DHIRUBHAI AMBANI INSTITUTE OF INFORMATION AND COMMUNICATION TECHNOLOGY

IT314 - SOFTWARE ENGINEERING

MINUTES OF MEETING LOGS

CRIME AND HAZARD MANAGEMENT SYSTEM

GROUP NO: 30

GROUP MEMBERS

202001410	PATEL AYUSH SANJAYBHAI
202001447	VAKANI HETAV ABHAYBHAI
202001467	JAY GROVER
202001421	PATEL KUNJ RAKESH
202001446	GONDALIYA VENIL CHANDUBHAI
202001275	AYUSH JAIN
202001458	KRIS PATEL
202001264	HARSH SANJAY MAKWANA
202001466	KALP KINJALBHAI PANDYA
202001438	NARODIA JEET NILESHKUMAR
202001457	HITARTH VYAS

Minutes of meeting logs:

Meeting 1:

- Meeting date: 30-01-2023
- Meeting time: 09:00 AM to 10:00 AM
- Location: Cafeteria
- Attendees: Kunj Patel, Hetav Vakani, Jeet Narodia, Ayush patel, Ayush Jain, Venil Gondaliya, Hitarth Vyas, Kris Patel, Kalp Pandya, Jay Grover, Harsh Makwana

Agenda:

- Decide the project title
- Discuss any issues or roadblocks for a particular project
- Plan next steps

Discussion:

- Everyone in the team presented their views on various titles of the projects and tools and technologies required for it.
- As not everyone in the group was comfortable with machine learning and artificial intelligence topics, hence we decided not to go with the projects requiring them.
- After filtering the projects according to the above, everyone agreed to go with a crime and hazard monitoring website, as some of the members had their views on how to implement various functionalities of the same.
- After finalizing the project title, everyone agreed to select the group leader by voting. There were three candidates for this position. Kunj Patel got majority of the votes and hence finalized as the leader of the group.

Decisions made:

- In this very first meeting, the project title was finalized and the leader of the group was decided. The team decided to schedule the next meeting after more instructions about the project were provided by the professor.

Meeting 2:

- Meeting date: 04-02-2023
- Meeting time: 09:30 PM to 12:00 PM
- Location: A-312 (Kunj Patel's room)
- Attendees: Kunj Patel, Hetav Vakani, Jeet Narodia, Ayush patel, Ayush Jain, Venil Gondaliya, Hitarth Vyas, Kris Patel, Kalp Pandya, Jay Grover, Harsh Makwana

Agenda:

- Decide the functional and non-functional requirements of the project.
- Discuss the potential functionalities of the project.
- Collect ideas of team members about how a particular function of the website should be implemented.

Discussion:

- The team started the project by brainstorming the basic template of the system. In order to determine the most appropriate format, they decided to look at existing applications/websites like 99acres.com that display property listings with relevant details. After reviewing these sites, Jeet, Ayush, Kunj, Kris, and Harsh discussed their findings in detail. They analyzed the pros and cons of different layouts and debated the most effective way to display the information. After long discussion, the template of the project was decided.
- After long and thorough discussion, the team finally reached a decision on the project's template. They agreed to create a website that would allow users to post their properties and any incidents that occurred in the area, with a detailed description of both. The website would feature a user-friendly interface that would allow visitors to easily navigate and search for information. They also decided to display all properties on a map, making it easier for users to visualize their locations.

Decisions made:

- In conclusion, the crime and hazard monitoring system project was initiated with the objective of creating a web application that would allow users to post their properties and any incidents that occurred in the area. After analyzing various templates, the team decided on a user-friendly interface that would allow users to easily navigate the system. We also chose to display all properties on a map to help users visualize their locations. This way, we decided how to implement the project on a very abstract level.

