

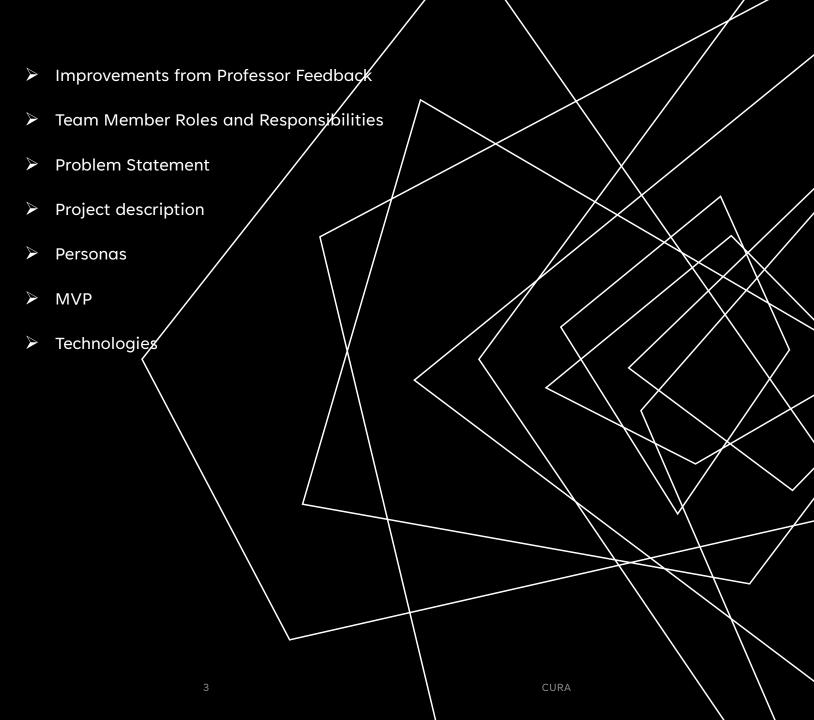
Prof: Henry Wong

AGENDA



AGENDA

- Architecture Diagram
- Sprint 2 Recap
- Product Backlog
- Sprint Backlog
- Metrics
- Retrospective
- Sprint 4



IMPROVEMENTS FROM PROFESSOR FEEDBACK

- > MVP is enhanced.
- > Personas were stated with more content.
- Architectural diagram is implemented.
- Worked on sprint and product backlog along with acceptance criteria and user stories.
- > Added more test cases and made them precise.
- Metrics were calculated as per the completed acceptance criteria and user stories.



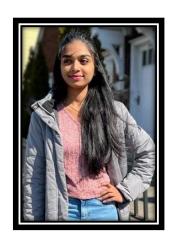
MEET OUR TEAM



SAI TEJA KORIBILLI

SCRUM MASTER

DATA BASE ADMINISTRATOR



BINDU VALISETTY

UI/UX DEVELOPER



KULDEEP KALUVALA

DEVELOPER



MOUNIKA THALLA

PROJECT MANAGER

MEET OUR TEAM



SHIVANSH TOMAR

DEVELOPER



NIKHIL

QUALITY ANALYST ENGINEER



JIGAR SHAH

DEVELOPER

PROBLEM STATEMENT

Most hospitals are still facing several challenges with Hospital Management System because some of them are still using manual processes, while those who are using computerized method are also facing the challenge of adjusting to it. Like:

- The high cost of software development and deployment.
- Complex design in terms of User Interface and User Experience (UI/UX Design)
- Fear of data security breach.
- Difficulty in migrating from manual processes, because both staff and patients are used to the manual processes and so are unable to speedily cope with the new system.
- Lack of IT-friendly medical personnel is also presenting several challenges.
- A Huge influx of patients visiting government hospitals makes the process of migrating to automated
 processes highly difficult. They do not have the patience to wait for registration and data entry and often fail
 to understand the functioning of automated processes.

PROJECT DESCRIPTION

HMS helps to automate routine tasks, optimize staff coordination, improve communication, distribute the workload, store different types of information, and provide financial and HR management.

A hospital management system (HMS) is a tool that collects data about patients, doctors, staff, hospital administrative details in one software. One of the biggest advantages of developing a hospital management system is that it makes the whole process paperless.

Finances are another essential side of the hospitals. Apart from administrative, operational, and medical services, healthcare units must cope with billing and insurance operations. Integrating a financial system into a medical organization is vital for its sustainable financial performance.



