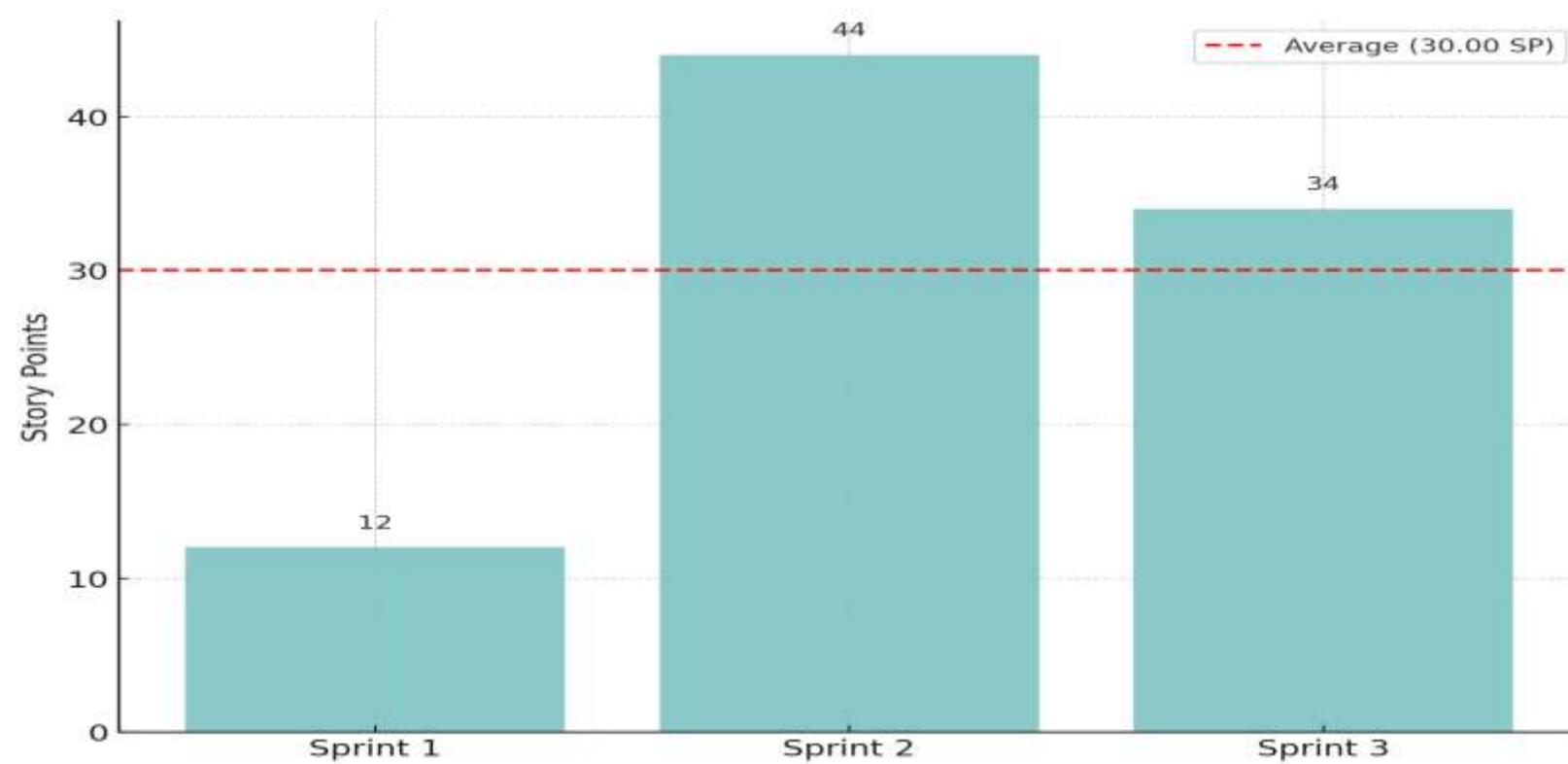
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# METRICS

- **Team Velocity**  
Total Story Points Completed: **34 SP**  
Team Velocity: **34 SP**
  - **Completed/Committed Ratio**  
Total Story Points Committed: **34 SP**  
Total Story Points Completed: **34 SP**  
Completed/Committed Ratio: **(34/34) = 100%**
  - **Average Completed/Committed Ratio:** Sprint 1: 70.59%
    - Sprint 2: 100%
    - Sprint 3: 100%
    - Average =  $(70.59 + 100 + 100) / 3 = 90.20\%$
-



