



AGENDA

- > Improvements from Professor Feedback
- Problem Statement
- Project description
- > Team Aggrement
- Personas
- Sprint 5 Recap
- Architecture Diagram
- Technologies
- Algorithms
- Product Backlog
- Sprint Backlog
- Metrics
- Retrospective
- Sprint 6
- Project demo
- Live Application

IMPROVEMENTS FROM PROFESSOR FEEDBACK

Feedback

- Story Points Missing.
- Mention Diagram name.
- Make theme consistent.
- Title for every slide and manage color coordination.
- Mention sprint number in sprint backlog.
- Remove place column from user stories and acceptance criteria.
- Sprint backlog should have story points.
- Edit burndown charts, it should have only completed stories.

Improvements

- Story points mentioned to every user story.
- Mentioned diagram name.
- Maintained theme consistency and color coordination.
- Architectural Diagram mentioned.
- Mentioned sprint number in sprint backlog.
- Removed place column from user stories and acceptance criteria.
- Added story points to sprint backlog.
- Edited burndown charts with completed 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

CURA 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.

TEAM WORKING AGGREMENT

TEAM AGREEMENT



Introduction

The purpose of this team working agreement is to outline standardized expectations for the Lightning Bolt project concerning, but not limited to, the working relations and group structure among team members in CS-691. The contents herein addressed are:

- 1. Communication
- 2. Decision making
- 3. Responsibility
- 4. Participation
- 5. Leadership
- 6. Consequences

The members of the team are:

- 1. Sai Teja Korjbilli,
- 2. Jigar J Shah
- 3. Shivansh Tomar
- 4. Nikhil Kasireddy
- 5. Mounika Krishna Thalla
- 6. Kuldeep Raj Kaluvala
- 7.Bindu Valishetti

Communication:

Communication between team members shall be through e-mail, phone conversations, and weekly team meetings. Members will check their e-mail once daily and reply when requested or necessary. Team meetings are scheduled every Tuesday evening at 6:00 pm. If a member cannot attend a team meeting, they must communicate to all members 24 hours prior to the meeting. Failure to communicate their absence will result in a strik (see "Consequences" below).

Decision Making

All ideas and directions will be kept open until a final consensus decision is made by the group. Final ideas and decisions will be adopted in one of two ways: secret ballot or coin toss. Failure to communicate or acting on a decision not sanctioned by the entire team, will result in one strike. (Please refer to "Consequences" section.)

Responsibility

Members of the team are expected to complete all tasks assigned to them by the due date. If unforeseen obstacles prevent task completion, this will be handled accordingly. Difficult or unclear responsibilities must be voiced to other team members swiftly so that they can be clarified or redefined.

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Leadership is strictly informal with a democratic debate system used for decision-making. A primary meeting facilitator will be assigned prior to each meeting. The facilitator will be responsible for compiling an agenda and directing the smooth flow of the meeting. Natural leadership will evolve over time, and this working agreement shall be edited to accommodate such future logistical chances.

Group Progress

The group will create a timeline that includes dates for expected completion of work and other group objectives. This timeline will help the group to determine progress and how rules should be enforced regarding participation of each group member.

onsequences

Consequences will be based on a strike program with three strikes resulting in a probationary status and four strikes resulting in removal from the team. While on probation the team member must demonstrate his/her ongoing commitment to the team by writing an explanatory paper and requesting reinstatement to the team.

Strikes may be given for any one of the following reasons:

- 1. Missed meetings without either communication 24 hours prior or a legitimate conflict.
- 2. Failure to abide by the rules presented in this working agreement.
- 3. Low commitment and substandard work presented in assigned tasks.

