

Delta between Milestone 1, 2 and 3

Milestone 1:

SRS notes:

- “Web-based application with backend and frontend components” was the only component in the Operating Environment
- There were only 4 use cases in milestone 1
- The wireframes are very broad and basic
- In the product backlog, there was nothing started yet

Summary:

In milestone 1, we had a lot of meetings about what we would like to achieve in this project, and who will be working in each section. We came to the final conclusion that Hari, Lance and Lawrence would work in the backend side of the project, and Laura and Saksham will work in the frontend side of the project. We used milestone 1 as a chance to get to know each other and know each others knowledge and skills in each of the areas to make informed decisions on who would do what tasks. We worked on the user stories and created some wireframes to get an idea of what our website was going to look like. We also started making the database so we could get a head start on milestone 2.

Milestone 2:

SRS notes:

- The new operating environment looked like this:

2.4 Operating Environment

- Web-based application with backend and frontend components.
 - Specifications:
 - **Code Repository:** Github
 - **Task Management:** Github Project
 - **Group Communication:** Microsoft Teams
 - **Documentation:** Office 365 online
 - **CI/CD tool:** Github Action
 - **Java version:** 17
 - **Back-end framework:** Spring Boot
 - **Front-end framework:** Node.js
 - **Build tool:** Maven
 - **Data-base:** H2-console with Flyway Data migration
 - **Unit testing framework:** Junit4 for Java, Front-end manual testing framework .
 - Docker for configuration management
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- We added 7 new user stories, mostly to do with the database and continuous integration
- The systems architecture was implemented into the SRS document
- We added an extra 4 use case's
- The product list and sign in page were added the the wire frames and were made a little more specific instead of being broad
- In the product backlog, out of 16, 5 were in progress, and 4 were completed
- The burndown chart was quite good, with only a couple tasks not completed in the time we had hoped

Summary:

In milestone 2, we made huge changes to our project and got quite a long way into the development of the front and back ends. We created the backend almost fully, as well as the front end. We had a lot of issues in this milestone, which required lots of meetings and working together to get through the errors, merge conflicts and debugging. We made sure to update our project board whenever we finished a task or had to add a task. We changed the database from H2 to SQL, which was a big change and took a lot of work. We added a user sign up and sign in page as well which worked with the backend. Compared to milestone 1, we made a lot more progress in this milestone and saw a lot more change and development, which was expected.

Milestone 3:

SRS notes:

- We added a user story for sign up, and an extra user story for database
- We added one more use case for sign up
- All of the wire frames were updated and made a lot more accurate according to our actual website vision

- Everything in the product backlog was completed
- The burn down chart was a lot better executed than milestone 2, everything was completed by the last day of the sprint

Summary:

In milestone 3, we went above and beyond and tried our best to do the “optional” section of the requirements. This meant that we were happy with our other implementations for milestone 3 and felt that we, as a team, could work even harder than we already were to create extra developments to our program. We didn’t have as many meetings for this milestone than the other milestones, but we felt okay with this, and only had a meeting when we felt that we needed to update the group on any developments, or needed to check in. We worked really hard on this milestone, as well as the others, and we are all very proud of each other for our contributions overall for this project.