Meeting 3:

- Meeting date: 12-02-2023
- Meeting time: 02:30 PM to 04:00 PM
- Location: C-112 (Jeet's room)
- Attendees: Kunj Patel, Hetav Vakani, Jeet Narodia, Ayush patel, Ayush Jain, Venil Gondaliya, Hitarth Vyas, Kris Patel, Kalp Pandya, Jay Grover, Harsh Makwana

Agenda:

- Dividing Work for Frontend and Backend Development of Crime and Hazard Monitoring System

Discussion:

- Kunj Patel started the meeting by introducing the agenda and giving a brief overview of the project. Then, as a group leader, he recapped the previous meeting's discussion on the project's basic template and how the team decided on a user-friendly interface that would allow users to easily navigate the system.
- Kunj then initiated the discussion on dividing the work for the frontend and backend development. It was decided that the frontend team would be responsible for developing the user interface, while the backend team would focus on developing the database and server-side logic.
- The frontend team was responsible for developing the following features:
    - Design and development of the landing page
    - Displaying all properties on a map
    - Design and development of the user registration and login page
    - Design and development of the user dashboard page
    - Design and development of the incident reporting page and incident feed
    - Design and development of property addition and property feed
- Hetav Vakani, Harsh Makwana, Kalp Pandya, Jay Grover, Venil Gondaliya, Ayush Jain volunteered to work on frontend development tasks. They would be responsible for completing the tasks by 11-04-2023.
- The backend team was responsible for developing the following features:
    - Creating a database to store all the user and property details
    - Developing server-side logic for the user registration and login process
    - Developing server-side logic for the incident reporting process
    - Developing server-side logic for the property posting process
    - Developing server-side logic for the search and filter functionality

- Kunj Patel, Jeet Narodia, Ayush Patel, Kris Patel volunteered to work on the backend development tasks. They would be responsible for completing the tasks by 11-04-2023.

Decisions made:

- Kunj concluded the meeting by thanking the team for their participation and efforts. And reminded the team that the deadline for completing the tasks was one month from that day and that everyone should work together to meet the deadline.
- Action Items:
- Hetav Vakani, Harsh Makwana, Kalp Pandya, Jay Grover, Venil Gondaliya, Ayush Jain will work on frontend development tasks and complete them by [Insert Date].
- Kunj Patel, Jeet Narodia, Ayush Patel, Kris Patel, Ayush Jain will work on backend development tasks and complete them by [Insert Date].
- Kunj will send an email to the team to confirm the task allocation and deadline.

Meeting 4:

- Meeting date: 18-03-2023
- Meeting time: 11:00 AM to 01:00 PM
- Location: Google meet
- Attendees: Kunj Patel, Hetav Vakani, Jeet Narodia, Ayush patel, Ayush Jain, Venil Gondaliya, Hitarth Vyas, Kris Patel, Kalp Pandya, Jay Grover, Harsh Makwana

Agenda:

- Discuss the progress of every member of the group
- Discuss any issues or roadblocks
- Plan next steps

Discussion:

- Kunj started the meeting by welcoming everyone and recapping the previous meeting's discussion on dividing the work for the frontend and backend development. He also emphasized the importance of progress updates to ensure that the project is moving forward as planned.
- Progress Updates Each team member provided an update on their progress and the tasks they had completed so far. The following are the updates given by each team member:
    - Kunj Patel: I have set up the server and implemented a framework for the backend logic. The server is now up and running, and I have completed the server-side development tasks assigned to me.
    - Ayush Patel: I have completed the database design and implementation. The database is now functional and can store all the user and property details as required.
    - Hetav Vakani: I have implemented the user registration and login functionality. Users can now register on the website and login to access their dashboard.
    - Harsh Makwana, Venil Gondaliya, Ayush Jain, Hitarth Vyas: We have designed and developed the incident reporting page, property insertion page, incident feed, property feed. Users can now report incidents and add property in their area with a detailed description.
    - Kalp Pandya, Kris Patel: We have implemented an upvote and downvote system for incidents, along with a certain threshold number, after which the post will be marked as verified.

    - Jeet Narodia: I have implemented a dynamic scoring system to evaluate the score of a property based on severity of incidents reported in its locality. The system calculates a score based on various factors like time difference, distance and displays it on the property and also the system is connected to the database, which will perform updates directly to the database along with displaying it locally.

