

**Coursework (Group project)**

“Employee Management System”

**Module: -** [CST2550 Software Engineering Management and Development](https://mdx.mrooms.net/login/index.php?saml=on)

**Lab Tutor: -** Ahmed Eissa (Module Leader)

Adam Philpot

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**Group Members** (The Six-Coders System)

1.Chanchlani Akshar Hemant Bhai (Leader)

2.Patel Abhi Jagdish Kumar (Coder)

3.Galani Viren Suresh Bhai (Coder)

4.Jani Ayush Chirag Kumar (Tester)

5.Mistry Yash ()

6.Nirmala Suhas Manjunath ()

**Introduction**

We describe in this report the process by which our group collaborated to develop a C++ project for our Advanced Programming Techniques class. We decided to use Scrum to manage our work, which allowed us to hold regular meetings and maintain the project on schedule. We held five primary meetings, some virtually and some in person, to go over our progress and determine what has to be done next. These sessions were essential to ensuring that we were aware of our responsibilities and could work together to resolve any issues. After this introduction, we will go into greater depth about each of the five sessions to demonstrate how our project was developed from the beginning to the end.

**Project meetings overview**

**First meeting:** (face-to-face at the library)

**Goals:** Outlining the project's goals and scope, assigning team roles, and doing preliminary planning.

**Conversations:** Akshar, the scrum master, gave an overview of the project and its objectives. thorough explanation of the needed technologies and system specifications, including C++ for development, and Catch2 for testing. establishing meeting agendas and communication methods.

**Results:** Clearly defined roles within the team for the coders Viren and Abhi, the designer (also tester) Ayush, and the tester Yash and Suhas. Establish the project's first schedule and benchmarks.

**Meeting 2**: Zoom-enabled online First Sprint Review

**Goals:** Evaluate accomplishments in relation to starting points, resolve issues, and devise a plan for the following actions.

**Conversations:** Every participant gave an update on their work, including the construction of basic test cases, backend logic development, rough design drafts. identifying the first obstacles, in particular problems with backend.

**Results:** choices taken to improve the integration procedure. In order to improve data handling, Abhi and Viren were given more jobs. There are new due dates for the updated tasks.

**Meeting 3:** Zoom-facilitated online mid-project review

**Goal**: Evaluate midway progress, refine project scope based on input, and adjust as necessary.

**Conversations:** Examining the connection between the front(login) and back ends. Ayush provided a thorough study of the design's usability, while Yash (and Suhas) used the findings of Yash's tests to provide feedback. Talk about enhancements and new features following the initial stages of testing.

**Results:** Minor scope changes to improve functioning were agreed upon. outlined strategies for the last stage of integration and thorough testing.

**Pre-final review at Meeting 4** (online via Zoom)

**Goal:** Complete project development and get ready for the final testing and documentation sprint.

**Conversations:** Code and design components are finalized and reviewed. Talk about the thorough testing strategy with Catch2 made in response to test findings. Getting ready for documentation, with an emphasis on the documentation for the Make file and tests.

**Results:** Distributed last tasks with an emphasis on performance enhancements and bug repairs. Establish deadlines for finishing the test files and Make file detailing as well as the documentation.

**Meeting 5:** Face-to-Face Project Closure Meeting in the College Library   
Goals: Wrap up the project, go over the finished item, and talk about the submission procedure.

**Conversations:** The system's final presentation after completion. Every document, including the Catch2 test files, Make file setup, and code comments, has been reviewed. A discussion of the project process and a feedback session.

**Results:** Project approved in its entirety and prepared for submission. Collaboration efforts are acknowledged, and possible enhancements for next projects are discussed.

**Conclusion**

This well-organized summary of every meeting document the progress of the project and exemplifies the agile project management methodology by showing how your team overcame obstacles and worked well together in both in-person and virtual meetings. The project's development and the crucial role that each team member played during the development stages are both well-illustrated in this manner.