# HISTORICAL TEAM VELOCITY



# BURNDOWN CHART





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# RETROSPECTIVE

## Sprint3

### What went well +

1. Team collaboration went well + 0	2. Knowledge sharing helped speed up the process + 0
3. Helped each other when someone was blocked. + 0	4. smooth integration of our individual parts + 0
5. Focus on priorities The team stayed aligned with sprint priorities and avoided distractions + 0	

### What can be improved +

1. Some tasks took longer than we planned for + 0	2. Documentation can be improved + 0
3. We didn't implement enough thorough testing + 0	4. Time management + 0
5. We didn't review our code frequently + 0	

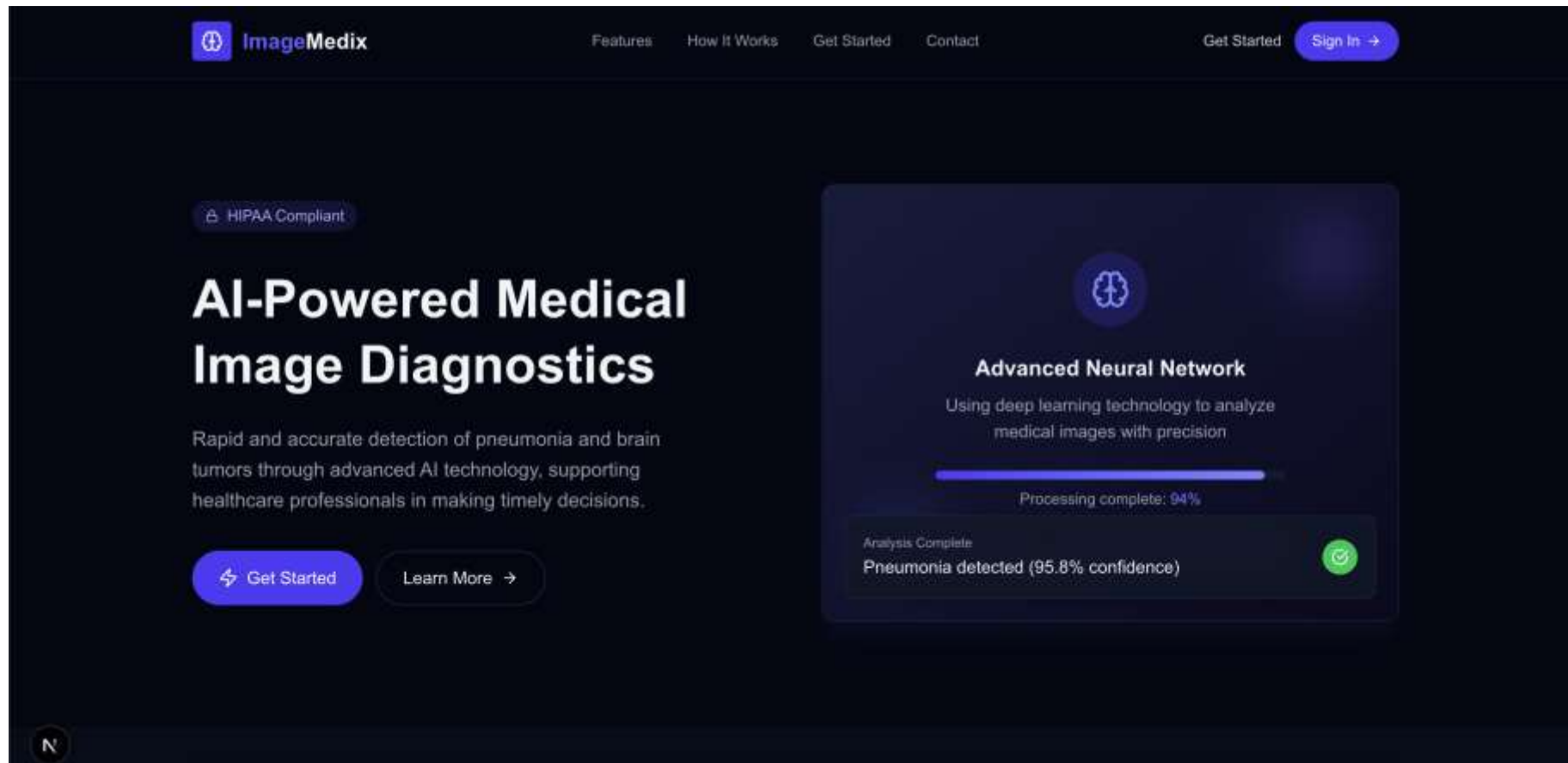
### Action Items +

1. Set strict timeboxes for meetings to keep them short and efficient. + 0	2. set up a testing framework that includes edge cases + 0
3. working on sprint planning + 0	4. maintain a clear and updated task board daily. + 0
5. Limit context switching by focusing on fewer tasks at a time + 0	6. adjust our time estimates in the future + 0

