Network Traffic Profiler Dashboard

Client - Plymouth City Council [Tomek Bergier]

Group 15

Team Leader - Amelia Lee Sze Yai
(write your full name & role pls:))
Scrum Master - Timothy Birtles
Tomiris
Sofia

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IMPORTANT NOTES

- Each section/subsection should have the names of the member who wrote it.
- Try to distribute according to team contributions (equally if possible, but if not, the ones who did less technical work should contribute more here).
- Recommended page number is around 80 pages. Upper limit is 100 pages (penalty if crossing this). There is no minimum page limit. The key point is to be concise.

1) Introduction (Sofia , Amelia)

– introduce client, problem statement, brief system requirements and any other necessary details on the project

2) Project Management (All members)

Project planning material (content from semester 1) (Unassigned)

Sprint planning and execution (Tim)

To ensure development remained aligned with both the initial design requirements and our client's requirements, the Agile methodology was adopted. This approach was selected for its emphasis on adaptive planning and capacity for rapid response to change (Kumar and Bhati, 2012).

Project management began with the creation of a comprehensive product backlog, which was split into Semester One and Semester Two milestones. We operated in biweekly sprints which provided an excellent balance between development and evaluation. During planning sessions, tasks were subdivided based on technical prerequisites and estimated completion time, ensuring the workload assigned to each cycle was realistic.

We utilised Trello as our primary Kanban style project management tool, providing a single location to track the project status. The project's Trello board was organised into columns, 'Backlog', 'In progress', 'Completed', in addition to individual columns for each weekly Scrum.

At the start of each sprint, we met to evaluate and refine the backlog, ensure tasks were still relevant, and delegate responsibilities based on expertise and time availability. Twice-weekly standup meetings were held which focused on progress and pitfalls, ensuring progress was not stalled by technical hurdles nor lack of communication.
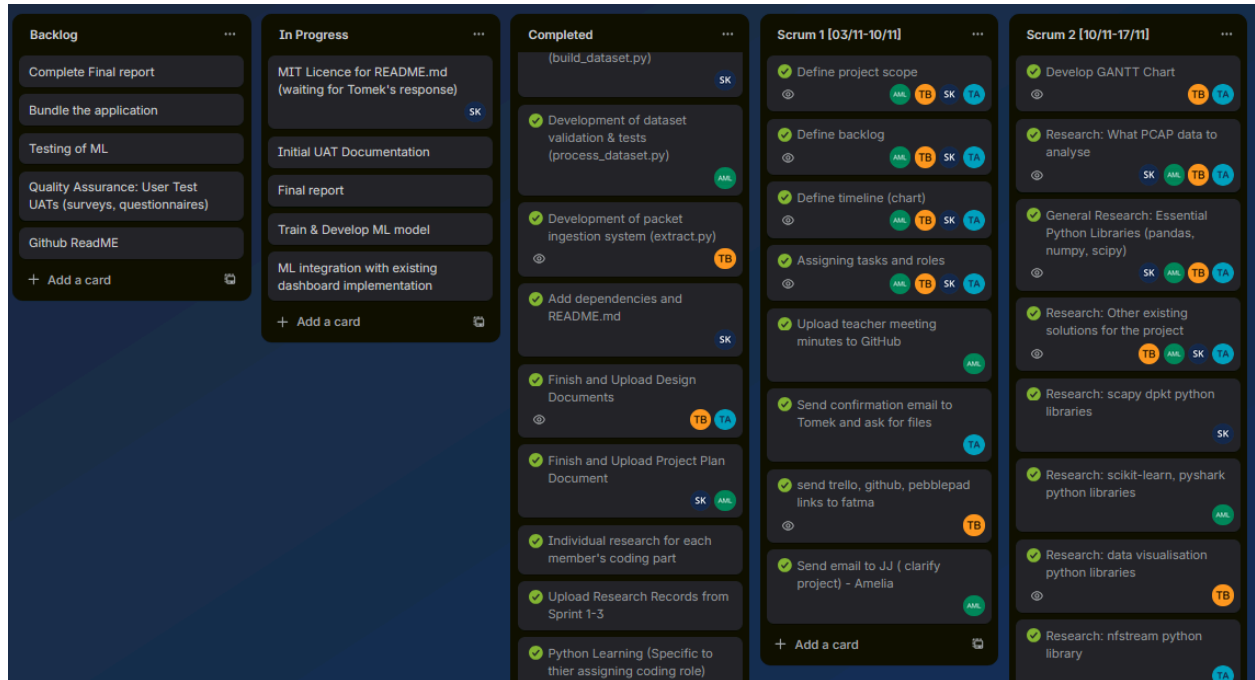
Figure 1 - Trello board snapshot

Risk assessment and mitigation (Sofia)

Project schedule (Tomi)

Client management (Amelia)

3) Detailed System Design (Tim & Tomi)

– user story, ERD, prototype screenshots, HIPO chart, state diagrams, DFDs, sequence diagrams flowcharts, UML etc. Screenshots of snippets that you think are important can be placed here as well, but no need for full source code, just link to git repo.

Potential code snippets: Extract pcap data, ML training?

4) Quality Assurance (Sofia & Amelia)

– surveys, questionnaires, documentation on unit test, UAT on methodology, results, post-project support and any other quality assurance measures taken.

5) Conclusion (Tim, Tomi)

– summarize your project achievements and merits.

6) References (3 References Each)

– any referenced sites/papers you cited within your report. Recommended 10-15 References.

Kumar, G. and Bhati, P.K. (2012) 'Impact of Agile Methodology on Software Development Process,' International Journal of Computer Technology and Electronics Engineeri, 2(4). https://www.researchgate.net/profile/Gaurav-Kumar-175/publication/255707851_Impact_of_Agile_Methodology_on_Software_Development_Process/links/00b49520489442e12d000000/Impact-of-Agile-Methodology-on-Software-Development-Process.pdf.

7) Appendix

– attach the 1000 word CW Submission Evidence and Evaluation file for each member as appendix. This will not count towards the page limit.