PROJECT STATUS REPORT-1

Team 2

CS673 SOFTWARE ENGINEERING

Yuchen Zheng (Backend Developer) -

Last Week:

1. I've set up a folder called Rubik's_Cube_recovery for our backend code work and I've outlined the basic content files. Here's a summary of what's been accomplished.

- algorithm.py - I've focused on the core logic of Rubik's Cube recovery. I'm using the Kociemba library to solve the Rubik's Cube and have provided a function named `solve(cube state)` to return the solution.

- api.py - I've created an API endpoint using Flask. This endpoint handles front-end requests, calls the solution function in `algorithm.py`, and returns the result to the front end.

- config.py - I've created a configuration file to store project settings like the server port and API version.

- error_handler.py - I've implemented error handling for possible API errors, such as incorrect input formats. Additionally, critical errors will be logged for further analysis.

- main.py - This will serve as the entry file of the project. It initializes and starts the web server and calls the functions of the above modules.

- requirements.txt - While not a Python code file, it's crucial. This file lists all the Python libraries that our project depends on, such as Flask and Kociemba.

Next Week:

1. I've also started writing the core code in `algorithm.py` and I'm prepared to adapt it to new functions as we progress.

Xinyu Yang (Frontend Developer) -

Last Week:

1. I've successfully created the front-end React project using react-cli.
2. Created the "xinyu" branch and pushed all the code to that branch.
3. Started learning Three.js through online materials to prepare for our 3D Rubik's Cube simulation.

Next Week:

1. My upcoming tasks include building a demo of the Rubik's Cube using Three.js, which will be a significant component of our project.
2. I'll also be working on finishing some user interfaces using React components to enhance the front-end functionality.

Yuan Gao (UI Designer) -

Last Week:
1. Last week we decided to use Pixso as our design tool for the project due to its usability and helpful features. We also allocated time for learning and training on UI design principles and processes.

2. I spent last week researching UI design concepts, methodologies and processes. I delved into various online resources to gain a solid understanding of UI design principles and watched instructional videos on using Pixso. This foundational knowledge will be essential for our upcoming design tasks.

Next One or Two Week:
1. In the next one to two weeks, I'll be working on creating an initial design draft that includes the necessary images and animations for the program. We'll also engage in discussions to refine and determine the best approach for these designs.

Chandana Chenchula Nandan (Documentation and UI) -
Last week:
1. Documentation - I was responsible for documenting project-related information. This involved creating comprehensive records, and ensuring that all project documentation was up-to-date and easily accessible.

2. Role Discussions - I actively participated in discussions related to team roles. These discussions were essential for defining the responsibilities of each team member, clarifying expectations, and ensuring that everyone understood their roles and contributions to the project.

3. Project Proposal 1st draft - I outlined the project's proposal first draft, including purpose, benefits, major functionality, target users, technologies, project phases, and roles. The project proposal served as a foundational document that was further altered to create the final document of the project's objectives and scope for stakeholders.

4. Software Project Management Plan (SPMP) 1st draft - I have prepared the first draft of Software Project Management Plan and this comprehensive document provides a detailed roadmap for project management, encompassing project objectives, organization, scheduling, risk management, and other critical aspects. The SPMP served as a vital reference point for guiding the project from initiation to completion.

5. Minutes of the meeting: I jotted down the proceedings of this week's meeting and will continue doing so until all the project objectives are met
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Next week:
1. I'll continue with documentation to support the team's collaborative efforts.
2. Make sure the documentation is according to the progression and also will make efforts to meet during free slots to work together.

Shanthakumar Sivakumar (SQA and PM)

Last Week:
1. Articulated the project objectives and outlined a clear roadmap for ensuring on-time project delivery.
2. Successfully formulated the final project proposal in conjunction with the Software Configuration Management Plan (SCMP).

This Week:
1. Assumed responsibility for hosting weekly meetings to assess team members' progress.
2. Developed the comprehensive Software Project Management Plan (SPMP) and Software Master Configuration Plan (SMCP) for the team, and also created the final document of the Project Status Report.
3. Established a dedicated GitHub repository for our project and granted team member's collaborative access.
4. Committed a folder containing all project documentation to the main branch, ensuring easy access for all stakeholders.
5. Created a ReadMe file for our repository.
6. Delved into various testing frameworks and strategies tailored to our project's needs.

Next Week:
1. Will continue vigilant monitoring of the team's progress and extend support to team members when needed.
2. An integral task for the upcoming week is facilitating seamless communication between the back-end and front-end developers as the project evolves.
3. Initiating the setup of a dedicated test environment crucial for rigorous testing.

These actions from team members aim to ensure project success, foster effective collaboration, and uphold high-quality standards throughout our project's lifecycle.

Minutes of Meeting

Date: September 24, 2023
Time: 8:00 PM - 9:30 PM
Location: Virtual Meeting

Attendees:

Shanthakumar Sivakumar (PM)
Yuchen Zheng (Backend Developer)
Yuan Gao (UI Designer)
Xinyu Yang (Frontend Developer)
Chandana Nandan (Documentation)

Agenda:

Review of Project Proposal and Software Project Management Plan
Team Updates and Progress Reports
Discussion on Roles and Responsibilities
Project Management Tools and Workflow
Risk Management Plan Review
Estimation and Scheduling Overview
Planning and Monitoring Strategies
Action Items
Next Meeting

Meeting Summary:

Review of Project Proposal and Software Project Management Plan
The meeting commenced with a thorough review of the Project Proposal and Software Project Management Plan to ensure alignment among team members regarding project goals, scope, and approach.

Team Updates and Progress Reports

- Yuchen Zheng (Backend Developer) reported progress on the backend, including the preparation of folder structures and initial code files. Core logic for Rubik's Cube recovery is in development.
- Yuan Gao (UI Designer) shared the decision to use Pixso as the design tool and ongoing research on UI design principles and Pixso features.

- Xinyu Yang (Frontend Developer) established the front-end React project and initiated learning Three.js. Plans include building a Rubik's Cube demo with Three.js.
- Chandana Nandan (Documentation) updated on documentation efforts.
- Shanthakumar Sivakumar (PM) set project objectives and individual objectives for team members.

Discussion on Roles and Responsibilities
Team members discussed their roles and responsibilities, confirming their understanding of their tasks.

Project Management Tools and Workflow
Project management tools, including GitHub, Google Docs, Workspace, Zoom, and Visual Studio Code, were reviewed. Emphasis was placed on effective communication and collaboration.

Risk Management Plan Review
The team revisited identified risks, discussed their potential impact, and reiterated contingency plans.

Estimation and Scheduling Overview
The estimated project duration of 12 weeks was presented, with a breakdown of phases and tasks. Team members were encouraged to consider the timeline in their work planning.

Planning and Monitoring Strategies
Discussions covered the importance of regular progress meetings, agile methodologies, tracking and reporting using project management tools, risk assessment, resource management, quality control, and documentation. The PM emphasized the importance of regular GitHub updates for task monitoring.

Action Items:
Coordination with frontend developers for ongoing development.

Next Meeting:

Date: September 26, 2023
Time: 8:45 PM - 9:30 PM
Agenda: In-person discussion of upcoming phases for the week.
Meeting Adjourned: 9:30 PM on September 24, 2023