**IDS 706 Final Project Teamwork Reflection**

Wenye Li

**I.Team's Functioning**

Team members: Zella Zhao, Zhenkai Zhu, Junpei Liao

Wenye Li's Responsibilities

* Docker Containerization: Created and optimized Dockerfile for containerized deployment. Ensured proper environment setup and dependency management.
* Continuous Integration and Continuous Delivery (CI/CD): Implemented a CI/CD pipeline for the project through GitHub Actions. Implemented automated testing, linting, and code quality checks.
* GitHub Configurations: Configured GitHub Codespaces for consistent development environment. Set up .devcontainer configuration for reproducible development setup.

Collaborative Effort with Junpei Liao:

* Microservice Development: Jointly responsible for designing and implementing microservice architecture using FastAPI.

**II. Peer Evaluation**

**Junpei**

I would give Junpei an A for this project.

Positive Attributes:

* Junpei demonstrated exceptional technical proficiency in implementing application development and user interface design.
* Junpei exhibited excellent communication skills by effectively explaining user interface concepts and design rationales to team members.
* Junpei consistently met project deadlines by starting tasks early and maintaining a steady development pace throughout the project.

Areas for Improvement

* Junpei's drive for perfection sometimes leads to overcomplication of simple features - adopting a more iterative approach with regular team check-ins could help balance development efficiency with feature sophistication.
* It would be better for Junpei to enhance technical documentation with more context and explanations for future maintainability.
* It would be better for Junpei to be more proactive in seeking input from team members during the early stages of technical decision-making.

**Zhenkai**

I would give Zhenkai an A for this project.

Positive Attributes:

* Zhenkai exhibited exceptional learning and understanding in AWS infrastructure setup and cloud deployment strategies, ensuring robust and scalable application deployment.
* Zhenkai demonstrated strong dedication to system reliability by implementing comprehensive load testing, providing valuable insights for system optimization.
* Zhenkai showed exceptional ability to adapt to new technologies and quickly implement them in the project, particularly in working with AWS.

Areas for Improvement

* While Zhenkai's technical implementations are strong, he could enhance his documentation of AWS configurations and deployment processes to facilitate knowledge sharing within the team.
* It would be better for Zhenkai to improve on time estimation for complex technical implementations, particularly in deployment tasks.
* It would be better for Zhenkai to increase frequency of status updates to keep team better informed.

**Zella**

I would give Zella an A for this project.

Positive Attributes:

* Zella demonstrated skill in creating comprehensive system architecture diagrams that effectively communicate complex technical relationships and data flows.
* Zella exhibited strong technical writing abilities through well-structured documentation and insightful quantitative assessment reports that helped guide system improvements.
* Zella often offered constructive feedback and suggestions for improvements during team meetings.

Areas for Improvement

* It would be better for Zella to schedule more informal check-ins with teammates to understand their documentation needs.
* It would be better for Zella to become more active in participating team meeting and sharing technical insights earlier in the decision-making process.
* It would be better for Zella to start small portions of documentation earlier rather than completing large sections at once.

**III. Group Discussion Feedback**

The team discussion about everyone's strengths and weaknesses helped me learn a lot about our team. My teammates pointed out that I'm good at technical work, especially in Docker and GitHub Actions. They also liked how I helped explain technical problems clearly. These good points have helped our project move forward smoothly. Their feedback made me feel proud of my contributions to the team.

However, my teammates suggested that I could work on sharing leadership tasks more with others. Sometimes I focus too much on doing things by myself instead of involving the team. This feedback has helped me understand that good teamwork isn't just about doing your own part well - it's also about letting others take the lead sometimes. I plan to encourage my teammates to take charge of different tasks in future projects, which will help us work better as a team.