

Progress Report

- Increment 1 -

Group 14

1) Team Members

Samantha Bui

- sb21bn
- samanthabui

Ludginie Dorval

- lld22
- Ludginie

Antonio Garriga

- jaf21m
- a-garriga

William Lee

- wl23f
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Lillian Malik

- lam22g
- lillianmalik

2) Project Title and Description

ManuFactor is a software solution designed to streamline accounting processes for manufacturing companies. It provides tools for Cost-Volume-Profit (CVP) analysis and budgeting for production. Admin users have the ability to list/add users, list/add data. Users have the ability to list/add data. Viewers have the ability to list data. The system integrates and database management, role-based user access, and secure authentication. By providing a straightforward tool for handling essential accounting tasks, ManuFactor enhances efficiency and accessibility in manufacturing operations.

3) Accomplishments and overall project status during this increment

Essential features, such as automated Cost-Volume-Profit (CVP) analysis and production budgeting, have been successfully implemented. Additionally, the user role system (Admin, User, and Guest) has been set up, providing secure access control through encrypted files. Our next steps involve finalizing the integration of the front-end and back-end, as well as completing the outstanding HTML files.

4) Challenges, changes in the plan and scope of the project and things that went wrong during this increment

- The most significant challenge encountered was the merging of our code and the establishment of clear roles within the team. To address this, we held bi-monthly meetings to discuss our tasks and set clear objectives for the completion of each increment.
- The initial plan aimed to have the front-end and back-end merged by the end of this first increment. However, due to scheduling conflicts among team members, insufficient time was available to complete this task. Fortunately, the scope of our goals for increments 1 and 2 was relatively light,

which ensures that achieving the objectives for increment 1, alongside the tasks for increment 2, remains feasible.

- A technical issue related to the MySQL password hindered our ability to test the code as thoroughly as originally planned. This issue was resolved during our final meeting; however, resolving the problem consumed a significant portion of the meeting time, resulting in our delay in the merging of the front-end and back-end.
- The front-end logic was tested independently from the back-end logic, and the back-end logic was tested independently from the front-end logic. As of Increment I, we have not fully integrated the front-end logic with the back-end logic. However, as we progress, we will be sure to integrate efficiently, so that we can fully implement (RBAC) and encryption.

5) Team Member Contribution for this increment

Please list each individual member and their contributions to **each of the deliverables in this increment** (be as detailed as possible). In other words, describe the contribution of each team member to:

- a) the **progress report**, including the sections they wrote or contributed to
- b) the **requirements and design document**, including the sections they wrote or contributed to
- c) the **implementation and testing document**, including the sections they wrote or contributed to
- d) the **source code** (be detailed about **which** parts of the system each team member contributed to and **how**)
- e) the **video or presentation**

Samantha Bui

- a) the **progress report**: Finalized description about Cost-Variable-Profit, Budgeting, RBAC, Encryption to specify admin, user, viewer functionality. Contributed to challenges by elaborating challenges of integration between front-end logic and back-end logic, specifically in testing. Contribution to next increment, prioritizing integration between back end and front end to validate stored credentials. Contributed to personal section.
- b) the **requirements and design document**:
- c) the **implementation and testing document**:
 - a. Documented the front-end logic of RBAC, explaining how user access was restricted based on role assignments before full database integration.
 - b. Explained how RBAC functioned independently from the database in this increment, describing how role-based access was verified in the front-end before linking it to back-end data.
- d) the **source code**: Provided an overview of RBAC implementation and encryption efforts, explaining how user roles were structured and the importance of securing sensitive data.
- e) the **video or presentation**: Helped summarize the challenges and next steps, particularly regarding the pending database integration and finalizing database functions for seamless interaction between front-end and back-end.

Ludginie Dorval

- a) the **progress report**:
- b) the **requirements and design document**:
- c) the **implementation and testing document**:
- d) the **source code**:
- e) the **video or presentation**:

Antonio Garriga

- a) the **progress report**:
- b) the **requirements and design document**:
- c) the **implementation and testing document**:
- d) the **source code**:
- e) the **video or presentation**:

William Lee

- a) the **progress report**:
- b) the **requirements and design document**:
- c) the **implementation and testing document**:
- d) the **source code**:
- e) the **video or presentation**:

Lillian Malik

- a) the **progress report**: Lillian was primarily responsible for drafting the majority of the IT document, and provided assistance for section 5.

- b) the **requirements and design document**: Lillian was responsible for the complete development of the RD document, as well as the creation of the associated use-case, class, and sequence diagrams.
- c) the **implementation and testing document**: Lillian was primarily responsible for drafting the first and second sections of the IT document, and assisted with sections 3, 4, and 5.
- d) the **source code**: Due to Lillian's limited experience with SQL and databases, she did not contribute to the development of the source code. However, in future increments, Lillian will focus on contributing to the CSS and HTML components of the project.
- e) the **video or presentation**:

6) Plans for the next increment

During the upcoming increment we will complete the remaining HTML files and implement the Budgeting Production feature, along with improvements for the user experience. We will also conduct thorough testing to ensure the stability of the system. On top of this, we plan to initiate discussions on the design of the User Interface through the CSS files and evaluate the inclusion of changelogs.

Along these lines, we will be prioritizing integration between the back-end logic, front-end logic, database, and HTMLs. We will do this by prioritizing connecting front-end to back-end through the database function so user authentication is validated against stored credentials. Possibly standardize MySQL authentication settings across all development environments.

7) Stakeholder Communication

Subject: Progress Update on ManuFactor – Increment 1

Dear Stakeholder,

I am writing to provide an update on the progress of ManuFactor, our web-based accounting platform.

Current Status:

We are nearing completion of Increment 1. Key features, including automated Cost-Volume-Profit (CVP) analysis and production budgeting, have been implemented. The user role system (Admin, User, and Guest) has been established, ensuring secure access control. Our remaining tasks include finalizing the front-end and back-end integration and completing the remaining HTML files. Testing will follow to ensure proper functionality.

Challenges:

The primary challenge encountered was the delayed integration of the front-end and back-end components, due to scheduling conflicts within the team. While this task was initially planned for completion by the end of Increment 1, it has been pushed to Increment 2. However, this adjustment does not impact the overall project timeline, as the scope of Increment 2 remains manageable.

Next Steps:

In the upcoming increment, we will finalize the front-end integration, complete the remaining HTML files, and add the Budgeting Production feature, as well as various user compatibility features. Comprehensive testing will also be conducted to ensure system stability.

Thank you for your continued support. Should you have any questions, please do not hesitate to reach out.

Best regards,
Group 14, ManuFactor

8) Link to video

Paste here the link to your video.