PERSONAS 1



Demographics

Name : Disha Shah Location : New York

Age: 28

Occupation: Doctor

Bio

Disha is a young doctor working at Newyork health center. On daily basis she booked for 30-40 appointments and also attends the emergency patients. She ensures every patient of her treated with correct medication and attention.

Interests

- She loves to stay updated about new medicines and procedures in the medical field.
- · She loves to attend music concerts.

Frustrations

- She attends approximately 40 patients in a day, so it is hectic to keep up with the provided schedule.
- Mixing of patient's information may happen resulting in wrong medication.

Goals

- Needs correct information of the patients receives appropriate medication and treatment.
- By using the CURA Hospital Management System, Disha is aided with correct records of the patient.
- Need to have proper inventory information, by using CURA Hospital Management System, Disha has records of the inventory.

PERSONAS 2



Bio

Mary lives in New York suffering from Asthma, Lyme diseases and she has to undergo monthly check-ups with the Doctor.

Demographics

Name : Mary

Location : New York

Age: 81

Interests

- She loves Jazz Music
- She is Die-hard of New York Knicks & frequently goes to matches to cheer them.

Frustrations

- Every time Mary visits the hospital an appointment forms has to be filled and she is allotted a different doctor.
- She has to wait for long hours to visit the doctor.
- Every week her records get updated which becomes troublesome for her to manage.

Goals

- Needs to fill up the form only once during registration on CURA which saves her time and effort from filling the form every time.
- Through CURA she can book appointment with the preferred doctor.
- CURA provide proper slots to Mary, so she does not have to wait in queues & can also choose online consultation.

PERSONAS 3



Bio

Tyler is 38 years old residence of New York working as an Admin who manages the New York Health Center in various ways. He ensures proper stock of medicines and equipment needed in the hospital.

Interests

Name Tyler Location : New York

Demographics

- Age: 38
- Occupation: Admin

- · He loves pets and frequently visits shelter care on holidays.
- · He is shutterbug and loves travelling.

Frustrations

- He manages appointments, inventory and other records on different platforms making it disordered for him.
- He has to be in the hospital to ensure the proper management of the hospital.

Goals

- · Needs a single platform where he can manage appointments, Doctor's profile and inventory.
- This problem is solved by CURA Hospital Management System so he can have records of patients, update doctor's profile and also, he allows to simplify all these tasks and remotely as well.

MINIMUM VIABLE PRODUCT



REGISTRATION

• User can register into CURA through this



LOGIN PAGE

• User can log into CURA through this



HOME

User can surf through CURA features through this



SCHEDULING

User can plan his schedule using this and work accordingly



APPOINTMENTS

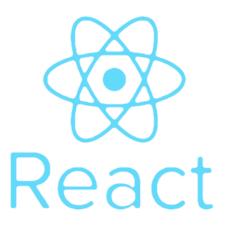
User can schedule his appointment with doctor through this











