

Team Contributions: Rev 0

Software Engineering

Team 21, Alkalytics
Sumanya Gulati
Kate Min
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Jason Tran

This document summarizes the contributions of each team member for the Rev 0 Demo. The time period of interest is the time between the POC demo and the Rev 0 demo.

1 Demo Plans

The following objectives have been derived from section 6 of the [Module Guide](#) and describe what will be demonstrated during the team's Revision 0 demonstration.

- **User Authentication:** Ensure users can log in using a test account, where authentication is verified using third-party software, and permissions are assigned based on their role.
- **Dashboard Overview:** Display the home page with navigation bars and the last uploaded dataset for quick access along with widgets for sample graphs.
- **Data Upload and Transformation:** Allow users to upload a CSV file, which is then converted into JSON using a migration algorithm, and store data points in the database.
- **Graph Generation:** Enable users to create line, bar, and scatter plots with customizable parameters, supporting multiple experiments in a single graph.
- **Data Analysis:** Provide tools for analyzing graphs, identifying basic parameters, checking linearity, evaluating residuals, detecting underlying trends, mapping to polynomials, and calculating fit scores.
- **Results and Saving:** Display generated plots with an option to save them for future reference.

- **Experiment History:** Offer a navigation pane where users can view all past experiment data.
- **CRUD Operations on Data Points:** Provide a page where users can manually add or modify uploaded data.

2 Team Meeting Attendance

Student	Meetings
Total	5
Jason Tran	5
Jennifer Ye	5
Kate Min	5
Sumanya Gulati	3

The period of interest is from December 6, 2024 till January 29, 2025.

3 Supervisor/Stakeholder Meeting Attendance

Student	Meetings
Total	3
Jason Tran	2
Jennifer Ye	3
Kate Min	3
Sumanya Gulati	3

The period of interest is from December 18, 2024 till January 29, 2025.

4 Lecture Attendance

Student	Lectures
Total	2
Jason Tran	0
Jennifer Ye	1
Kate Min	0
Sumanya Gulati	1

The period of interest is from December 6, 2024 till January 29, 2025.

5 TA Document Discussion Attendance

Student	Meetings
Total	1
Jason Tran	1
Jennifer Ye	1
Kate Min	1
Sumanya Gulati	1

The period of interest is from December 18, 2024 till January 29, 2025.

6 Commits

Each team member has been working on an individual, dedicated branch for separate features or components of the project. Each subsection refers to the commit history of one such branch. Only currently active branches have been taken into account.

6.1 Branch: main

Student	Commits	Percent
Total	5	100%
Jason Tran	2	40%
Jennifer Ye	0	0%
Kate Min	2	40%
Sumanya Gulati	2	40%

It must be noted that as described in Section 7 - Workflow Plan of the [Development Plan](#), commits from milestone specific branches are squashed into a single commit when merged into the main branch which explains the low count. For example, a commit co-authored by Sumanya and Kate to add the Module Guide document to the main branch consists of 13 squashed commits.

The period of interest for this subsection is from December 6, 2024 till January 28, 2025.

6.2 Branch: frontend-feat/add-dashboard-page

Student	Commits	Percent
Total	5	100%
Jason Tran	3	60%
Jennifer Ye	0	0%
Kate Min	2	40%
Sumanya Gulati	0	0%

The period of interest for this subsection is from December 24, 2024 till January 28, 2025.

6.3 Branch: frontend-feat/add-table-view-page

Student	Commits	Percent
Total	2	100%
Jason Tran	2	100%
Jennifer Ye	0	0%
Kate Min	0	0%
Sumanya Gulati	0	0%

The period of interest for this subsection is from December 24, 2024 till January 28, 2025. The commits from January 17, 2025 have not been included in the count as they have already been accounted for in subsection [6.2](#).

6.4 Branch: frontend-feat/add-user-login-auth

Student	Commits	Percent
Total	2	100%
Jason Tran	0	0%
Jennifer Ye	0	0%
Kate Min	2	100%
Sumanya Gulati	0	0%

The period of interest for this subsection is from December 24, 2024 till January 28, 2025. The commit from January 17, 2025 has not been included in the count as it has already been accounted for in subsection [6.3](#).

7 Issue Tracker

Student	Authored (O+C)	Assigned (C only)
Jason Tran	0	4
Jennifer Ye	7	4
Kate Min	0	4
Sumanya Gulati	4	4

The period of interest for this subsection is from December 6, 2024 till January 29, 2025. Given the distribution of work and the fact that all assigned components were worked on individually by team members, issues were not opened by the team members which explains the low count.

8 Pull Requests

Student	Pull Requests (O+C)	Percent
Total	6	100%
Jason Tran	3	50%
Jennifer Ye	0	0%
Kate Min	1	16.67%
Sumanya Gulati	2	33.33%

The period of interest for this subsection is from December 23, 2024 till January 28, 2025.

9 CICD

The initial phase of Continuous Integration (CI) was implemented to the project in the form of a \LaTeX build checker that flags any compiling issues caused by incorrect syntax, missing elements or more. Additionally, Flake8 - a linter for Python and ESLint - a linter for JavaScript have been implemented using GitHub Actions.