Team Contributions: Rev 0
Software Engineering

Team #12, Streamliners
Mahad Ahmed
Abyan Jaigirdar
Prerna Prabhu
Farhan Rahman
Ali Zia

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

Our Rev 0 demo will demonstrate the complete system workflow and integration of all major components. The demo will begin with user sign-up and login using MAC address authentication, followed by event selection and registration. The flow will then incorporate event table/bus sign-ups with seat selection, demonstrating how users register for events and reserve available seats, followed by transaction processing through the payment system. The demo will also highlight role-based access control by presenting different user and administrator views, including the administrator dashboard for managing events, viewing registrations, and monitoring system activity. This end-to-end demonstration will show how the system supports event registration, payments, and management within a unified platform.

2 Team Meeting Attendance

Student	Meetings
Total	8
Mahad Ahmed	8
Abyan Jaigirdar	8
Prerna Prabhu	8
Farhan Rahman	8
Ali Zia	8

The team arranges meetings almost weekly, to clarify objectives and align on priorities on major deliverables, with additional meetings scheduled as needed, typically in the days leading up to major deadlines. We have held a total of eight meetings in the time period of interest. Every team member has been able to attend these meetings, even if occasionally arriving slightly late or needing to leave early.

3 Supervisor/Stakeholder Meeting Attendance

Supervisor's Name: Luke Schuurman

Student	Meetings
Total	2
Abyan	2
Ali	2
Farhan	2
Mahad	2
Prerna	2

Supervisor meetings were arranged when objectives and priorities needed to be clarified and all members attended those meetings.

4 Lecture Attendance

Between the POC demo and the Rev 0 demo, there has been approximately 1 lecture held as part of the course schedule.

Student	Lectures
Total	1
Mahad Ahmed	0
Abyan Jaigirdar	0
Prerna Prabhu	0
Farhan Rahman	0
Ali Zia	0

The team couldn't make the scheduled lecture because we believed the unpredictable weather made the commute unsafe and unreasonable for us that day, especially since majority of the team has 1.5+ hour commute one-way. Prerna, who lives closer to campus, could not attend either due to a scheduling conflict.

5 TA Document Discussion Attendance

TA's Name: Tiago de Moraes Machado

Student	Lectures
Total	2
Ali Zia	1
Abyan Jaigirdar	2
Mahad Ahmed	2
Farhan Rahman	2
Prerna Prabhu	2

During the time period between the PoC and Rev 0 document deadlines, there were two TA document discussion sessions, including the POC demo. Originally there were three sessions scheduled, but one was cancelled due to the university closure due to inclement weather. Ali was unable to attend one of the sessions as he was sick that day.

6 Commits

Student	Commits	Percent
Total	201	100%
Mahad Ahmed	70	20.40%
Abyan Jaigirdar	40	16.92%
Prerna Prabhu	87	23.87%
Farhan Rahman	88	18.91%
Ali Zia	42	19.90%

7 Issue Tracker

Student	Issues Assigned
Mahad Ahmed	23
Abyan Jaigirdar	15
Prerna Prabhu	28
Farhan Rahman	16
Ali Zia	16

One team member created and opened all issues for upcoming milestones and document sections. This was done intentionally to maintain a consistent issue structure and keep everything organized. During team meetings, these pre-created issues were reviewed based on how much time it would take and then assigned to team members evenly.

Because issue creation was done in this way, the column "O+C" (Opened and Closed Issues) does not accurately reflect the individual contribution. Instead, the key metric is just the number of issues assigned to each team member. Therefore, we have chosen to remove the "O+C" column and report only the Assigned (Closed) issues.

8 CICD

Continuous Integration and Continuous Deployment (CI/CD) will be used to keep the project stable and easy to maintain as new features are added. The team will use GitHub Actions to automatically build, and test the system.

For **Continuous Integration (CI)**, every time a pull request is opened, the pipeline will automatically run linting, type checks, and unit tests. This helps catch issues early and ensures that the codebase stays clean and consistent. It

will also build the project to make sure that new changes do not break existing functionality before they are merged.

For **Continuous Deployment (CD)**, after merging into the `dev` branch, a staging build will be automatically deployed for testing and feedback. When changes are merged into the `main` branch, a production build will be deployed. This keeps updates smooth and reduces the chance of deployment errors.

GitHub Actions will also send build or test failure notifications to the team so that problems can be fixed quickly. Environment variables and API keys will be stored securely using GitHub's built-in secret management. Over time, the team may expand the pipeline to include integration or end-to-end tests, but for now the main goal is to automate building and testing to save time and improve reliability.

9 Team Charter Trigger Items

9.1 Summary of Triggers

The team charter established several quantified triggers to help maintain accountability and ensure consistent contribution. These include:

- **Attendance:** Members are expected to maintain a 100% attendance rate for all scheduled meetings unless an acceptable excuse (such as a health issue or family emergency) is provided.
- **GitHub Activity:** Each member must demonstrate consistent GitHub activity every week, with issues actively in progress or commits made for review.
- **Task Completion:** All assigned work must be completed and delivered on time according to deadlines set during weekly meetings.

9.2 Trigger Violations

So far, the team has not experienced any major violations of the triggers outlined in the charter. All members have remained communicative, met deadlines, and maintained consistent GitHub activity. Minor delays in individual tasks have occurred occasionally, but these were communicated early and resolved collaboratively without impacting the overall progress.

9.3 Plan to Address Violations

If future violations occur, the team will follow the three-step escalation process defined in the charter:

1. First incident: verbal reminder during team meeting.
2. Second incident: discussion with the TA to address underlying issues.

3. Third or repeated incidents: escalation to the course instructor.

If the team finds that the current triggers are too strict or unclear, they will be revised by team consensus. For example, attendance expectations may be adjusted for legitimate scheduling conflicts, or contribution tracking may be clarified to account for non-coding tasks such as documentation or research.

10 Additional Productivity Metrics

No additional metrics of productivity.