

Team Contributions: Rev 0

Software Engineering

Team #18, Gouda Engineers
Aidan Goodyer
Jeremy Orr
Leo Vugert
Nathan Perry
Tim Pokanai

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

- **Data Visualizations:** Implemented a data visualization system tab for bar chart generation, a selection UI for future chart types, and an interactive UI for user to configure options and metrics.
- **Natural Language Improvements:** Continued integration of LLM-based query generation and response for improved user interactions.
- **Docker:** Established robust Docker containerization for reproducible development and production deployments across team members' machines.

2 Team Meeting Attendance

Student	Meetings
Total	2
Leo Vugert	2
Nathan Perry	2
Tim Pokanai	2
Aidan Goodyer	2
Jeremy Orr	1

3 Supervisor/Stakeholder Meeting Attendance

Supervisor's Name: [Dr. Henry Szechtman and Dr. Anna Dvorkin-Gheva]

Student	Meetings
Total	1
Jeremy Orr	1
Nathan Perry	1
Tim Pokanai	0
Leo Vugert	1
Aidan Goodyer	1

Tim was unable to make the meeting as he was away on a trip. Our supervisor has been very busy and we have not been able to schedule another meeting with him since the last one. Weekly meetings will continue next week.

4 Lecture Attendance

Student	Lectures
Total	1
Jeremy Orr	0
Nathan Perry	0
Tim Pokanai	0
Leo Vugert	1
Aidan Goodyer	0

5 TA Document Discussion Attendance

TA's Name: [Tiago de Moraes Machado]

Student	Lectures
Total	0
Jeremy Orr	0
Nathan Perry	0
Tim Pokanai	0
Leo Vugert	0
Aidan Goodyer	0

No TA meeting due to snow day.

6 Commits

Student	Commits	Percent
Total	26	100%
Nathan Perry	9	34.6%
Aidan Goodyer	11	42.3%
Tim Pokanai	1	3.8%
Jeremy Orr	2	7.7%
Leo Vugert	3	11.5%

Tim has unaccounted commits from the module implementation assignment, where he committed changes to the Team 4's repo. Tim and Leo also have unaccounted commits from unmerged changes for data visualizations. Nathan has unaccounted commits from an unmerged change for the inventory page.

7 Issue Tracker

Student	Authored (O+C)	Assigned (C only)
Leo Vugert	2	0
Nathan Perry	0	0
Aidan Goodyer	3	0
Tim Pokanai	1	0
Jeremy Orr	1	1

Nathan has also been working on issues as well as trying to bring the professors vision for an "Inventory" page to life.

8 CICD

Our project utilizes GitHub Actions to implement a robust CI/CD pipeline consisting of three parallel workflows that handle security, documentation, and deployment.

- **Automated Security Scanning (CodeQL):** To ensure code quality, the CodeQL Advanced workflow triggers on every push and pull request to the main branch. It employs GitHub's CodeQL engine to perform static analysis on Python, JavaScript, and TypeScript files, identifying security vulnerabilities before code is merged.

- **Documentation as Code (buildtex):** Documentation is automatically compiled using the buildtex workflow. When changes are detected in the docs directory, the pipeline initiates a TeXLive 2024 environment to compile modified L^AT_EX files into PDFs. These PDFs are then automatically committed back to the repository, ensuring documentation remains synchronized with the source.
- **Continuous Deployment (Self-Hosted):** The Deploy RatBat2 workflow executes on a self-hosted runner directly on our production server. Upon a push to main, the pipeline injects secrets and uses Docker Compose to rebuild the application containers. The script includes conditional logic to deploy a Production environment (ports 80/443) for the main branch, or a Staging environment (ports 8080/8001) for development branches.

9 Team Charter Trigger Items

9.1 Trigger Items

1. Team member misses meeting without providing notice or reason
2. Team member misses meeting without providing an acceptable excuse
3. Team member's contributions do not hold up to the scrutiny of a peer review
4. Team member's contributions do not hold up to the team's final document review
5. Team member's attitude during meetings or discussion is detrimental to the team environment
6. Team member does not contribute their fair share of issues in the Kanban board

9.2 Violations

Refer to above section for corresponding trigger items. The violations will be summarized anonymously.

1. 0 violation.
2. 0 violations
3. 0 violations.
4. 0 violation.
5. 1 violation. Lack of seriousness in internal meeting, causing unproductive discussions and going over meeting time.
6. 0 violations.

9.3 Violation Plan

Refer to above sections for violation and trigger information

1. N/A
2. N/A
3. N/A
4. N/A
5. Communicate with team members about meeting expectations. Meetings should be taken seriously, otherwise we are just wasting each other's time.
6. N/A

10 Additional Productivity Metrics

N/A