PROJECT PRESENTATION

-GROUP 3

PROJECT PROPOSAL:

FOR any customer or patient **WHO** requires basic medical requirements such as booking and appointment and getting over the counter medicines, **THE Healiam** is a web based application service **THAT** helps to search medicines, booking an appointment with their nearest doctor and to be able to manage their overall medical history effectively. **UNLIKE** the contemporary applications such as walgreens etc, **OUR** service has a wide range of uses enabling a customer to manage everything at one place.

Software Vision:

Once a customer logins into Healiam, they will be asked to add in their basic medical information such as their height, weight and any other medical procedures they have undergone. All of this is reflected on their profile and when they book any appointment via the app, the doctors can login from their end and look at all the patients info in advance. Apart from this, customers can order and search commonly used over the counter medicines for cough, cold etc. The app has an analytics chart that showcases the customer reviews, doctor rating and this is updated after every use. With our service we are not only reducing the time to manage customer's medical history but also reducing the long wait time for appointments. All of this with a touch of a button.

Development Platform:
Operating System: Windows, Mac OS
Environment: Pycharm,VS Code, React Native
Programming Language: Python, Java, JavaScript
Database: Firebase, MongoDB
Add-on API and frameworks: Google maps API, Firebase Cloud messaging, Firebase authentication
UI Design: Adobe XD, Figma

USER STORIES: Implemented

- **As a customer I would want to add or get a review of the medicine so that other customers can understand it in a better way**
  - There are some function such as DrugReview, postReview which are created for this purpose. Along with their actions to be perfomed.
  - We have made sure to specify that based on the drug name and the condition that is being added by each user, the filter acts accordingly and parses the information.
  - Based on which we create a HTML framework, powered by XML parsing and then in the backend we will be using python for the server side interaction.
  - Python has a wed framework Django which is used in handling HTTP requests.
  - Also certain API endpoints are created which can be used as action buttons to interact with the SQL server.

- **As a customer, I would want to be able to check the medicines for a disease so that I would know if there are any side effects for the same**

- Every customer should be able to lookup their choice of medicine.
- For this we are implementing the function in an XML file, for which firstly we build the framework using a HTML file with a search option to input and to parse.
- This input is parsed using javascript, here we are using a DOMparser to read through XML data.
- In the server-side implementation, we can use XML to search and return the data to the user.

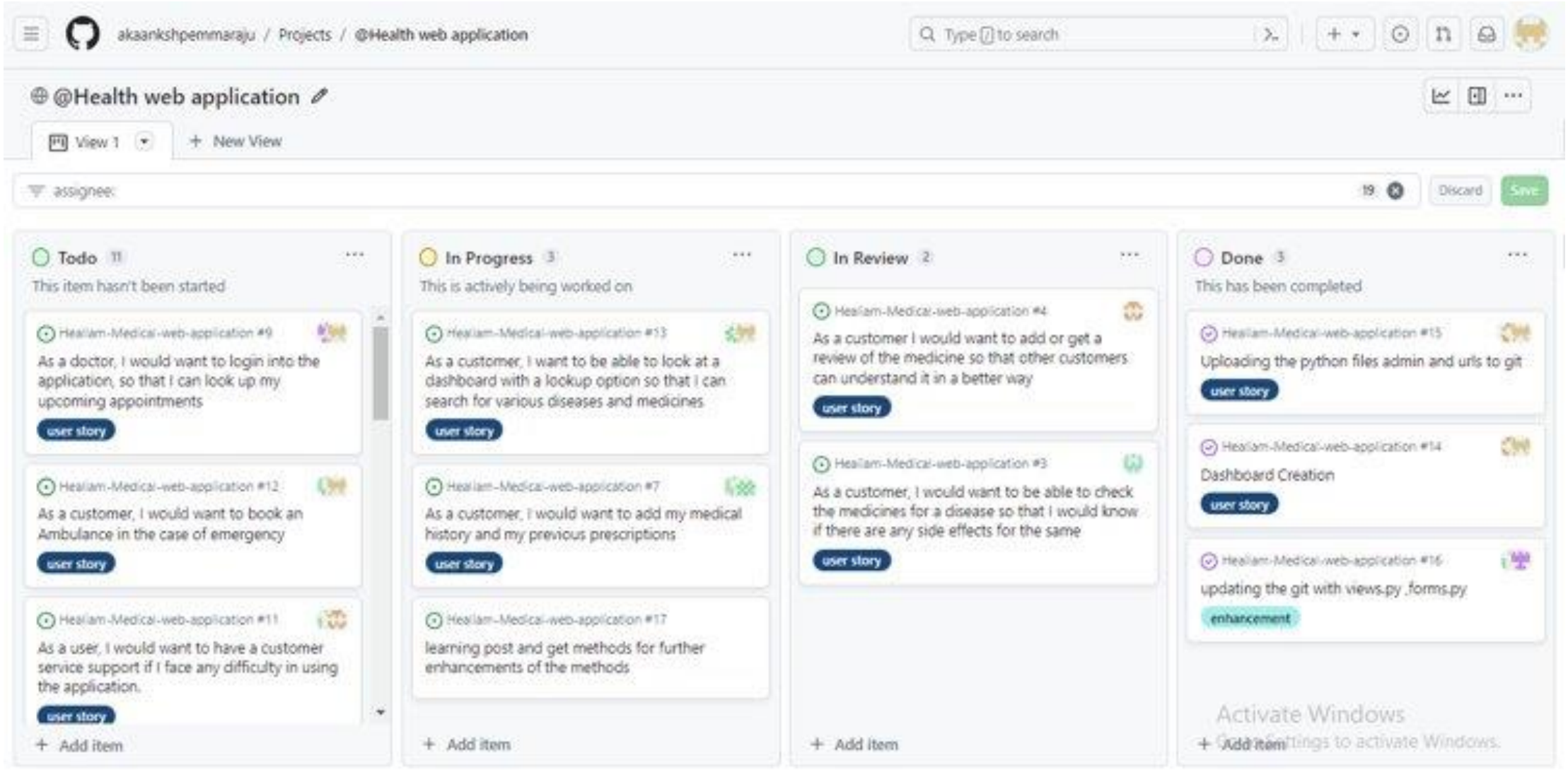
Implemented tasks and spikes:

● As a customer, I would want to be able to check the medicines for a disease so that I would know if there were any side effects for the same.

As a customer I would want to add or get a review of the medicine so that other customers can understand it in a better way
● As a customer, I want to be able to look at a dashboard with a lookup option so that I can search for various diseases and medicines.
● As a customer, I would want to add my medical history and my previous prescriptions.
● Uploading the python files admin and URLs to git
● Dashboard Creation
● Updating the git with views.py, forms.py
● Updated the git with Figma design.
● Updated the git with the model Figma prototype along with screenshots
● Implemented the login page and the action function in python views.py.
● Implemented the customer review button.
● Implemented the backend server-side communication using Django.
● Created the login, patient and drug review form.

Upcoming tasks:

- As a user, we want to have customer service support if I face any difficulty in using the application.
- As a doctor, I would want to login into the application, so that I can look up my upcoming appointments.
- As a customer, I would want to book an Ambulance in the case of an emergency. The above mentioned are the user stories that are to be implemented in the upcoming sprint. We have assigned the tasks respectively and we will be working on them


akaankshpemmaraju / Projects / @Health web application
Type / to search
@Health web application
View 1
New View
assignee:
19
Discard
Save
Todo 11
This item hasn't been started
Healam-Medical-web-application #9
As a doctor, I would want to login into the application, so that I can look up my upcoming appointments
user story
Healam-Medical-web-application #12
As a customer, I would want to book an Ambulance in the case of emergency
user story
Healam-Medical-web-application #11
As a user, I would want to have a customer service support if I face any difficulty in using the application.
user story
Add item
In Progress 3
This is actively being worked on
Healam-Medical-web-application #13
As a customer, I want to be able to look at a dashboard with a lookup option so that I can search for various diseases and medicines
user story
Healam-Medical-web-application #7
As a customer, I would want to add my medical history and my previous prescriptions
user story
Healam-Medical-web-application #17
learning post and get methods for further enhancements of the methods
Add item
In Review 2
Healam-Medical-web-application #4
As a customer I would want to add or get a review of the medicine so that other customers can understand it in a better way
user story
Healam-Medical-web-application #3
As a customer, I would want to be able to check the medicines for a disease so that I would know if there are any side effects for the same
user story
Add item
Done 3
This has been completed
Healam-Medical-web-application #15
Uploading the python files admin and urls to git
user story
Healam-Medical-web-application #14
Dashboard Creation
user story
Healam-Medical-web-application #16
updating the git with views.py ,forms.py
enhancement
Add item
Activate Windows
Go to Settings to activate Windows.