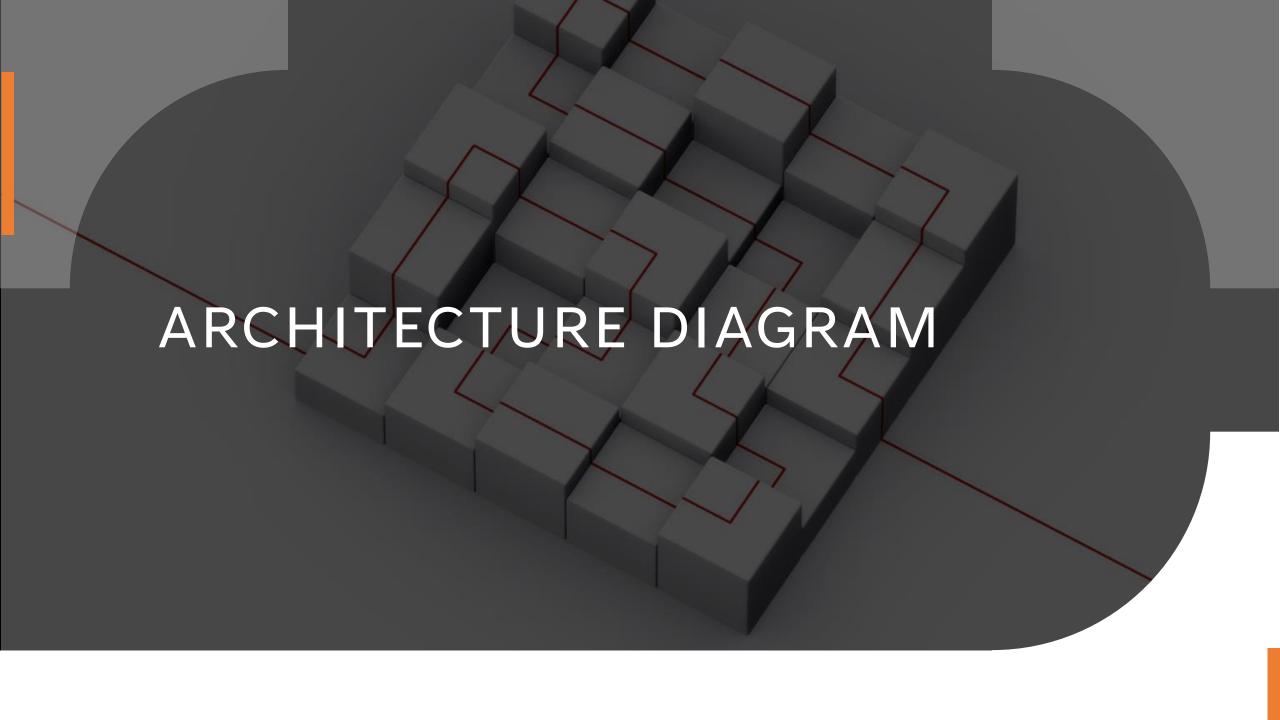


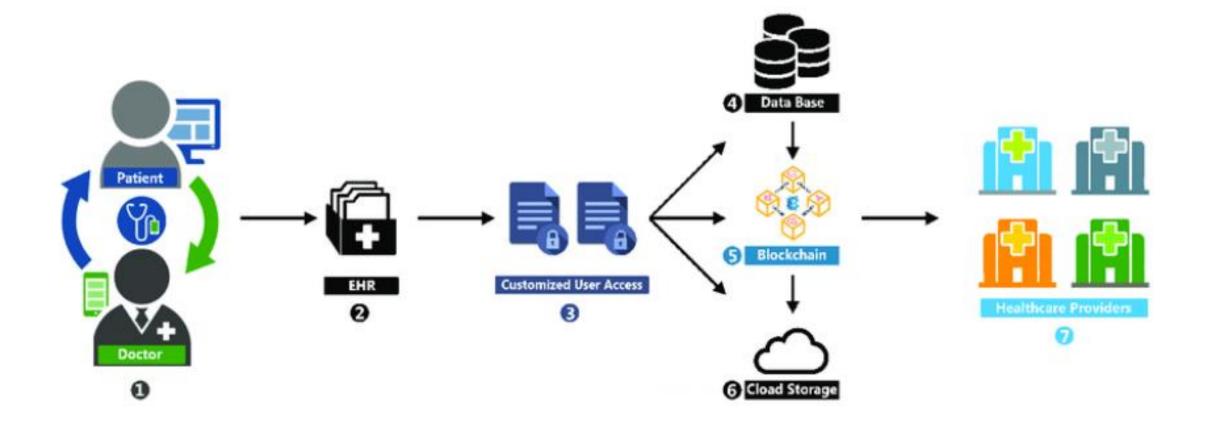
GIT HUB

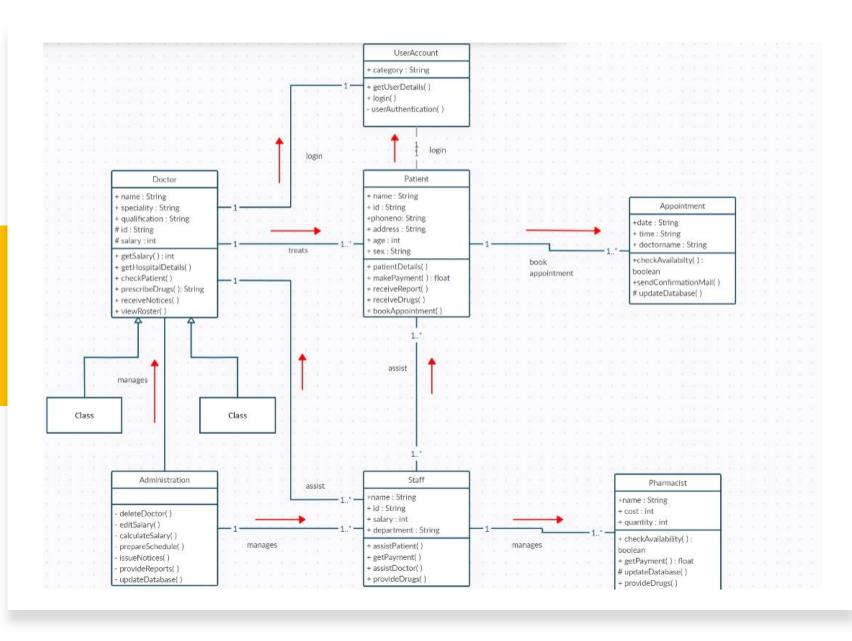




mongoDB







CLASS DIAGRAM of CURA

SPRINT 2 VS SPRINT 3

SPRINT 2

- REGISTRATION
- LOGIN
- BASIC UI

SPRINT 3

- SCHEDULE
- APPOINTMENTS
- PROFILE UPDATION



PRODUCT BACKLOG



▼ Backlog (16 issues)	000	Create sprint
CURA-10 As an admin, I want to navigate to doctor/staff/nurse section to check the log-in time whether every doctor/nurse/staff is attending the hospital on ti	Q	uickstart ×
CURA-11 As an admin/patient/doctor, I want to return to the homepage so that I can re-read the application mission statement, disclaimer, etc	TO DO	0
CURA-12 As an admin, I want to navigate to the patient/doctor/staff section and see all the particulars of that person are shown on the application without any	то ро	0
CURA-13 As a doctor, I want to see my particulars/schedule/profile on the application without any errors.	TO DO	0
CURA-14 As a Patient, I want to confirm whether my appointment with the doctor is set up or no so that I can have an idea about the appointment with the d	TO DO	0
CURA-15 As a Patient, I want to submit my symptoms/previous history documents in the portal for assessment so that I may receive a accurate determination.	TO DO	0
CURA-16 As an Inventor, I want to know whether the supplies are as per the requirement or no, so that I can re-stock them.	TO DO	0
CURA-17 As a Pathologist, I want to know whether samples of the patient are correctly entered or no, so that there is no confusion with patient's details with	TO DO	0
CURA-18 As an Admin, I want to navigate to billing section to check whether the bills produced are accurate or not.	TO DO	0
CURA-19 As a User, I want to know that I have reached the correct page to use CURA application so that I can be sure I am uploading my details to the correct.	TO DO	0
CURA-20 As a Staff, I want to check room availability and manage rooms according to requirement.	TO DO	0
CURA-21 As a Staff, I want to know the operation rooms availability and assign to the specific doctor.	TO DO	0
CURA-22 As a Staff, I want to know the ward management which helps caregivers plan, track, and manage the various departments in the hospital.	TO DO	0
CURA-23 As a User, I want to registers patient's for admittance to the hospital.	TO DO	0
CURA-24 As a Patient, I want to manages patient financial operations, including billing and insurance.	TO DO V	0
