CURA

HOSPITAL MANAGEMENT SYSTEM

FALL 2022 CAPSTONE PROJECT
PROF. - HENRY WONG

AGENDA

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Team Introduction

Shivansh Tomar
Developer

Mounika Thalla
Project Manager
Quality Analyst

Jigar Shah
Developer

Team Introduction

Kuldeep Raj Kaluvala
Developer

Bindhu Valishetti
Developer

Nikhil Kesireddy
Business Analyst & QA

Sai Teja Koribilli
Scrum Master & DBA

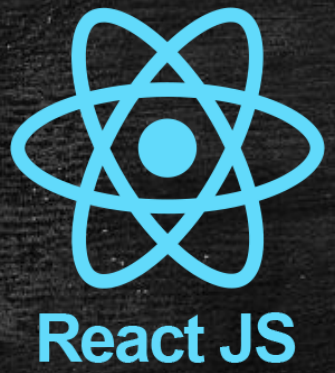
PROBLEM STATEMENT

- Managing the massive volumes of patient related data is exhausting.
- Absence of supply management system.
- Inefficiency and errors in data sharing.
- Patients who don’t have access to a healthcare center.
- Lack of transparency.

PROJECT DESCRIPTION

- The project Hospital Management System includes patient registration, data storage in the system, and computerized billing in the pharmacy and labs.
- The web-application has the capability of assigning a unique id to each patient and automatically storing the details of each patient and staff member.
- It has a search function to determine the current status of each room. Using the id, the user can look up a doctor's availability and patient information.

TECHNOLOGIES



Python

Jira

Java Script

CSS

Personas

Doctor

- Tori is a doctor who is working at New York Health Center.
- She will be having 30 to 40 appointments with patients everyday.
- It is very hard to keep track of the appointment details and other information related to patient.
- So by using hospital manage system, she can access the details of appointments easily.

Personas

Patient

- Mary is 81 years old.
- She is suffering from auto-immune disease, lyme disease and asthma. Lives in Aurburn in Alabama, US.
- Undergoes checkup every month ,But every time she has to fill appointment form and wait hours for the doctor.
- By using Hospital management system, she can fill her details once and book appointment with doctor easily.

Personas

Inventory Management

- Jack is an inventor who works in Osmania hospital in UK .
- He maintains the records of medical equipment's, drugs and surgical equipment.
- He need to keep track of these items every day for smooth running of operations.
- Using hospital management system, she can maintain database for this items and access their availability easily.

Personas

Admin

- Henry is an admin of Texas State Hospital.
- He plays a key role in the hospital management.
- He manages the scheduling and appointments of doctors.
- He plans departmental activities, evaluate doctors and other hospital employees, patient services
- He creates and deletes all the roles.
- By using hospital system management, he can organize the above activities easily.

Personas

Pathologist

- Omar is a pathologist who works in Ozone hospital in Greece
- He collects the samples from patient and examines them .
- After examining the samples of patient, he stores the data of patient.
- By using Hospital System management, the doctor and the patients can easily access these data and gets insights from those reports

Project Timeline

Sprint 1 Sep 14 - Sep 25

Name	Status	Priority	Estimation(days)
Work on Project Analysis	Done	Medium	3
Create Significant Business Idea	Done	Medium	5
Set up development tools (github and jira)	Done	High	2
Establish team roles	Done	Medium	5
Establish weekly meetings	Done	Medium	5
Work on deliverable 1	Done	Medium	5
		Total	22

Sprint 2 Sep 26 - Oct 25

Name	Status	Priority	Estimation(days)
Create Acceptance Criteria	Not Started Yet	High	2
Create Test Cases	Not Started Yet	High	2
Create Mockup Webpage design	Not Started Yet	High	2
Create User Stories	Not Started Yet	High	3
Research on the framework for the front end	Working on it	Medium	4
Research on the framework for the back end	Working on it	High	3
Work on the deliverable 2	Working on it	low	5
		Total	21

Project Timeline

Sprint 3

Name	Status	Priority
Draft Technical Paper	Not Started Yet	low
Work on the Algorithm	Not Started Yet	Medium
Implementation and Testing Algorrithm	Not Started Yet	Medium
Develop Web Pages	Not Started Yet	Medium
Work on Deliverables 3	Not Started Yet	Medium
		Total

Sprint 4

Name	Status	Priority
Finish development of web pages	Not Started Yet	Medium
Finish Project demo	Not Started Yet	High
Finish technical paper	Not Started Yet	High
Work on deliverable 4	Not Started Yet	low
		Total

Working Agreement

TEAM AGREEMENT

PACE UNIVERSITY

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 Koribilli
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 strike (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.

