CSE 545: Software Security

Secure Hospital System

Group 09 Weekly Report - 10

Person prepared this report: Kiran Shanthappa on 12pm 29th Mar 2022

Person approved this report: Yash Bhokare on 3pm 29th Mar 2022

Person submitted this report: Yash Bhokare

List of members

1. Yash Bhokare (Group Leader)
2. Kiran Shanthappa (Deputy Leader)
3. Anthony Mac
4. Rajesh Badugula
5. Shashank Baradi
6. Sai Manoja Gadde
7. Karan Naik
8. Bhaskara Atluri
9. Jayanth Gorinta

Meeting Notes

[Mar 25th, 2022 – 04:00 pm] - The agenda of the meeting was to get a status update on implementation progress and challenges faced. Meeting was scheduled from 4:00pm to 5:00pm in the Noble Library. Progress of the week was discussed and some of the pain points addressed. Update from backend team: Shashank testing the application with Yash. Bhaskara is testing the malicious login scenarios and OTP authentication.

[Mar 25th, 2022 – 04:30 pm] - Update from the database team (Anthony and Manoja): Currently in the process of testing database triggers and foreign keys. Update from front-end team: Karan and Yash testing all the pages UI web pages and access control.

[Mar 25th, 2022 – 04:45 pm] - Update on hyperledger: Performing client API testing and data storage in the Hyperledger. Update on integration team: Yash and Shashank are testing on the application and integration.

Tasks Summary

Task No.	Task Name	Details of Task	Member	Status
1	Database Testing	Testing the database triggers and foreign keys. Hashed data storage.	Manoja, Anthony	Ongoing
2	Integration Testing	Testing Front-end and backend integration points.	Shashank, Yash	Ongoing
3	Blockchain Integration and Testing	Prepare sample data for blockchain integration and testing.	Jayanth, Kiran	Ongoing
4	Application Testing	Application functionality testing	Yash	Ongoing
5	Access control testing	Testing all user access controls from the Web page. Functionality flow provides only relevant information to users.	Karan, Yash	Ongoing
6	Security Testing	Login authentication and OTP testing.	Bhaskara	Ongoing

7	Project Report	Project report preparation	Kiran, Rajesh	Ongoing

Task Progress

Task Name	Member	Date of Review	Reviewer(s)	Review Conclusion	Recommended Action
ML for malicious login	Anthony, Manoja	Mar 28th	Bhaskara	Satisfactory	
Malicious Login	Bhaskara	Mar 28th	Karan	Satisfactory	
OTP with email	Bhaskara	Mar 28th	Yash	Satisfactory	
Login Authentication	Yash, Shashank	Mar 28th	Group Review	Satisfactory	

Issues

1. Integration testing requires a combined effort.
2. Slight delay in testing due to new issues in development. Need to put in extra effort over the weekend.
3. Organization of the work due to interdependencies of different components.

Gantt chart

CSE545 Secure Hospital System

Team Introduction Jan 19
Project Start Jan 21
Design Document Completion Feb 13
Project Complete Apr 5

2022 | 19/01 | 26/01 | 02/02 | 09/02 | 16/02 | 23/02 | 02/03 | 09/03 | 16/03 | 23/03 | 30/03 | 2022

Today

Task	Duration	Dates
Requirement Analysis	2 days	Jan 22 - Jan 25
Design schema for data storage	7 days	Jan 27 - Feb 4
Application + Security Desgin	7 days	Jan 27 - Feb 4
Explore Hyperledger blockchain solution	10 days	Jan 27 - Feb 9
Design frontend and API Integration	7 days	Jan 27 - Feb 4
ML based login and chatbot design	10 days	Jan 27 - Feb 9
Design Documentation	10 days	Jan 30 - Feb 12
Create database and tables	23 days	Feb 8 - Mar 10
Application functionality development	29 days	Feb 13 - Mar 24
Hyperledger Implementation	24 days	Feb 15 - Mar 18
SHS Website development	25 days	Feb 7 - Mar 13
Integration API Development	20 days	Feb 21 - Mar 18
AWS Hosting	14 days	Mar 1 - Mar 20
Testing Cycle 1	5 days	Mar 20 - Mar 25
Testing Cycle 2	5 days	Mar 27 - Apr 1
Project Report	1 day	Apr 2 - Apr 4

Week 10 Progress