CURA-25 As a Patient, I want a module which helps with the fast registration of patients admitted to the ER.	TO DO V	0

SPRINT BACKLOG

Issue Type	Id	Name
Story	CURA-16	As an Inventor, I want to know whether the supplies are as per the requirement or no, so that I can re-stock them.
Story	CURA-18	As an Admin, I want to navigate to the billing section to check whether the bills produced are accurate or not.
Story	CURA-20	As a Staff, I want to check room availability and manage rooms according to requirements.

USER STORIES & ACCEPTANCE CRITERIA

ID	Summary	Acceptance Criteria	Place
CURA-10	As an Admin, I want to navigate to doctor/staff/nurse section to check the log-in time so that I can verify whether every doctor/nurse/staff is attending the hospital on time.	When I open the portal then in the system I can check total hour a doctor/staff/nurse spends on seeing patients and also verify doctor/staff/nurse time.	Admin
CURA-11	As an Admin/patient/doctor, I want to return to the homepage so that I can re-read the application mission statement, disclaimer etc.	When I login into application then in the system I should be easy to return homepage so it will be easy for acess the application.	Admin
CURA-12	As an Admin, I want to navigate to the patient/doctor/staff section and see all the particulars of that person are shown on the application without any glitch.	When I open the page then it should display the details of patient/doctors/staff section and confirm the page is loaded with the details	Admin
CURA-13	As a Doctor, I want to see my particulars/schedule/profile on the application without any errors.	When I open the application then as a doctor see the appointment details per day/week/month and also see the details of the patients.	Appointments
CURA-14	As a Patient, I want to confirm whether my appointment with the doctor is set up or no so that I can have an idea about the appointment with the doctor.	When I login as Patient and go to this page then see my appointment details with the doctor	Appointments
CURA-15	As a Patient, I want to submit my symptoms/previous history documents in the portal for assessment so that I may receive a accurate determination.	When I login as Patient and go to this page then see the browse option for uploading the documents and also see the page to enter the details of my previous history and symptoms.	Medical Records

