

# Team Contributions: POC Software Engineering

Team 21, Alkalytics  
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This document summarizes the contributions of each team member up to the POC Demo. The time period of interest is the time between the beginning of the term and the POC demo.

## 1 Demo Plans

The following objectives have been derived from Section 9 of the [Development Plan](#) and describe what will be demonstrated during the team's Proof of Concept Demonstration.

- Developing and implementing a migration algorithm for transferring CSV data files to the database.
- Ensuring that 100% of the existing data has been migrated without loss or error to the new database.
- Demonstrating that all existing inter-parameter comparisons in the Excel templates have been replicated in the database.

## 2 Team Meeting Attendance

Student	Meetings
Total	9
Sumanya Gulati	9
Jennifer Ye	9
Jason Tran	9
Kate Min	9

All team members attended every team meeting during the time period of interest.

### 3 Supervisor/Stakeholder Meeting Attendance

Student	Meetings
Total	5
Sumanya Gulati	5
Jennifer Ye	4
Jason Tran	4
Kate Min	4

One of the five supervisor meetings involved a tour of the lab and the apparatus, in which Sumanya attended alone due to differences in availability. The total count of five supervisor meetings is fewer than the expected meeting frequency established in Section 4.2 of the [Development Plan](#) for the following reasons:

1. Meetings with Dr. de Lannoy's participation were not strictly necessary as he is able to receive progress updates from Bassel, the secondary supervisor, and has been reviewing the team's deliverables sent via email.
2. There were no significant updates/questions during the weeks of October 8, October 15, and October 22 that would have necessitated a meeting; instead, some discussions were conducted via email.

### 4 Lecture Attendance

Student	Lectures
Total	12
Sumanya Gulati	2
Jennifer Ye	1
Jason Tran	0
Kate Min	1

Due to the busy schedules of the team, one member may attend lectures on behalf of the team. The number of attended lectures should be more, however the issues to be created for later lectures were forgotten. The numbers in the table are solely based on the number of issues created. The team will work to add issues for lectures in the future.

## 5 TA Document Discussion Attendance

Student	TA Discussions
Total	4
Sumanya Gulati	4
Jennifer Ye	4
Jason Tran	4
Kate Min	4

All members have attended all meetings with the TAs.

## 6 Commits

Student	Commits	Percent
Total	40	100%
Jason Tran	5	12.5%
Jennifer Ye	6	15%
Kate Min	8	20%
Sumanya Gulati	20	50%

As described in Section 7 - Workflow Plan of the [Development Plan](#), in addition to creating separate branches for each milestone which merged into the main branch, each team member created a separate branch off of the milestone branch for their respective sections. Their commits from their section-specific milestone branches were squashed into a single commit when merged to the milestone branch. Each of these squashed commits has been counted singularly in the above table.

Additionally, the number of commits by Sumanya Gulati is over-represented in the count as 12/20 of the commits are fixup! commits which were used to edit READMEs, upload relevant resources or fix minor formatting issues and such. These 12 commits do not reflect her contribution to the actual content of each milestone submission.

## 7 Issue Tracker

Student	Authored (O+C)	Assigned (C only)
Total	103	87
Jason Tran	21	18
Jennifer Ye	4	13
Kate Min	3	20
Sumanya Gulati	62	36

We believe that the number of issues authored by each team member is not a fair metric for our team. This is because for the first two milestones, all the issues were opened and assigned to the respective members by the meeting chair for that period (Sumanya Gulati in this instance).

After the submission of the [SRS](#) document, there was a brief transition period where every member opened their own issues but post that transition period, the meeting chair for the current period (Jason Tran) opened and assigned issues for all the team members.

We realize this is an inefficient system and so, for all upcoming milestones and submissions, each team member will be responsible for opening and closing issues for the sections and components assigned to them.

## 8 CICD

The initial phase of Continuous Integration (CI) has been implemented to our project in the form of a  $\text{\LaTeX}$ build checker that flags any compiling issues caused by incorrect syntax, missing elements or more.

As a part of the next phase of CI, we will be implementing linters, namely, Flake8 and ESLint (as outlined in the [Validation and Verification Plan](#)). Additionally, we would continue using GitHub Actions to implement CI.

## 9 Pull Requests

Student	Pull Requests (merged)
Total	26
Jason Tran	6
Jennifer Ye	5
Kate Min	7
Sumanya Gulati	8

Although the total number of closed Pull Requests (PRs) is 32, only the ones that were successfully merged have been taken into account for the above table. We believe that the number of PRs provides a much more transparent and accurate representation of the contribution by each team member as opposed to section [7](#).