Leadership

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 changes.

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.

Consequences

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.

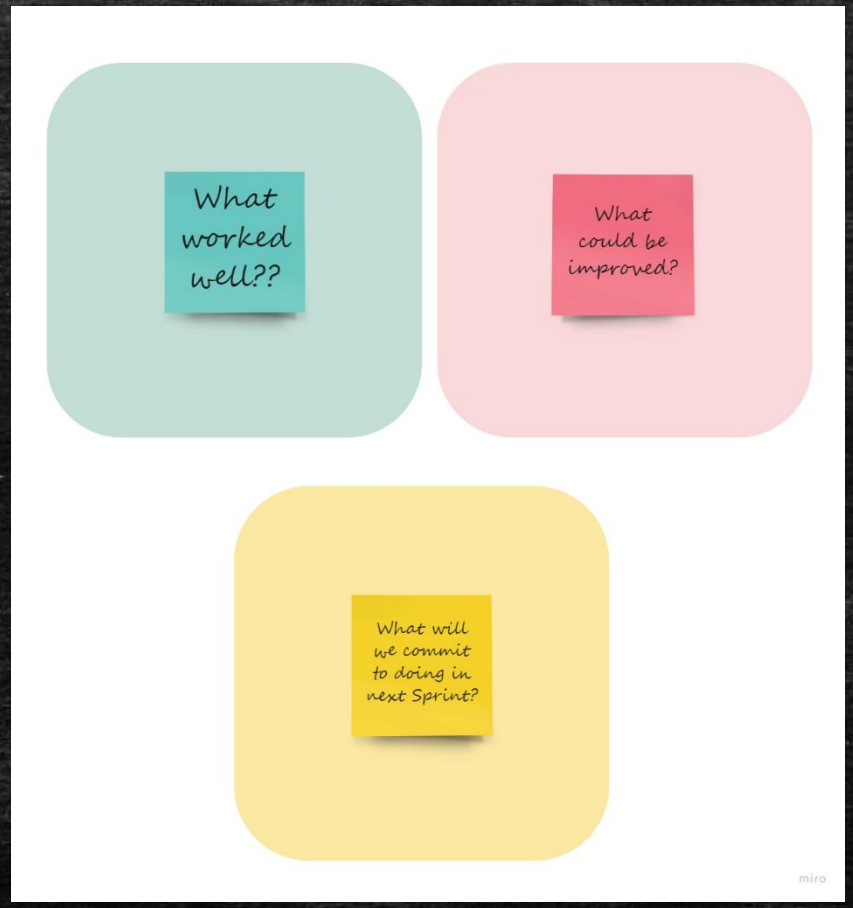
If you have any questions concerning this memo, or the contents therein, please direct them to the group secretary:

Sai Teja Koribilli

Sk30386n@pace.edu

(775) 467-8291

Retrospective



Retrospective

What went well?

- We as a team have planned to keep our objective simple to finish and produce what was expected.
- Team had good time working together.
- Active response from team to get involved in tasks with clear thoughts.
- The key was participation and motivation to complete task in time and every member knew what they had to do.
- We had several discussion sessions.
- Overall, every meeting session is effectively used to gain progress and complete sprint on time.

Retrospective

What could be improved?

- We frequently try to communicate to discuss about project and advancements even after the sprint completion.
- Setting up time limit for the tasks and learning from previous sprints performance to make improvements and where can we be better.

What will we commit to doing in the next sprint?

- Maintain consistency in performance, improvement is key.
- Previous sprint retro can be helpful for improving team balance in which areas team is lacking, where we can work according to that.
- Previous retro stats can be helpful in filling the gaps of next sprint.

Wiki Page

https://github.com/SaiTejjj/HMS/wiki/CURA---HMS

Thank You ☺