Summary

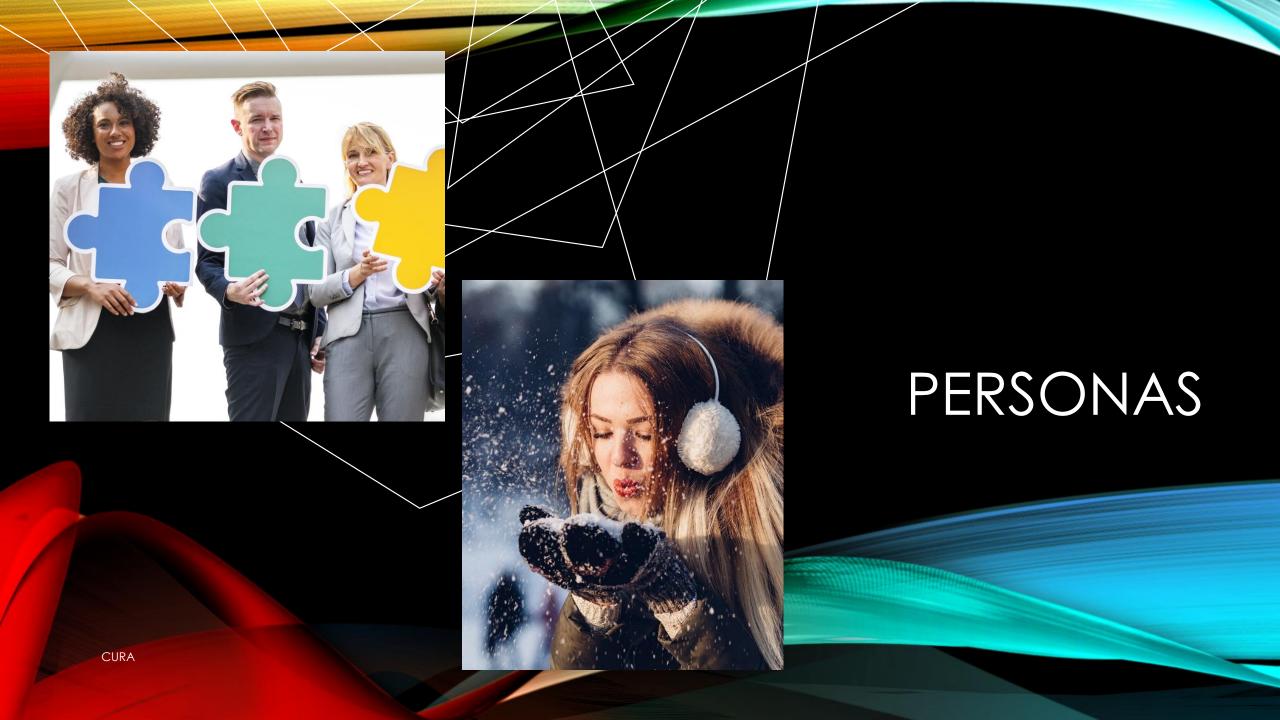
The ideas and requirements set forth in this working agreement are established to provide the best possible working conditions for completing the assigned project.

If you have any questions concerning this memo, or the contents therein, please direct them to

the group secretary:

Sai Teja Koribilli

Sk30386n@pace.edu (775) 467-8291



PERSONA 1



<u>Demographics</u>

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.

PERSONA 2



Demographics
Name: Mary
Location: New York
Age: 81

Bio

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

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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.

PERSONA 3



Demographics

Name:Tyler

Location: New York

Age:38

Occupation : Admin

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

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

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

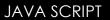
User can plan his schedule using this and work accordingly



APPOINTMENTS

User can schedule his appointment with doctor through this





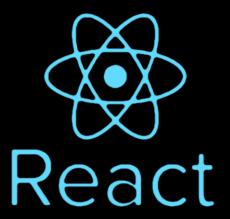


CUCUMBER











GIT HUB





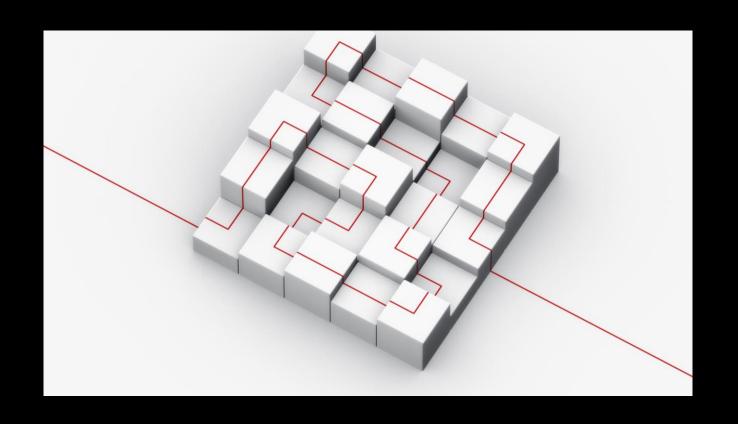
ALGORITHM

 The proposed system has five modules for doctors, admin, pathologist, inventor and patients providing facilities of appointments schedules, payment, viewing online information, register on hospital website.
 The whole process of information sharing and processing in this systems is automated through Decision Tree ID3 algorithm

