

Team Contributions: Rev 0

Bridging Gaps: AI for Diagram Accessibility

Team 22, Reading4All

Nawaal Fatima

Dhruv Sardana

Fiza Sehar

Moly Mikhail

Casey Francine Bulaclac

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; the contributions prior to the PoC are NOT included.

1 Demo Plans

The team will demonstrate a fully integrated system that allows users to sign up, log in, upload images and view history. The demo will showcase the following features:

- User uploads an image through the frontend interface.
- The image is sent to the backend server via API call.
- The backend processes the image using the AI model to generate ALT text.
- The generated ALT text is sent back to the frontend and displayed to the user.

2 Team Meeting Attendance

Student	Meetings
Total	8
Fiza Sehar	8
Moly Mikhail	8
Francine Bulaclac	8
Dhruv Sardana	8
Nawaal Fatima	8

3 Supervisor/Stakeholder Meeting Attendance

Supervisor's Name: Jingchuan Sui

Student	Meetings
Total	4
Fiza Sehar	4
Moly Mikhail	4
Francine Bulaclac	4
Dhruv Sardana	4
Nawaal Fatima	4

4 Lecture Attendance

Student	Lectures
Total	1
Fiza Sehar	0
Moly Mikhail	1
Francine Bulaclac	1
Dhruv Sardana	0
Nawaal Fatima	0

5 TA Document Discussion Attendance

TA's Name: Chris Schankula

Student	TA Meetings
Total	1
Fiza Sehar	1
Moly Mikhail	1
Francine Bulaclac	1
Dhruv Sardana	1
Nawaal Fatima	0

6 Commits

Student	Commits	Percent
Total	394	100%
Moly Mikhail	84	21.3%
Fiza Sehar	101	25.6%
Francine Bulaclac	77	19.5%
Dhruv Sardana	112	28.4%
Nawaal Fatima	20	5.1%

AI Subteam: Francine and Fiza were working on testing, labelling and training custom data on a given model. Nawaal was working on huge model testing with larger datasets. Due to restrictions on model size, most of her work could not be regularly committed to the repository. For unknown reasons Shubh2294 was authored commits that were Nawaal's so we added that to her total number of commits.

7 Issue Tracker

Student	Authored (O+C)	Assigned (C only)
Moly Mikhail	41	36
Fiza Sehar	29	22
Francine Bulaclac	34	28
Dhruv Sardana	41	36
Nawaal Fatima	12	7

8 CICD

For CI/CD we implemented two extra workflows, backend and frontend which runs on every commit that is pushed in every branch. Each workflow uses linter tools to check for coding standards, checks for installed dependencies for backend and frontend and runs unit tests. The backend workflow has Github Secrets embedded which makes it easier to have environment variables.

9 Team Charter Trigger Items

After revisiting our team charter, we identified that no items were triggered in our team charter.

10 Additional Productivity Metrics

Research Subteam Contributions:

Student	Research
Fiza Sehar	1
Moly Mikhail	1
Francine Bulaclac	1
Dhruv Sardana	1
Nawaal Fatima	14

The productivity metric reflects research that was done by team members to better understand concepts and technologies needed for the project. These are tracked through issues labelled as `research` in our issue tracker.

AI Subteam Contributions:

Student	Annotations
Fiza Sehar	242
Francine Bulaclac	292
Nawaal Fatima	192

These contributions are the images that the AI Subteam collected and annotated ALT text for, to be used as training data for our AI model. Fiza, Francine and Nawaal worked extensively on collecting and annotating images to create a robust dataset for training.

Backend Subteam Contributions:

Student
Dhruv Sardana
Moly Mikhail
Francine Bulaclac

Moly and Dhruv mainly worked on development of the frontend and backend codebase. They both created the initial structure of the codebase and implemented various functionalities to ensure smooth operation. All of them worked on a number of 9 fully functional APIs and have extensively contributed to the project's development.