REGISTER

LOGIN

BOOK APPOINTMENT

ADD MEDICAL HISTORY

VIEW APPOINTMENTS

SEARCH MEDICINE

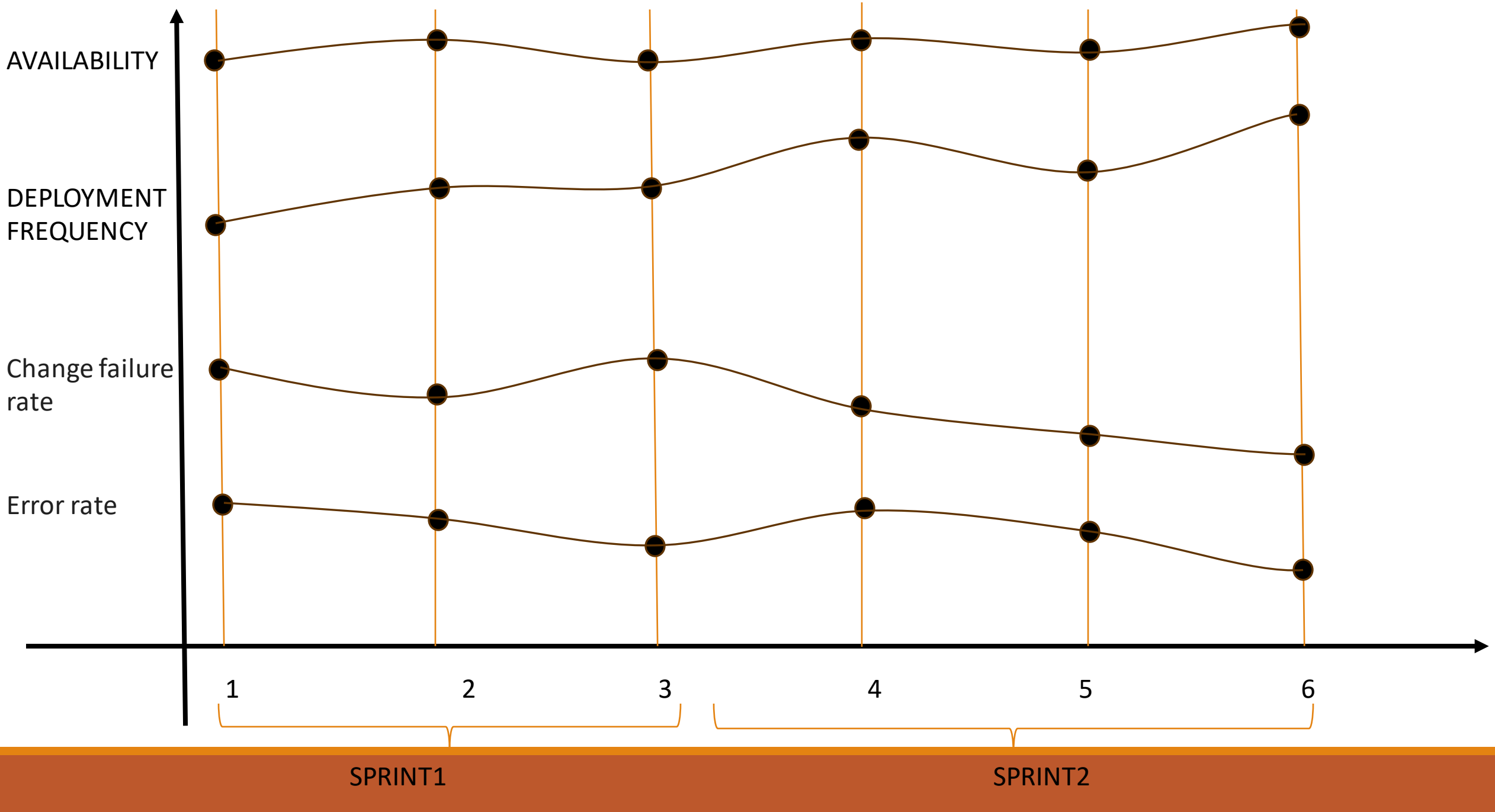
ORDER MEDICINE

BOOK AMBULANCE

WRITE REVEIW

VEIW REVIEW

RESHUDULE APPOINTMENT


AVAILABILITY
DEPLOYMENT FREQUENCY
Change failure rate
Error rate
1
2
3
4
5
6
SPRINT1
SPRINT2

Process measurements:

•**Lead time**: The time it takes to complete a change from start to finish.

•**Deployment frequency**: no of deployments per unit of time. {2 deployments per week}

•**Change failure rate/Percentage of failed deployments:** The percentage of changes that fail to deploy to production.