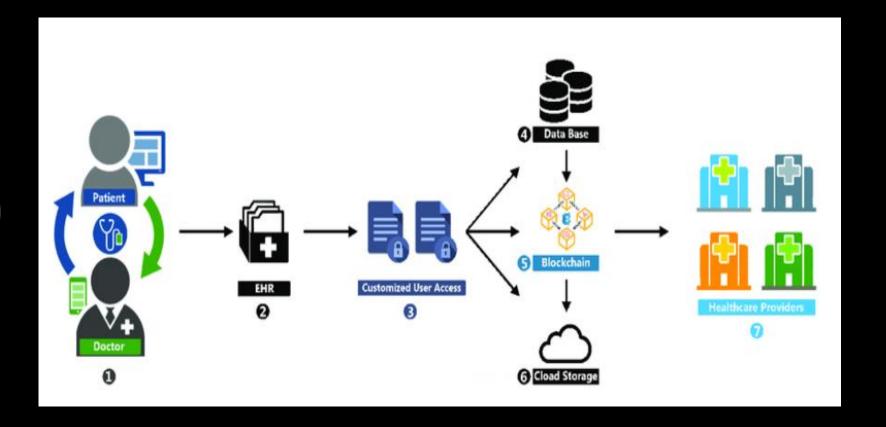
What is ID3 Algorithm?

- ID3 stands for Iterative Dichotomiser 3 and is named such because the algorithm iteratively (repeatedly) dichotomizes (divides) features into two or more groups at each step.
- ID3 uses a top-down greedy approach to build a decision tree. In simple words, the top-down approach means that we start building the tree from the top and the greedy approach means that at each iteration we select the best feature at the present moment to create a node. Attempts to create the smallest possible decision tree.

