IDS706 Final Project Teamwork Reflection

Team members:

- Yuchen Zhang (yz674)
- Xuesen Wen (xw202)
- Yuhan Xue (yx167)
- Rui Chen (rc381)
- Junhan Xu (jx139)

Our team had a Zoom meeting after the project was finished and discussed peer review for each member, integrating the teamwork principles in the book Teamwork: What Must Go Right/What Can Go Wrong.

Peer review for Yuchen

Summary: Yuchen was responsible for building the microservice that interfaces with the data pipeline using Python. Yuchen also contributed to the README.md file and the architectural diagram. Yuchen's microservice was well-designed, documented, and tested. It included logging and was containerized using the Distroless Docker image. Yuchen also provided a Dockerfile in the repository. Yuchen's microservice was able to handle 2,000 requests per second, as verified by the load test. Yuchen's work was of high quality and met the project goals and expectations.

Decision: I recommend Yuchen for a high grade for the team project.

Major concerns: I have no major concerns about Yuchen's performance. Yuchen demonstrated competence, commitment, collaboration, and leadership in the team.

Minor concerns: Here are some minor suggestions for improvement for Yuchen:

- Add more comments and documentation to the code to make it easier to understand and maintain.

- Use a consistent coding style and format throughout the project. You can use tools such as Black or Flake8 to help you with this.
- Explore other data engineering libraries and tools that could enhance the functionality and performance of the microservice, such as Spark or SQL.

Peer review for Xuesen

Summary: Xuesen was responsible for implementing the IaC solution for infrastructure setup and management using Azure App Service. Xuesen also contributed to the README.md file and the GitHub configurations. Xuesen's IaC solution was well-structured, documented, and deployed. It included the necessary resources and parameters for the project. Xuesen's work was of high quality and met the project goals and expectations.

Decision: I recommend Xuesen for a high grade for the team project.

Major concerns: I have no major concerns about Xuesen's performance. Xuesen demonstrated competence, commitment, collaboration, and leadership in the team.

Minor concerns: Here are some minor suggestions for improvement for Xuesen:

Add more comments and documentation to the CloudFormation template to make it easier to understand and maintain.
Use a consistent naming convention and format throughout the project. You can use tools such as cfn-lint or cfn-nag to help you with this.
Explore other IaC solutions and tools that could enhance the functionality and performance of the project, such as AWS SAM or AWS CDK.

Peer review for Yuhan

Summary: Yuhan was responsible for implementing the CI/CD pipeline for the project using GitHub Actions. Yuhan also contributed to the README.md file and the GitHub configurations. Yuhan's CI/CD pipeline was well-designed, documented, and executed. It included the necessary steps and workflows for the project. Yuhan's work was of high quality and met the project goals and expectations.

Decision: I recommend Yuhan for a high grade for the team project.

Major concerns: I have no major concerns about Yuhan's performance. Yuhan demonstrated competence, commitment, collaboration, and leadership in the team.

Minor concerns: Here are some minor suggestions for improvement for Yuhan:

Add more comments and documentation to the GitHub Actions files to make them easier to understand and maintain.
Use a consistent coding style and format throughout the project. You can use tools such as Prettier or EditorConfig to help you with this.
Explore other CI/CD solutions and tools that could enhance the functionality and performance of the project, such as AWS Cloud Build or Serverless Framework.

Peer review for Rui

Summary: Rui was responsible for creating the architectural diagram for the project. Rui also contributed to the README.md file and the data engineering part of the project. Rui's architectural diagram was clear, accurate, and comprehensive. It included all the components and interactions of the project. Rui's work was of high quality and met the project goals and expectations.

Decision: I recommend Rui for a high grade for the team project.

Major concerns: I have no major concerns about Rui's performance. Rui demonstrated competence, commitment, collaboration, and leadership in the team.

Minor concerns: Here are some minor suggestions for improvement for Rui:

Add more labels and annotations to the architectural diagram to make it easier to understand and explain.
Use a consistent style and format throughout the project. You can use tools such as Draw.io or Lucidchart to help you with this.
Explore other data engineering libraries and tools that could enhance the functionality and performance of the project, such as Vector Database.

Peer review for Junhan

Summary: Junhan was responsible for writing the comprehensive README file for the project. Junhan also contributed to the data engineering part of the project and the GitHub configurations. Junhan's README file was informative, detailed, and engaging. It included all the necessary information and instructions for the project. Junhan's work was of high quality and met the project goals and expectations.

Decision: I recommend Junhan for a high grade for the team project.

Major concerns: I have no major concerns about Junhan's performance. Junhan demonstrated competence, commitment, collaboration, and leadership in the team.

Minor concerns: Here are some minor suggestions for improvement for Junhan:

Add more screenshots and examples to the README file to make it more visual and appealing.
Use a consistent writing style and format throughout the project. You can use tools such as Grammarly or Hemingway to help you with this.
Explore other data engineering libraries and tools that could enhance the functionality and performance of the project, such as Spark or SQL.