

Team Contributions: POC Software Engineering

Team #16, The Chill Guys
Hamzah Rawasia
Sarim Zia
Aidan Froggatt
Swesan Pathmanathan
Burhanuddin Kharodawala

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

Our focus will be on the algorithm for the rideshares application, as well as McMaster email authentication. We will complete the workflow by verifying your McMaster email, creating a sufficient algorithm including certain parameters such as user schedule, location, and time. The users will be able to connect and complete a simple rideshare between a driver and one passenger. Both users will then receive the ride summary including a cost breakdown.

2 Team Meeting Attendance

Student	Meetings
Total	10
Hamzah Rawasia	9
Aidan Froggatt	8
Burhanuddin Kharodawala	10
Sarim Zia	8
Swesan Pathmanathan	10

3 Supervisor/Stakeholder Meeting Attendance

Supervisor's Name: N/A

Student	Meetings
Total	0
Hamzah Rawasia	0
Sarim Zia	0
Aidan Froggatt	0
Swesan Pathmanathan	0
Burhanuddin Kharodawala	0

We don't have a supervisor for the project and we have not conducted any meeting with our stakeholders currently.

4 Lecture Attendance

Student	Lectures
Total	12
Hamzah Rawasia	10
Aidan Froggatt	9
Burhanuddin Kharodawala	6
Sarim Zia	8
Swesan Pathmanathan	8

5 TA Document Discussion Attendance

TA's Name: Lucas Dutton

Student	TA Meetings
Total	5
Hamzah Rawasia	5
Sarim Zia	5
Aidan Froggatt	4
Swesan Pathmanathan	5
Burhanuddin Kharodawala	4

Members who missed any meetings had a valid reason which was shared with the team beforehand.

6 Commits

Student	Commits	Percent
Total	129	100%
Hamzah Rawasia	27	20.9%
Aidan Froggatt	27	20.9%
Burhanuddin Kharodawala	33	28.7%
Sarim Zia	32	24.8%
Swesan Pathmanathan	6	4.8%

We have many coauthored commits, also the commits are greatly varying in amount of content and time per contribution. Commits have been merged into main in a variety of differing formats which results in a smaller or greater number of commits than amount of content.

7 Issue Tracker

Student	Authored (O+C)	Assigned (C only)
Hamzah Rawasia	19	13
Aidan Froggatt	22	22
Burhanuddin Kharodawala	14	14
Sarim Zia	13	13
Swesan Pathmanathan	10	10

8 CICD

Hitchly employs a Continuous Integration and Continuous Deployment (CI/CD) pipeline using GitHub Actions and Docker to ensure consistent quality, reliability, and maintainability across all project components.

8.1 Continuous Integration

Every pull request triggers automated workflows that:

- Install dependencies via `pnpm` within the Turborepo monorepo.
- Run ESLint, Prettier, and TypeScript checks for code quality and type safety.
- Execute unit tests (Jest) and verify build integrity for the API and mobile app.

This guarantees that only validated, production-ready code is merged into the main branch.

8.2 Continuous Deployment

Successful merges to `main` trigger Docker-based deployments of the Express/tRPC API to the cloud environment and Expo EAS builds for the mobile client. Drizzle ORM migrations are automatically applied to synchronize the database schema with production.

8.3 Design Considerations

The pipeline emphasizes speed, consistency, and modularity. Turborepo caching reduces build times, Docker ensures environment reproducibility, and automated checks maintain project stability as new features are introduced.

9 Team Charter Trigger Items

Triggers included no more than 2 unexcused absences per term, each member should make regular commits and contribute to opening and closing issues, and review teammates work before submission. So far, we have not had any violations of triggers, as any members that were unable to attend a meeting or any other discussed rule informed the team ahead of time with a valid reason. Throughout the project, we will continue to assess the triggers we set in the team charter and modify them as appropriate when we find that they can be further improved and realistic for all members.

10 Additional Productivity Metrics

N/A