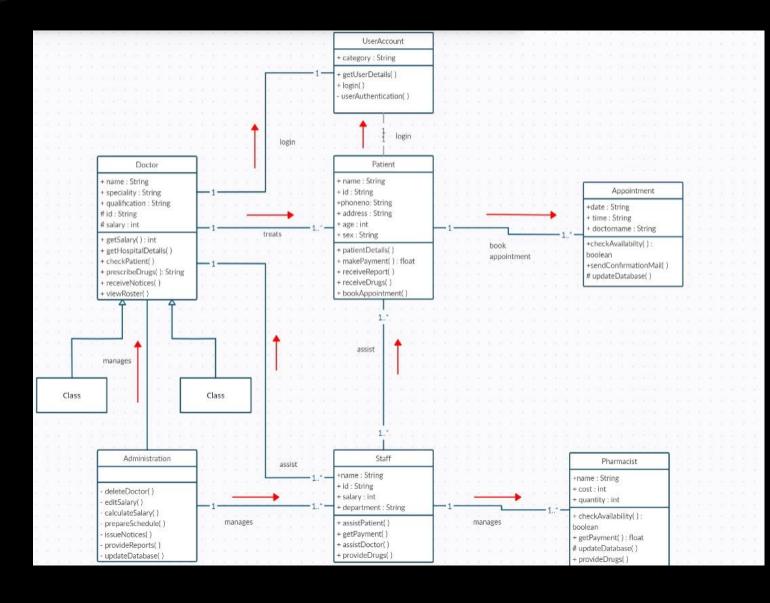
ARCHITECTURAL DIAGRAM



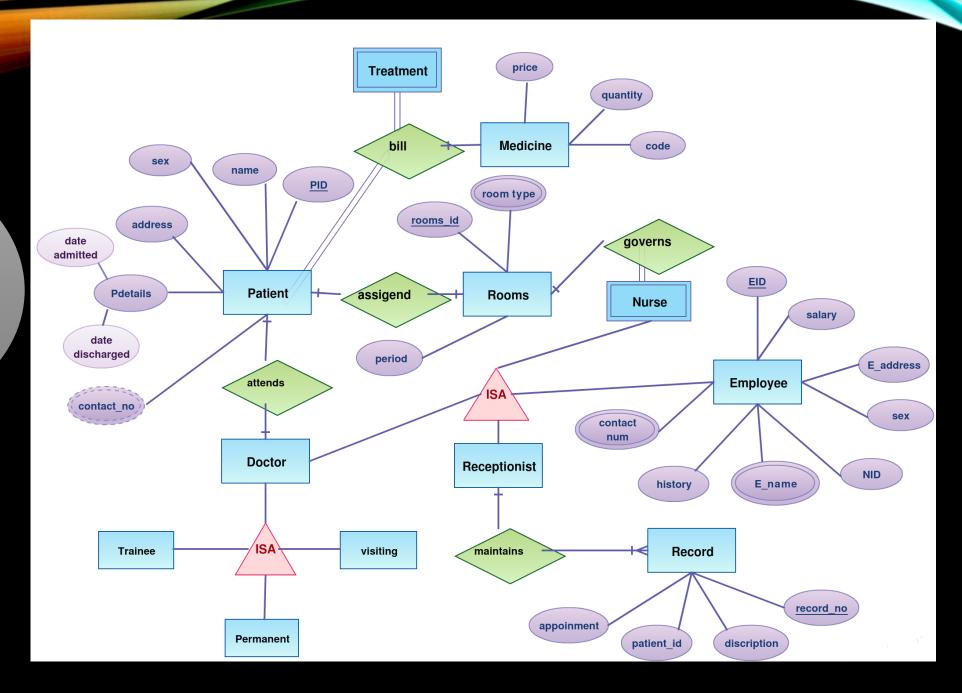
CONCEPTUAL ARCHITECTURAL DIAGRAM

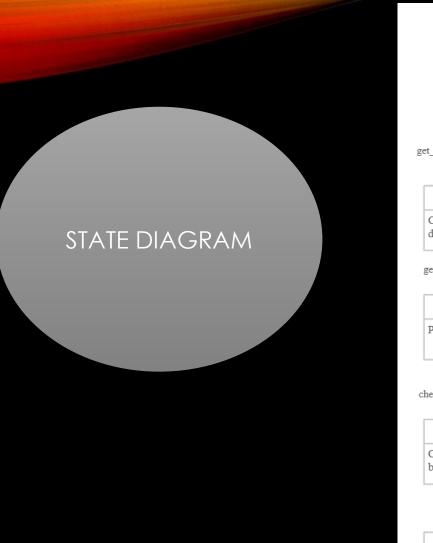


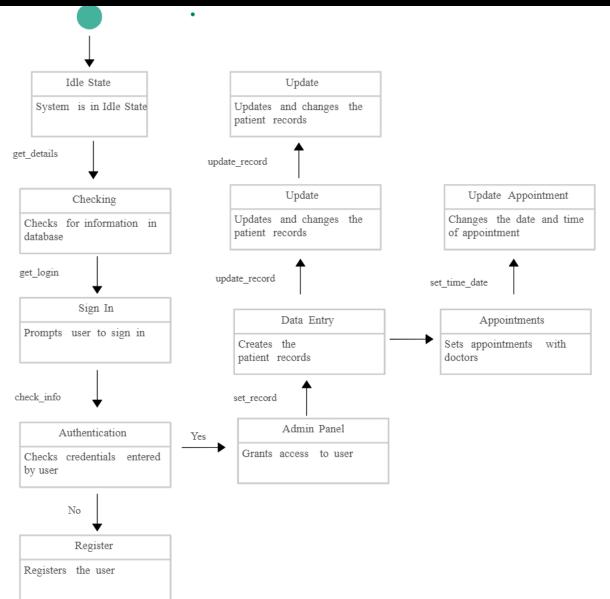




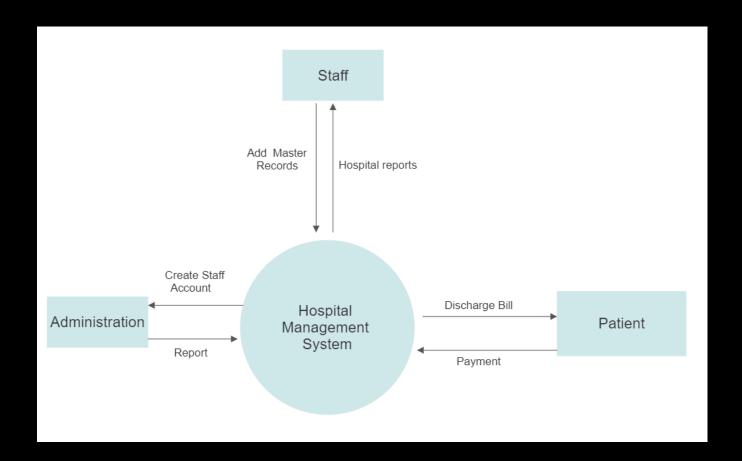
ER DIAGRAM













SPRINT 4 VS SPRINT 5

SPRINT 4

- SCHDULING THE APPOINTMENTS.
- MULTIPLE FEATURES LIKE ADDING DATA.
- CREATED PROPER UI ALONG WITH UPDATING THE FEATURES TO THE RESPECTIVE ROLES ACCORDINGLY.

SPRINT 5

- SURFING THROUGH THE OPTIONS ACOORDING TO THE ROLE OF THE PERSON USING THE APPLICATION.
- UPDATING THE CURRENT PROFILE STATUS BY UPLAODING FILES.



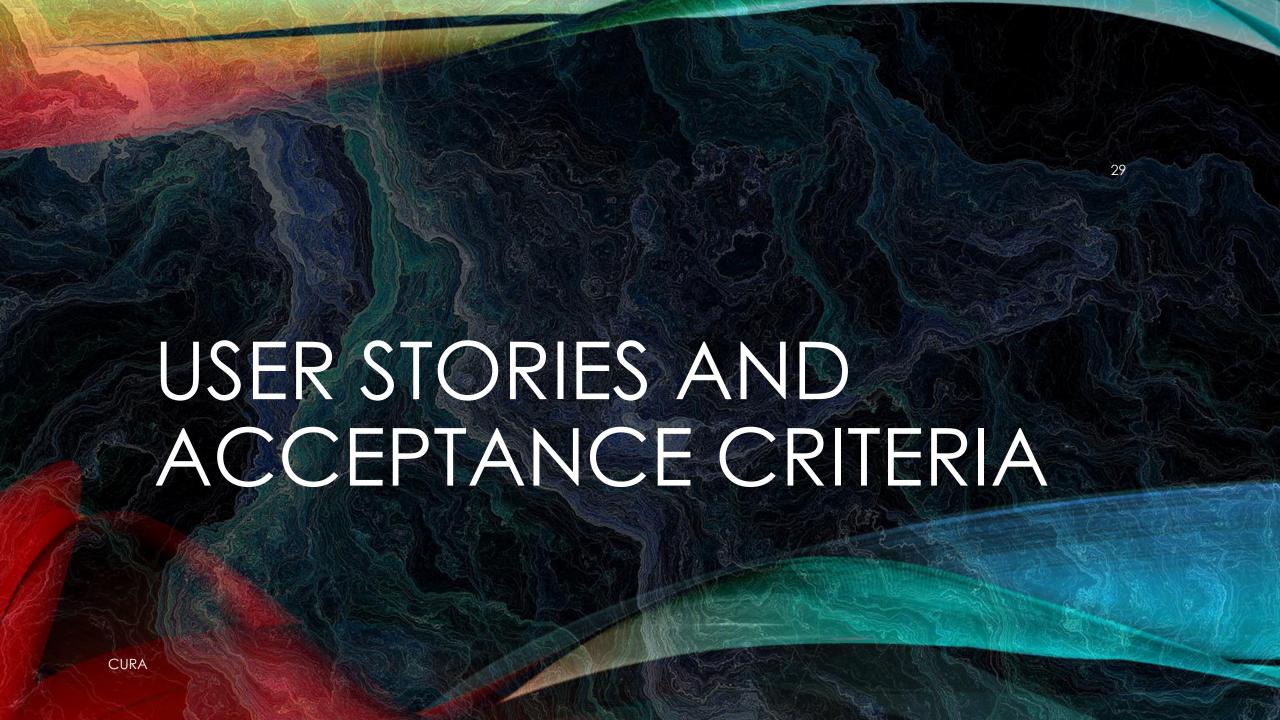
PRODUCT BACKLOG

Issue Type	ID	Name
Story	CURA-29	As a Doctor, I want to see my particulars/schedule/profile on the application so that I can plan my duties at hospital .
Story	CURA-30	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 my appointment with doctor.
Story	CURA-31	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.
Story	CURA-32	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-33	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 others.
Story	CURA-34	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.
Story	CURA-36	As a Staff, I want to check room availability and manage rooms according to requirement so that it will be very helpful to doctors.
Story	CURA-37	As a Patient, I want to registers patient's for admittance to the hospital.
Story	CURA-38	As a Patient, I want to manages patient financial operations, including billing and insurance.
Story	CURA-39	As a Staff, I want to know the ward management which helps caregivers plan, track, and manage the various departments in the hospital so that it will very helpful to patients.