USER STORIES & ACCEPTANCE CRITERIA

ID	Summary	Acceptance Criteria	Place
	As a Pathologist,	When I login as Pathologist and goto this page	
CURA-17	I want to know whether samples of the patient are correctly entered or no,	then verify the patient's samples entered coreectly or not.	Medical Records
	so that there is no confusion with patient's details with others.		
	As a Patient,		
CURA-19	I want to know that I have reached the correct page to use CURA	When I login as Patient then open this page then I should able to enter all details and my profile should	Profile
CONA-15	application so that I can be sure I am uploading my details to the correct	be saved for future purpose.	Frome
	portal.		
	As a Staff,		
CURA-21	I want to know the operation rooms availability and assign to the specific	When I login as Staff then click on this page I can able to verify availabilyof operation rooms and assigns	Rooms
	doctor.	to particular doctor .	
	As a Staff,		
CURA-22	I want to know the ward management which helps caregivers plan, track,		Management
	and manage the various departments in the hospital.	When I login as Staff then click on this page I can able to verify plans and able to track them.	
CURA-23	As a Patient,	When I login as Patient for first time then I see a link as Register Now and clicking on the link redirects	Registration
CONTA 25	I want to registers patient's for admittance to the hospital.	to the registration form page	Registration
	As a Patient,	When I open the application I will be able to see all plans included then I able to should select my insurance	
CURA-24	I want to manages patient financial operations, including billing and	plan.	Billing
	insurance.		
	As a Patient,		
CURA-25	I want a module which helps with the fast registration of patients admitted	When I login I see a Register Now link and check box admitted to ER. Enabling the check box takes to	Registration
	to the ER.	faster registration form with minimum information.	

TEST CASES

Test	User						
ID	Story ID	Test Case	Current State	Test Data	steps to follow	Excepted Result	Result
TS-10	CURA-10	navigate to doctor section	admin logged into his application	Email:- test@cura.com pwd:- Qura	admin->doctor_section	admin should be able to navigate to doctor section to check their in&out times	PASS
TS-10	CURA-10	navigate to staff section	admin logged into his application	Email:- test@cura.com pwd:- Qura	admin->staff_section	admin should be able to navigate to staff section to check their in&out times	PASS
TS-10	CURA-10	navigate to nurse section	admin logged into his application	Email:- test@cura.com pwd:- Qura	admin->nurse_section	admin should be able to navigate to nurse section to check their in&out times	PASS
TS-11	CURA-11	return to homepage	User login into the application as doctor	Email:- doc1@cura.com pwd:- doc	login->dashboard-> use back option	User should able to return back to homepage	PASS
TS-12	CURA-12	loading doctors details page	admin logged into his application	Email:- test@cura.com pwd:- Qura	admin->doctor_section- >profile	admin should be able to see all the details of doctor after navigating to doctor section	PASS
TS-12	CURA-12	loading staff details page	admin logged into his application	Email:- test@cura.com pwd:- Qura	admin->staff_section- >profile	admin should be able to see all the details of staff member after navigating to doctor section	PASS
TS-12	CURA-12	loading nurse details page	admin logged into his application	Email:- test@cura.com pwd:- Qura	admin->nurse_section- >profile	admin should be able to see all the details of nurse after navigating to doctor section	PASS
TS-13	CURA -13	loading appointment details page	_	Email:- aabc@gmail.com pwd:- abc	doctor->schedules	User should be able to see his schedules and patient details	PASS
TS-14	CURA -14	loading appointment details page	User login into the application as a patient	Email:- aabc@gmail.com pwd:- abc	patients->appointments	User should be able to see his appointment details	PASS
TS-15	CURA -15	Uploading patient datails page	User login into the application as a patient	Email:- aabc@gmail.com pwd:- abc	patients->symtoms	user should be able to upload his previous medical documents and symtoms details	PASS