•**Mean time to recovery (MTTR):** The average time it takes to recover from a production failure. {25 min}

•**Patient satisfaction with the scheduling process:**The level of satisfaction of patient with the overall process of scheduling

Service measurements:

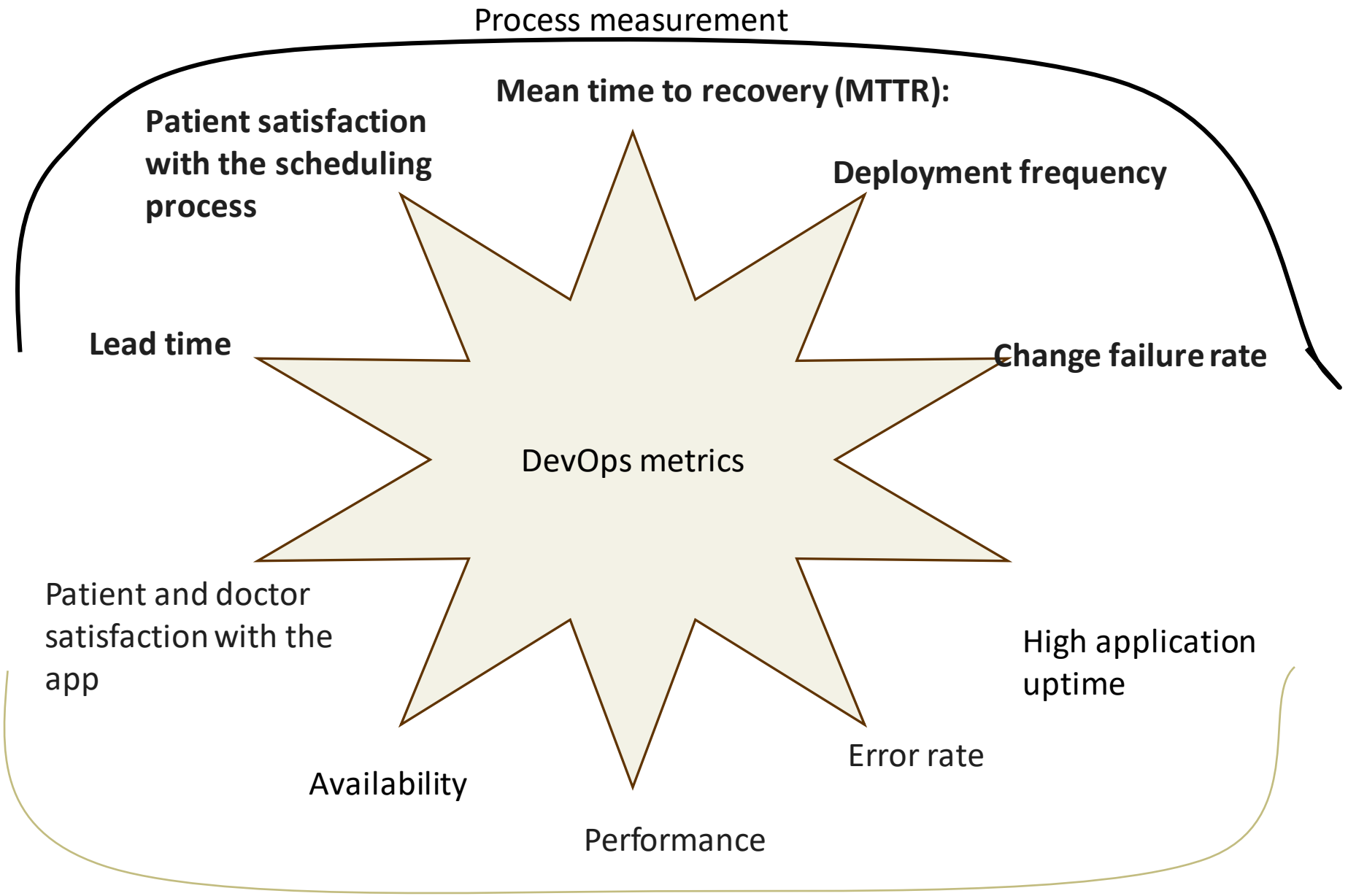
•**Availability:** The percentage of time that the service is available to users.

•**Performance:** The response time and throughput of the service.

