**Software Engineering**

Reflection:

***1. Introduction***

* We have created a program for a newsagent, to help manage and organize the process of organizing the newsagent’s system, making it easier to manage each aspect of it’s business.
* We went with the Agile methodology, because we were preparing ourselves to adapt to any changes or problems that could occur during the assignment.

***2. Team Dynamics and Roles***

* The team consisted of Padraig, Ben, Michael, and Liam.
* I feel the team had a slow start settling in, in the beginning but by the end we worked well as a team.
* We distributed the workflow by each class where we each work on a different section of the project, each person worked on a class of their own, then merged them all together to connect with each other.

***3. Sprint/Iteration Summary***

* The work was divided across Four sprints with each consisting of Two Weeks. We updated the work consistently through GitHub, assigning and marking Tasks.
* Sprint 1: We created User stories, acceptance criteria and test design for each entity in the project, started the designing and setting up the project (classes, Sql, etc.)
* Sprint 2: We Implemented the Create Feature for each entity along with implementing Exception handling.
* Sprint 3: We Implemented The Read and Delete Features. Some basic Tidying and optimization.
* Sprint 4: We Implemented the Update Feature, created JUnits and tested them against the project. Finalized the Project DEMO.

***4. Agile Practices and Tools***

* Reflect on Agile practices used:
* Daily stand-ups or meetings during labs (aligned with the marking scheme).
* Sprint planning and retrospectives.
* Mention tools employed for collaboration, tracking progress, and version control (e.g., Git, Jira, or Trello).
* Evaluate how these practices/tools contributed to project management.

***5. Successes and Strengths***

* Detail areas where the team excelled, such as:
* Motivation and drive to get each part done in a timely manner.
* Task Management, we always made sure we understood which part each of us should be working on, on a weekly basis.
* Weekly meetups, and frequent communication between the group.
* Making sure all scripts were able to work well together and commented.

***6. Challenges Faced***

* We face some challenges working on this project, for example:
* Estimating how long each task should take.
* We had difficulties staying within the scope of the project.
* We had issues with some parts of the code where we had to rework our scripts to be connected to one menu script.

***7. Lessons Learned***

* Highlight key insights from the project:
* Agile improved team collaboration and adaptability.
* Importance of user-focused design, especially for non-technical users like newsagents.
* Value of breaking complex systems into smaller, testable features.

***8. Conclusion***

* Summarize the project outcomes, including how well the final system met the requirements.
* Reflect on the overall effectiveness of the Agile methodology and what your group might do differently in future projects.
* Optionally, acknowledge the effort and contributions of the entire team.