TEST CASES

TS- 16	CURA - 16	Loading inventory supply details page	User logged into the application as inventor	Email:- aabc@gmail.com pwd:- abc	inventor->supply	User should be able to see all inventory supply details	PASS
TS- 17	CURA - 17	Loading patients test sample data details page	User logged into the application as pathologist	Email:- aabc@gmail.com pwd:- abc	pathologist-> sample test data	User should be able to see all patients test sample data for examining	PASS
TS- 18	CURA - 18	navigate to billing section	User logged into the application as admin	Email:- aabc@gmail.com pwd:- abc	admin->bill	User should be able to navigate to billing section to check billing data accurate or not	PASS
TS- 19	CURA - 19	editing profile data	User logged into the application as patient	Email:- aabc@gmail.com pwd:- abc	patient->profile	User should be able to edit and save his profile information	PASS
TS- 20	CURA - 20	check room availability	User logged into the application as staff	Email:- aabc@gmail.com pwd:- abc	staff->rooms	User should be able see the list of available room details	PASS
TS- 21		assigning room to the specific doctor.	User logged into the application as staff	Email:- aabc@gmail.com pwd:- abc	staff->rooms->assign	User should be able to assign room to a doctor	PASS
TS- 22	CURA - 22	loading details of members in different departments	User logged into the application as staff	Email:- aabc@gmail.com pwd:- abc	staff->departments- >profile	User should the able see different department members details	PASS
TS- 24	CURA - 24	Selecting insurance plan	User logged into the application as patient	Email:- aabc@gmail.com pwd:- abc	patient->insurance plan	User should be able to see all available insurance plans and select one of them	PASS
TS- 25	CURA - 25	loading quick registration form	User logged into the application as patient	Email:- aabc@gmail.com pwd:- abc	patient->check box- >min registration form	User should be able to click check box and should taken to minimal information registration form	PASS

Stories

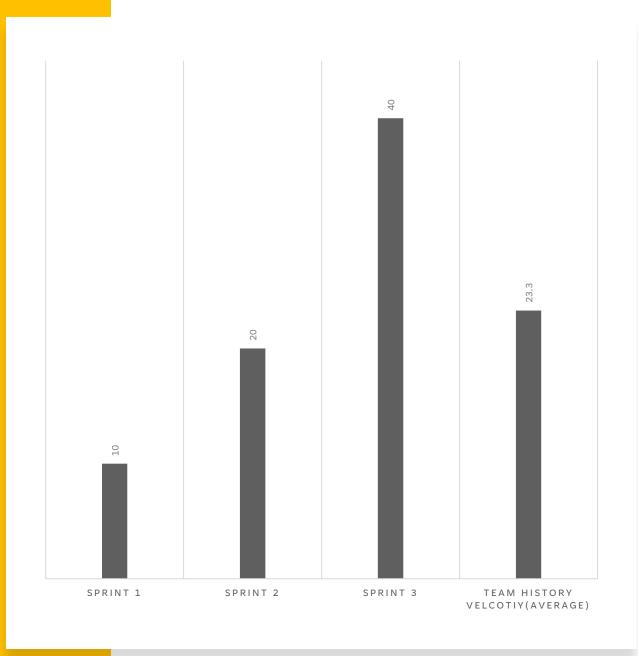
Completed

- As a patient, I want to register and sign in successfully, so that I can store all my account details.
- As a patient, I want to book an appointment.
- As a doctor, I want to go-through the appointments list.

Incomplete

- As an Inventor, I want to know whether the supplies are as per the requirement or no, so that I can re-stock them.
- ◆ As an Admin, I want to navigate to the billing section to check whether the bills produced are accurate or not.
- As a Staff, I want to check room availability and manage rooms according to requirements.