- Potential Issues and Roadblocks: The team discussed potential issues and roadblocks they encountered during their tasks. The following are the issues and roadblocks discussed:
    - Kunj Patel: I encountered issues with django while the server setup, which caused some delays in the project timeline. However, I managed to resolve the issues and got the server up and running.
    - Ayush Patel: I had some difficulty in integrating the database with the server-side logic. However, I was able to solve the issue after consulting with Kunj Patel.
    - Hetav Vakani: I encountered some issues with the user registration and login process, which caused some delays in the project timeline. However, I managed to resolve the issues after debugging the code.
    - Harsh Makwana, Venil Gondaliya, Ayush Jain, Hitarth Vyas: We faced some difficulty in designing the incident and property pages and had to make several iterations before finalizing the design.
    - Jeet Narodia: I had to spend some extra time on the dynamic scoring system to finalize the function from which the score will be calculated to ensure that it was accurate and efficient.

Decisions made:

- Kunj concluded the meeting by thanking the team for their updates and efforts. He reminded the team to continue working collaboratively and to update each other regularly. He also urged the team to communicate any issues or roadblocks they encounter, so the team can work together to overcome them.

Meeting 5:

- Meeting date: 21-04-2023
- Meeting time: 07:00 PM to 10:00 PM
- Location: A-312 (Kunj's room)
- Attendees: Kunj Patel, Hetav Vakani, Jeet Narodia, Ayush patel, Ayush Jain, Venil Gondaliya, Hitarth Vyas, Kris Patel, Kalp Pandya, Jay Grover, Harsh Makwana

Agenda:

- To merge the individual contributions of all members and make a final working website, following which, deploy the Crime and Hazard monitoring system website on Render (a web hosting service).

Discussion:

- Kunj started the meeting by welcoming everyone and recapping the progress made in the previous meeting, where each team member provided an update on their progress and potential issues encountered during the development of the Crime and Hazard Monitoring System.
- Code merge: every group member ensured that their part of code is updated on the Github project repository.
- Merge conflicts: After merging the whole code, there were some conflicts in connecting the frontend with backend and database. For this, the frontend and backend teams formed teams of two, one from each team, and started debugging the issue.
- After several changes, the project was finally up and working perfectly.
- At the end, the project was deployed on the hosting website Render, and the group leader declared the coding part of the project to be completed successfully.

Decisions made:

- In this meeting, the coding part of the project was completed and the project was deployed on the hosting website.
- Everyone decided to meet next weekend to finalize the documents for the project.

Meeting 6:

- Meeting date: 26-04-2023
- Meeting time: 06:00 PM to 10:00 PM
- Location: A-312 (Kunj's room)
- Attendees: Kunj Patel, Hetav Vakani, Jeet Narodia, Ayush patel, Ayush Jain, Venil Gondaliya, Hitarth Vyas, Kris Patel, Kalp Pandya, Jay Grover, Harsh Makwana

Agenda:

- Reviewing and merging the documentation of the completed project which includes, Discussion on SRS and its different versions, Unit Testing, System Testing and GUI Testing, Non-Functional Testing, Incomplete/Unimplemented parts of the project

Discussion:

- The team noted that there were multiple versions of the SRS, and all of them were reviewed to ensure that they contained all the Functional and Non-Functional Requirements, Use Cases etc.
- The team discussed the Unit Testing process and how it was carried out. The team noted that the Unit Testing process was done thoroughly to ensure that each individual function of the system was working as expected.
- The team then moved on to discuss System Testing, which included Black Box and Acceptance Level Test Cases. The team reviewed the results of the System Testing and noted that the system was working as expected.
- The team discussed how GUI Testing was carried out to ensure that the graphical user interface of the system was user-friendly and easy to use. The team noted that the GUI Testing process was done thoroughly to ensure that the system was intuitive and easy to navigate.
- The team reviewed the Non-Functional Testing process, which included testing for the performance, security, and usability of the system. The team noted that the Non-Functional Testing process was done thoroughly to ensure that the system was efficient, secure, and easy to use.
- The team reviewed the source code of the project and discussed how it was structured and organized. The team also reviewed the Design Document, which included the class, sequence, activity, and state diagrams. The team noted that the Design Document was comprehensive and easy to understand.
- The team discussed the parts of the project that were not completed or implemented. The team reviewed the reasons why these parts were not completed and discussed how they could be completed in the future.

Conclusion:

- Kunj Patel, the team leader announced that the team has successfully completed the project while adhering to the best practices in software development.