---

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# APPLICATION SCREENSHOTS






## Welcome back

Sign in to your account

Email

 Enter your email

Password

 Enter your password

☐ Remember me

[Forgot your password?](#)


Sign in

Or continue with

 Google

 GitHub

Don't have an account? [Sign up](#)

 Sign in with Google

## Choose an account

to continue to [ImageMedix](#)



Lingyi

L01Mi@outlook.com



Lingyi Luan

lingyi.luan01@gmail.com



Use another account

English (United States) ▼

[Help](#)

[Privacy](#)

[Terms](#)

## ← Scan Result Details



### Scan Information

ID: 67f44442df638f437b9340d3

Patient ID

697867

Patient Name

debjh

Scan Date

4/7/2025, 5:31:46 PM

Status

completed

### Scan Image

Brain MRI Scan

### Analysis Results

Tumor Present

No

Confidence

NaN%



Generate Report

Upload Another Scan

---

## Brain Tumor Classification Report

Generated on: 4/7/2025  
Report ID: 67f44442df638f437b9340d3

### Patient Information


Name: debjh  
ID: 697867  
Date of Birth: 4/7/2025  
Gender: unknown  
Age: N/A

Contact Information:  
Email: N/A  
Phone: N/A  
Address: N/A

### Scan Information

Scan Date: 4/7/2025  
Status: completed  
Doctor: Lingyi

---

 Brain Scan Chest X-Ray

Patient ID

jhj

Patient Name

jkjk





Drag and drop your chest X-rays here, or click to select files

Supported formats: PNG, JPG, JPEG, GIF, DICOM (max 10MB)



i1552-5775-14-3-74-f01.jpg

0.10 MB • chest scan

 Analysis Complete Pneumonia Detected Confidence: 85.0% View Report

## Diagnostic Report

### Patient Information

Name: jkjk

ID: jhj

Scan Type: Chest Scan

File: i1552-5775-14-3-74-f01.jpg

### Diagnostic Summary

Finding: **Pneumonia**

Confidence:  85.0%

Date: 07/04/2025, 20:17:34

### Detailed Report

[Download](#)

#### # RADIOLOGICAL REPORT

#### ## PATIENT INFORMATION

- \*\*Patient Name:\*\* jkjk
- \*\*Patient ID:\*\* jhj
- \*\*Exam Date:\*\* April 7, 2025 at 08:17 PM
- \*\*Exam Type:\*\* Chest X-Ray
- \*\*Referring Physician:\*\* N/A

#### ## CLINICAL INDICATION

[Download Report](#)[Close](#)



## Scan History

 Upload New Scan

### Patient ID: 0123



Uploaded on May 5, 2025, 09:42 PM

Type: brain Status: completed

Diagnosis: Normal Brain

Confidence: 71.0%

### Patient ID: 001



Uploaded on May 5, 2025, 09:51 PM

Type: chest Status: completed

Diagnosis: Normal Lungs

Confidence: 77.6%

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# KEY API ENDPOINTS

## Authentication APIs:

GET /api/auth/google

-Google OAuth login

POST /api/auth/login

-Email/password login

GET /api/auth/me

-Get current user

POST /api/auth/register

-Register new user

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# KEY API ENDPOINTS

## Scan Management APIs:

GET /api/scans	- Get all scans
POST /api/scans	- Upload new scan
GET /api/scans/:id	- Get scan by ID
GET /api/scans/:id/status	- Check analysis status
POST /api/scans/:id/report	- Generate PDF report

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# KEY API ENDPOINTS

## ML Model APIs:

POST /api/brain/analyze

- Analyze brain MRI scan

# WIKIPAGE LINK

<https://github.com/htmhw/2025S-The-Minions/wiki>

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# APPLICATION DEMO



THANK YOU

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