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CSE 416
Professor Arthur Lee
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Milestone 4 Progress Report

Individual Progress Update

Suhyun Chun

- Login Page **[Completed]**
 - HTML/CSS are finished
 - Sign up Page **[Completed]**
 - HTML/CSS are finished
 - Add user type (company or individual) to make different view
 - Normal User View - Profile Page **[In Progress - 80%]**
 - For edit page, all functionalities are implemented – Design should be modified
 - Show point's transaction history, sort data (recent one is on the top)
 - Divided history data by year and also shown by ascending order.
 - Add a cancel button for volunteers that the user has not started yet.
 - Company View **[In Progress - 20%]**
 - Need to add a feature that adds a new volunteer work poster
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Minki Jeon

- Backend preparation **[Completed]**
 - Prepare server with Node.js, Express.js
 - Prepare APIs
 - Prepare database with MongoDB
- Issue certificate **[Completed]**
 - Page and function for issuing certificates
 - Blockchain connection establishment
 - User's cryptocurrency wallet connection establishment
- Approves, delete, and modify articles **[In Progress - 20%]**
 - Pages and functions for approve, delete, and modify articles posted by content creators

Sangwoo Park

- Landing Page [**Completed**]
 - Make fully edit landing page with linking paths to other pages
 - Search Page [**Completed**]
 - UI for a post form users can use to do advanced search (filter search)
 - PUT request on selected filters towards backend
 - GET request on result (Volunteer works) when search from backend
 - Detailed Volunteer Work Page [**In Progress - 80%**]
 - UI for detailed description of selected volunteer work from previous page
 - GET request for description from backend
 - Apply Page [**In Progress - 80%**]
 - UI for user to select available date and apply.
 - GET request for available days user can apply from backend
 - PUT request on user and user's selected work and date to the backend
 - Upload Volunteer Work Page [**In Progress - 75%**]
 - UI for orgainzations to upload detailed description and images about the volunteer work
 - POST request to backend
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Group Progress Update

List of Use cases/Features

Feature	Current Status	Assigned to
Landing Page	Completed	Sangwoo Park
Search Volunteer Works (filtering)	Completed	Sangwoo Park
Register for Work	In Progress	Sangwoo Park
Edit Profile	Completed	Suhyun Chun
View logs of owned certificates	Completed	Suhyun Chun
View amount of current points	Completed	Suhyun Chun
View history	In Progress	Suhyun Chun
Issuing Certificates	Completed	Minki Jeon
Approves, delete, and modify articles created	In Progress	Minki Jeon
See the applicants' information	In Progress	Minki Jeon

Overall, the development is a bit behind the schedule, but that is something to be expected as we changed the underlying development technologies and tools including the database management system (from MySQL to MongoDB) and the CSS framework. Therefore, we expect to catch up with the schedule quickly, speed up the process, and keep up the hard work, so we could complete the build and deployment by the final submission date. We plan to complete all features and modify the UI by this week, so that we could have more time to review and test our code before the submission.

Team Grade

Even though the development progress is slightly behind the original schedule, we think the project deserves a letter grade 'A' as all members do their best effort on their work, are being responsible, and do not hesitate to give help if someone struggles. We have implemented most of the frontend, the backend server, and the database. The deployment of the website is already done. The only assignment left in this project is to connect the frontend UI with the backend. This was delayed due to the need of thorough testing of complex features.

Issue / Plan Moving Forward

One of the challenges we faced during the development is understanding the key concepts of blockchain, NFTs, and Next.js because two of our team members are not familiar with using them. It took some time to get used to the technologies. Also, we plan to make three different user groups: the user, the content creator (the organization who posts their volunteer work posts), and the administrator (platform, us in our case). Therefore, the tasks were more overwhelming than we expected at first. Now, we all have a good understanding of blockchain and feel comfortable with using it. Therefore, we can build our application in a shorter time by keeping the momentum, and we plan to finalize the project soon.