SPRINT BACKLOG

SPRINT BACKLOG 5

Issue Type	Key	Name	Story Points Estimate
Story	CURA - 39	As a patient, I want to able to search on the app, so that I can find the necessary information.	3
Story	CURA - 40	As a patient, I want to update my profile and also upload reports so that doctor can know the patient condition.	3
Story	CURA - 41	As an admin, I want to see all the doctor's list in the application so that, I can manage the system according to my need.	3



USER STORIES & ACCEPTANCE CRITERIA

USER STORY ID	SUMMARY	STORY POINTS
	As a Doctor, I want to see my particulars/schedule/profile on the application so that I can plan my duties at hospital.	
CURA-29	Scenario: Doctor wants to check his schedule Given I logged as Doctor 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.	3
	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 my appointment with doctor	
CURA-30	Scenario: Patient wants to check with his appointment details Given I logged as Patient When I open the application and go to this page then see my appointment details with the doctor and I plan accordingly.	3
	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	
CURA-31	Scenario: Patient wants to upload his previous history documents & symptoms Given I logged as Patient When I open the application and go to this page then see the browse option for uploading the documents and see the page to enter the details of my previous history & symptoms.	3
	As an Inventor, I want to know whether the supplies are as per the requirement or no, so that I can re-stock them.	
CURA-32	Scenario: Inventor wants to see the list of stock Given I'm in a role of Inventor or logged-in inventor When I open the web application then see the inventory supply details page, clicking on the page I should be able to see all the inventory details and option to restock	3

USER STORIES & ACCEPTANCE CRITERIA

Iser Story ID	Summary	Points
	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 others.	2
CURA-33	Scenario: Pathologist wants to check patient's samples Given I am in a role of logged-in Pathologist When I open web-application and go to this page then verify the patient's samples entered correctly or not	_ 3
	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.	
CURA-34	Scenario: Admin wants to check the login & log-out time of hospital staff Given I logged as Admin 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.	3
	As a Staff, I want to check room availability and manage rooms according to requirement so that it will be very helpful to doctors.	
CURA-35	Scenario: Staff wants to check availability of rooms at hospital Given I am in role of logged-in staff When I open the portal then click on this page so I can able to verify availability rooms and manage them.	3
	As a Patient, I want to registers patient's for admittance to the hospital.	
CURA-36	Scenario: Patient wants to easy way for registration Given I am in role of logged-in patient When I open application for first time then I see a link as Register Now then clicking on the link redirects to the registration form page and it will be very easy for patients to register in application.	3

USER STORIES & ACCEPTANCE CRITERIA

Iser Story		Stor
ID	Summary	Poin
	As a Patient, I want to manages patient financial operations, including billing and insurance.	
CURA-37	Scenario: Patient wants to know about financial operations & insurance policies Given I am in role of logged-in patient When I open the application I will be able to see all plans included then I able to should select my insurance plan and also have other related financial operations	3
	As a Staff, I want to know the ward management which helps caregivers plan, track, and manage the various departments in the hospital so that it will very helpful to patients.	
CURA-38	Scenario: Staff wants to know caregivers plan in hospital Given I am in role of logged-in staff When I open the application then click on this page I can able to verify plans and able to track them.	3

TEST CASES

Test	User					
ID :	Story ID	Test Case	Current State	Test Data	steps to follow	Expected Result
TS-11		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
TS-12		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
TS-13		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
TS-14		loading appointment details page	_	Email:- aabc@gmail.com pwd:- abc	doctor->schedules	User should be able to see his schedules and patient details
TS-15		loading appointment details page	_	Email:- aabc@gmail.com pwd:- abc	patients->appointments	User should be able to see his appointment details
TS-16		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