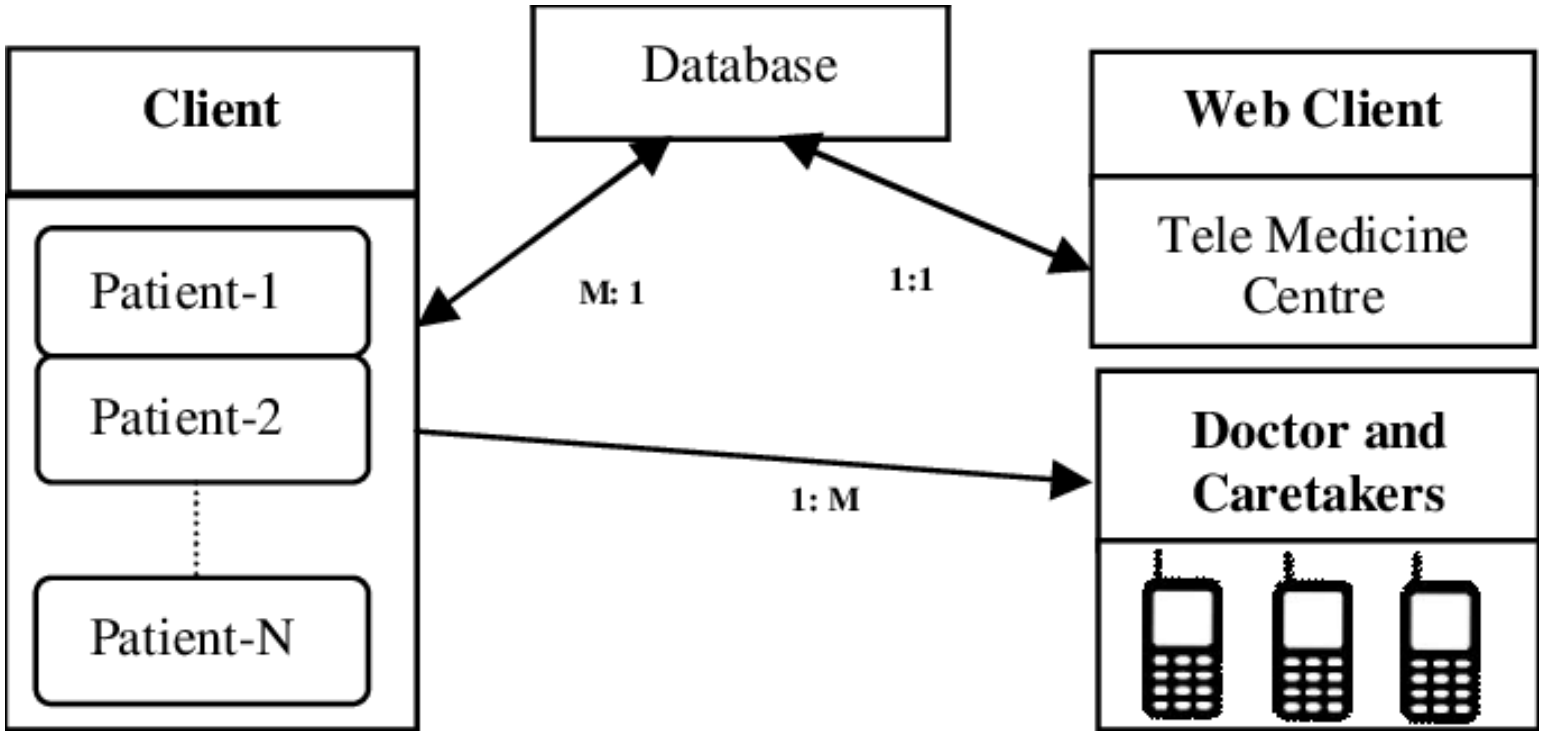
•**Error rate:** The percentage of requests that fail.

•**Patient and doctor satisfaction with the app:** The level of satisfaction of users /doctor with the service.

•**High application uptime: T**he proportion of time an application remains accessible and operational within a specific monitoring period


Process measurement
Mean time to recovery (MTTR):
Patient satisfaction with the scheduling process
Deployment frequency
Lead time
Change failure rate
DevOps metrics
Patient and doctor satisfaction with the app
High application uptime
Error rate
Availability
Performance
Service measurement

Client – Server Architecture:



API GATEWAY

USER INTERFACE

AUTHENTICATON

Application layer

FUNCTIONALITY

PAITENT SERVICE

DOCTOR SERVICE

APPPOINTMENT SERVICE

REVIEWS SERVICE

DATA ACCESS LAYER

TEAM MEMBERS:

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