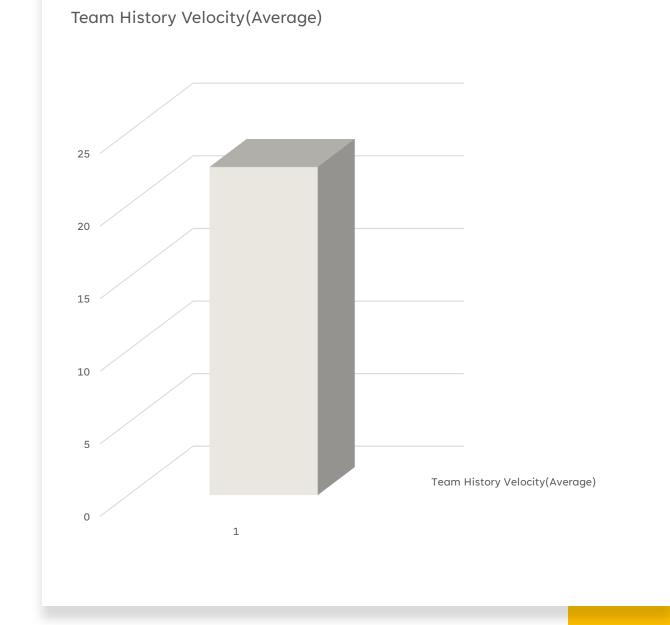
METRICS



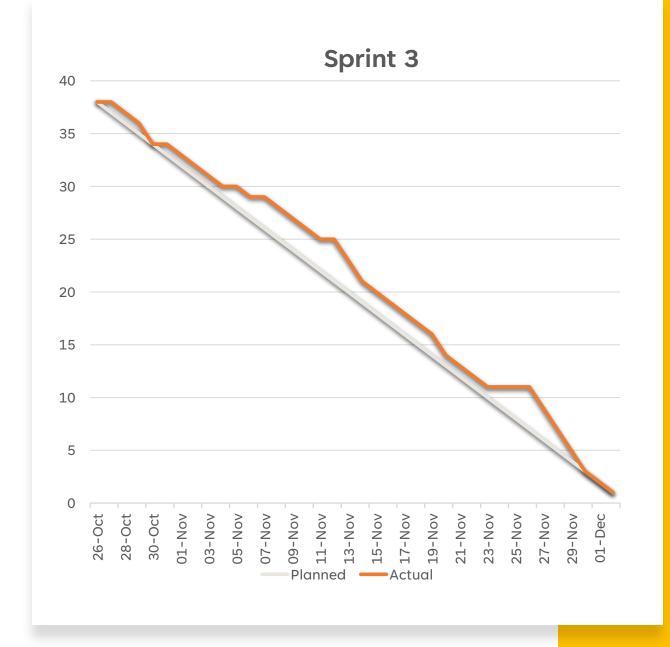
Team Velocity



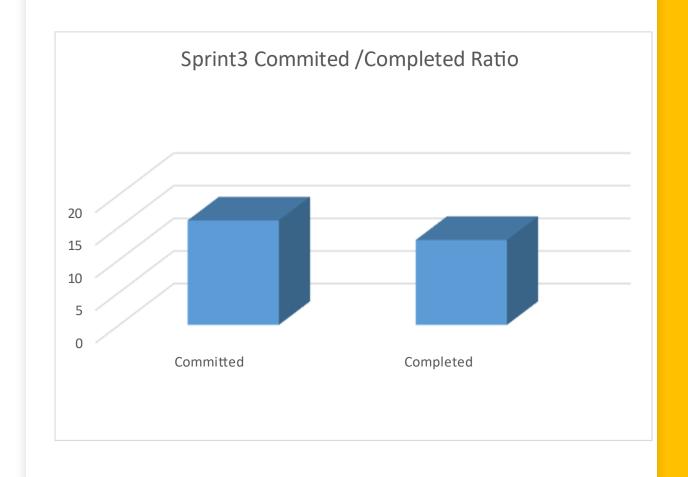
Team History Velocity



Burndown chart



COMMITTED/ COMPLETED RATIO



RETROSPECTIVES

WHAT WENT WELL

- 1. TEAM STARTED WORKING IN PAIRS TO COMPLETE THE TASK
- 2. TEAM SCHEDULED THE FREQUENT STATUS CALL FOR THE ASSIGNED USER STORIES WHICH HELPED US TO COMPLETE THE TASK EFFECTIVELY
- 3. GOOD COMMUNICATION WAS THERE IN BETWEEN THE TEAM MEMBERS.

WHAT DID NOT WENT WELL??