TEST CASES

Test	User					
ID	Story ID	Test Case	Current State Te	st Data ste	eps to follow	Expected Result
TS-17				Email:- aabc@gmail.com pwd:- abc	inventor->supply	User should be able to see all inventory supply details
TS-18 (.	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
TS-20 (CURA -16		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
TS-21	CURA -35		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
TS-22		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
TS-23		oading details of members in different departments		Email:- aabc@gmail.com pwd:- abc	staff->departments- >profile	User should the able see different department members details
TS-24	CURA -37		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
TS-25 (CURA -36	oading 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

TEST CASES

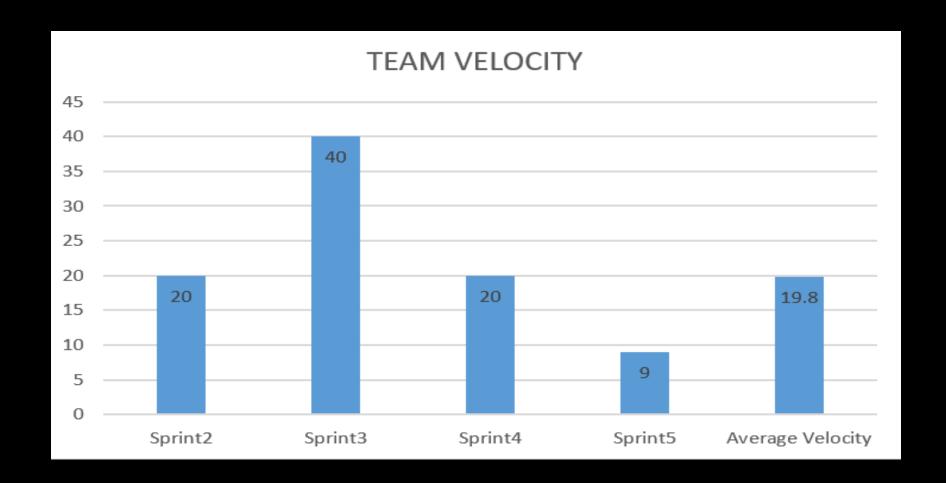
Test		Total Cours	Current State	Test Data	store to follow	Europe and Popula	
עו	Story ID	Test Case	Current State		steps to follow	Expected Result	
			user logged in as	Email:- testinventor@cura.com			
TS-26	CURA-32	order supply stock	inventor	pwd:- Qura	inventor->supply-> order	inventor should be able to place stock order successfully	
				Email:-			
				teststaff@cura.com		staff should be able to reserve a room for upcoming	
TS-27	CURA-35	reserving a room	user logged in as staff	pwd:- Qura	staff->rooms->reserve	operation or patient	
				Email:-			
		updating patient test	user logged in as	pathologytest@cura.com	pathologist->patient-	pathologist should be able to update patients' data	
TS-28	CURA-27	data	pathologist	pwd:- Qura	>update data	without any problem	
			·				
			user logged in as	Email:- aabc@gmail.com	pathologist->patient->add	pathologist should be able to add new patient in test	
TS-29	CURA -28	creating new record	pathologist	pwd:- abc	patient	data records	

