Team Contributions: Rev 0
Software Engineering

Team 17, Team RAdiAIdance
Allison Cook
Ibrahim Issa
Mohaansh Pranjal
Nathaniel Hu
Tushar Aggarwal

1 Demo Plans

For our project software, we will be demonstrating the key features and functionalities. The main functionality we will demonstrate is the AI/ML model used to perform scans of chest X-rays make disease/condition predictions, and display these results on the web application.

We will also be demonstrating the natural language report generation functionality, performed based on the x-ray scan results.

2 Meeting Attendance

The following table shows the number of team meetings attended by each team member since the POC Demo on November 21, 2023. A total of four team meetings have been held since then *(according to the number of meeting issues in the team repo)*.

Student	Meetings
Total	4
Allison Cook	3
Ibrahim Issa	2
Mohaansh Pranjal	4
Nathaniel Hu	2
Tushar Aggarwal	2

Tushar Aggarwal was out of the country for the duration of the break till the start of the second week of classes.

3   Lecture Attendance

The following table shows the number of lectures attended by each team member since the POC Demo on November 21, 2023. A total of two lectures have been held since then *(according to the Google Calendar and the number of lecture issues in the team repo).*

Student	Lectures
Total	2
Allison Cook	2
Ibrahim Issa	1
Mohaansh Pranjal	1
Nathaniel Hu	2
Tushar Aggarwal	1

4   Commits

The following table shows the number of commits to the main branch that have been made by each team member since the POC Demo on November 21, 2023. A total of 16 commits were made by the entire team since then (according to the team repository's commit history). The proportion of commits made by each team member is also shown below (out of a total of 100%).
(This table does not include the commit count for this submission.)

Student	Commits	Percent
Total	16	100%
Allison Cook	2	12.5%
Ibrahim Issa	2	12.5%
Mohaansh Pranjal	5	31.3%
Nathaniel Hu	2	12.5%
Tushar Aggarwal	5	31.3%

The team member Nathaniel Hu has at least 3 commits on an unmerged branch (backend/feature/database-and-user-auth-mgmt) related to changes for connecting the application's frontend web pages to the backend database. This branch also involves the backend code for user authentication, patient data management and interfacing the backend with external IT systems (i.e. of participating medical institutions). As more changes are made, the number of commits will very likely go up as well by the time the branch is merged into the main branch.

5   Issue Tracker

The following table shows the number of issues authored and assigned to each team member. These numbers include open and closed authored issues, and closed assigned issues.

Student	Authored (O+C)	Assigned (C only)
Allison Cook	10	9
Ibrahim Issa	9	7
Mohaansh Pranjal	15	13
Nathaniel Hu	18	12
Tushar Aggarwal	56	55

6   CI/CD

In our project, CI/CD is currently used to manage the following workflows (GitHub Actions):

1. Create a branch from issue

2. Autolink the issue to the Pull Request on merge

3. Perform code checks: Run Linters and check formats and run some unit tests

4. Perform PR checks: If the template for the Pull Request is filled in properly such as adding labels, adequate comments are added and at least one issue is linked to a pull request.

The CI/CD will be further expanded upon and used to run more unit tests for PRs, automatically apply labels to PRs based upon code changes (e.g. frontend vs. backend vs. documentation code changes) and perform other pre-PR code checks.