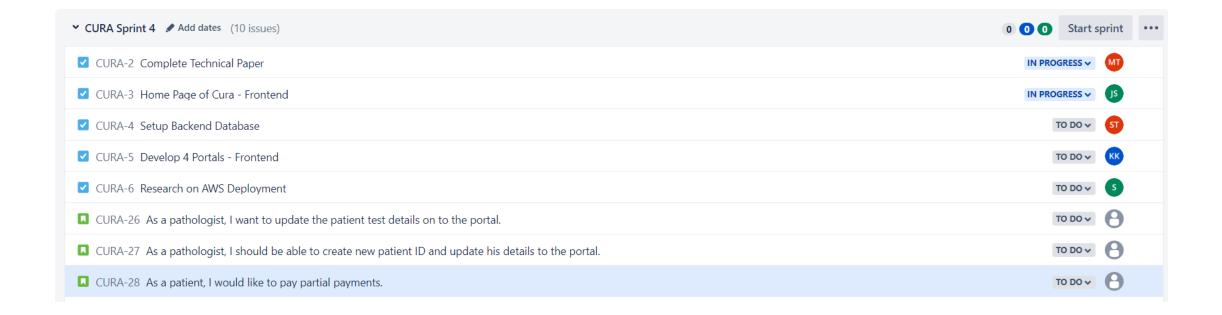
- 1. SYNCRONIZATION STILL MISSING BETWEEN TEAM MEMBERS WHICH WE FOUND IN TEAM MEETINGS.
- 2. TEAM MEMBERS SHOULD MORE RESPONSIBLE FOR THEIR ASSIGNED TASK.
- 3. TEAM SHOULD COMPLETE THEIR WORK BEFORE DUE DATE..

WHAT'S NEXT

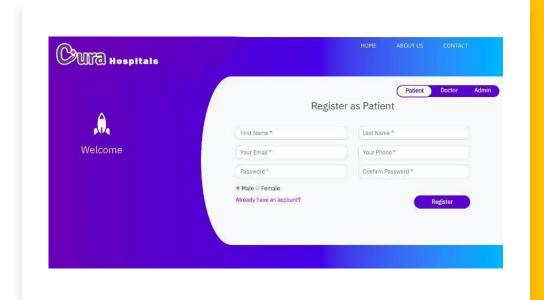
- 1. WE WILL SCHEDULE DAILY STATUS CALL.
- 2. OPTIMUM USAGE OF TEAM MEETING'S.
- 3.TEAM MEMBER SHOULD HAVE PROPER INSIGHTS OF PICKING UP THE USER STORIES.

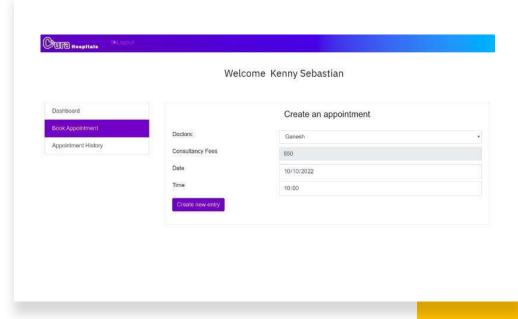
miro

SPRINT 4 - STORIES PLANNED AND COMMITTED



APPLICATION SCREENSHOT

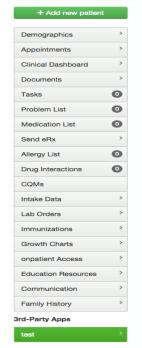




HUMAN API



what is this field?



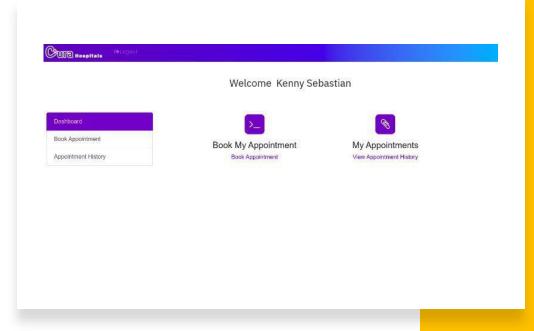


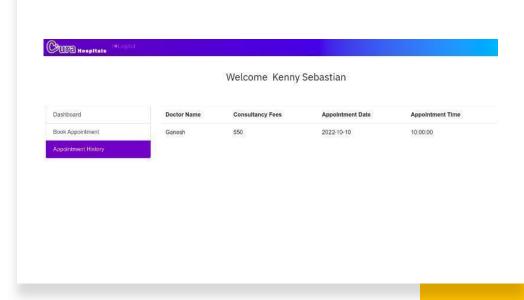
API USED

GITHUB LINK

HTTPS://GITHUB.COM/SAITEJJJ/HMS/WIKI/CURA---HMS

LIVE APPLICATION DEMO







THANK YOU

- Sai Teja Koribilli
- Jigar Shah
- Mounika Thalla
- Kuldeep Raj
- Bindu Valishetti
- Nikhil
- Shivansh Tomar

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