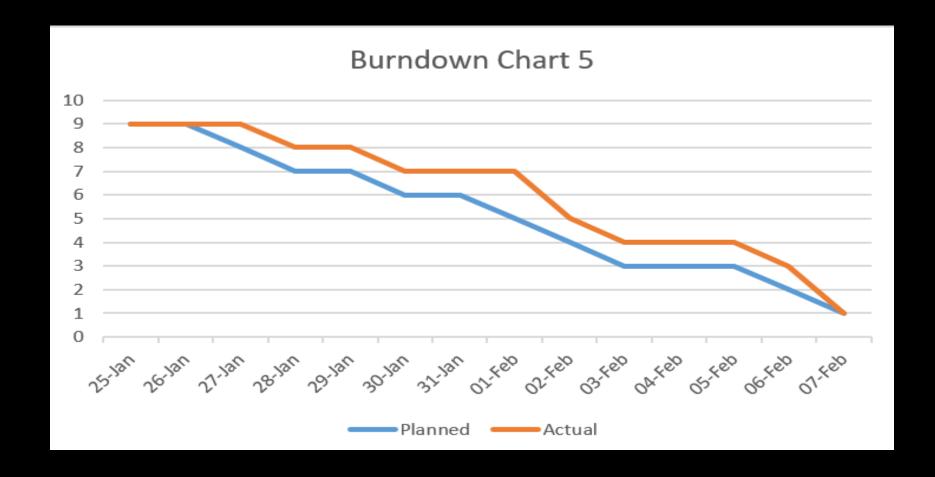
STORIES COMPLETED AND NOT COMPLETED

Issue Type	Key	Name	Story status
Story	CURA - 39	As a patient, I want to able to search on the app, so that I can find the necessary information.	Completed
Story	CURA - 40	As a patient, I want to update my profile and also upload reports so that doctor can know the patient condition.	Completed
Story	CURA - 41	As an admin, I want to see all the doctor's list in the application so that, I can manage the system according to my need.	Completed

PRESENTATION TITLE 5

METRICS







Retrospectives

- What went well??
- Team completed the task before due date.
- Team mates participates actively in team meeting calls

- What didn't went well??
- Avoid delaying work
- Facing difficulty in implementation part

What next??

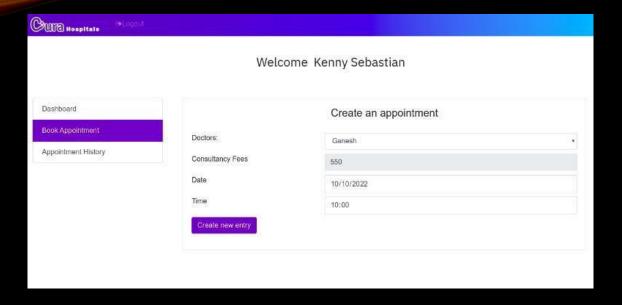
- Team members need to interact more in group meeting
- Set small targets to complete task more efficiently

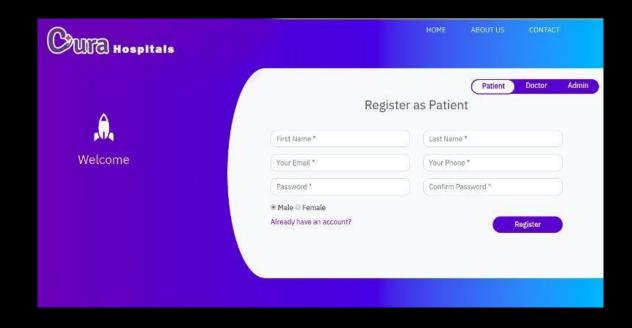


SPRINT 6

STORIES PLANNED FOR SPRINT 6

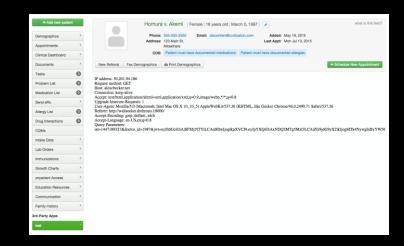
Issue Type	Key	Name	Status	Story Points Estimate
Story	CURA - 42	As a pathologist I should be able to see the medication given to the patient previously so, when new medicines are prescribed to the patient the old prescription is updated.	To Do	3
Story	CURA - 43	As a patient, I want to able to download the prescriptions for future purpose.	To Do	3
Story	CURA - 44	As an admin, I want to check the login and log out time of all Doctors/Staff/Inventors etc.	To Do	3







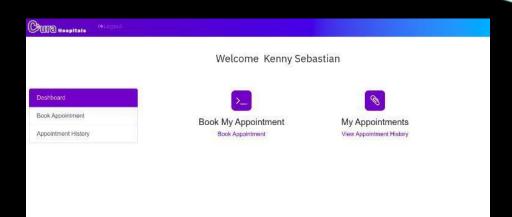
HUMAN API

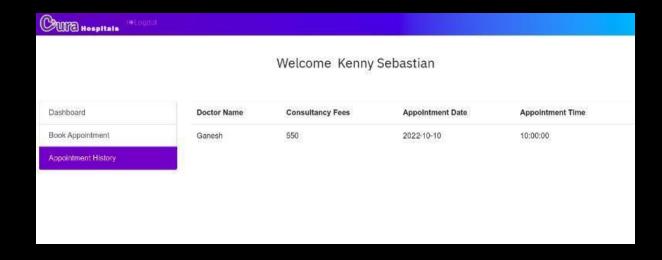


GITHUB LINK

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

