Group Venus

2nd Delivery: Development Sprint

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Contents

1 Introduction

This report aims to document our groups experiences with the groups first design sprint. We will be covering the following topics:

2 Technical background

This section aims to describe the following terms:

2.1 Agile development[2]

Agile software development is software that is developed according to the ideas and values presented in the Manifesto for Agile Software Development[6]. The manifesto presents the following core ideas:

- Individuals and interactions over processes and tools
- Working software over comprehensive documentation
- Customer collaboration over contract negotiation
- Responding to change over following a plan

The manifesto is based on ideas created by the Agile Alliance in 2001, this is a group of 17 software developers.

2.1.1 Scrum[9]

Scrum is a type of agile methodology. The methodology was created in 1986 and widely popuralized after the manifesto for agile software development was published.

2.1.2 Scrumwise[10]

Scrumwise is a service for managing a scrumboard. Scrumwise claims it is "The easiest Scrum tool you'll find", while this has not been substansiated in any meaningfull way the tool is used by many.

2.1.3 Scrum master

The leader of a scrum project is often refered to as the scrum master. It is the scrum masters task to remove obstacles and streamline the teams development processes.

2.2 Development sprint[12]

A development sprint, also known as a Timebox is the process of allocating a time constraint to reach a goal. These time constraints usually consists of a week to a month of time. Timeboxes are great for mitigating risk as per Parkinson's law[7]

2.3 Backlog[3]

A backlog usually refers to an accumulation of unfinished work.

2.4 React[8]

React is JS[5] framework for component based development of websites.

2.4.1 Component based development[4]

Component based development also known as Component based software engineering is a method of software development that aims for components of software to be loosely coupled and reusable. Component based development is an essential part of any agile workflow.

2.5 Vite[13]

Vite is a local development server aimed at developing web applications.

2.6 Pull Request[1]

A Pull Request is a proposal to merge one branch with another, usually from different forks of the same repository. This project heavily relies on pull requests as this allows the scrum master to maintain the intergrity of the project.

3 Sprint Goal

We had the goal of making a functional application, with navigational options, that we could use as a base for the next sprint by the end of this week. The result of this week was a functional app, where you can navigate several pages. Certain design elements have not been implemented, but is a good base to continue our work with.

4 Backlog

This is the current backlog for the project, see *Figure 1 and 2*.

- Text input component is a work in progress.
- Login modal missing integration with project.
- Hypothetical reports on what can go wrong and access control solutions.
- React routing.
- Create Image slideshow component.

Figure 1: Our backlog

Figure 2: An image of a scrumwise backlog

5 Time

5.1 Participation

This is information grabbed from the "Time used in this sprint" page on scrumwise.

5.1.1 Joar Heimonen

Joar Heimonen is the scrum master of this project.
Heimonen implemented the following:

- Created a Readme file for GitHub
- Selected an open source license
- Created a basic layout using either css-grid or flexboxes
- Created different layout components
- Added example pages
- Refactored Navigation bar
- Created a slideshow component

5.1.2 Iselin Skorpen

Iselin made the Logo and created a mockup of the design and layout of the home page. This was to get a feel for how the website was going to look and function for future creation. The Navigation bar was made by Iselin. This report was also written by Iselin as well as Joar.

- Created a logo.
- Created a mockup of the home page.
- Created a mockup of the navigation bar.
- Created the Navigation bar.

5.1.3 Salim Said

Salim started implementing a Text input component and a login modal. This needs integration into the application to function with everything else. Said also wrote a document that "defines security practices and standards that will guide the development process"[11]. This document has yet to be accepted into the main branch of the repository.

- Created a text input component.
- Created a Login modal.
- Wrote a documentation about security practices and standards for the development process.

5.1.4 Mostafa Mohammadi

Mostafa Mohammadi did not show.

5.1.5 Ibrar Hussain

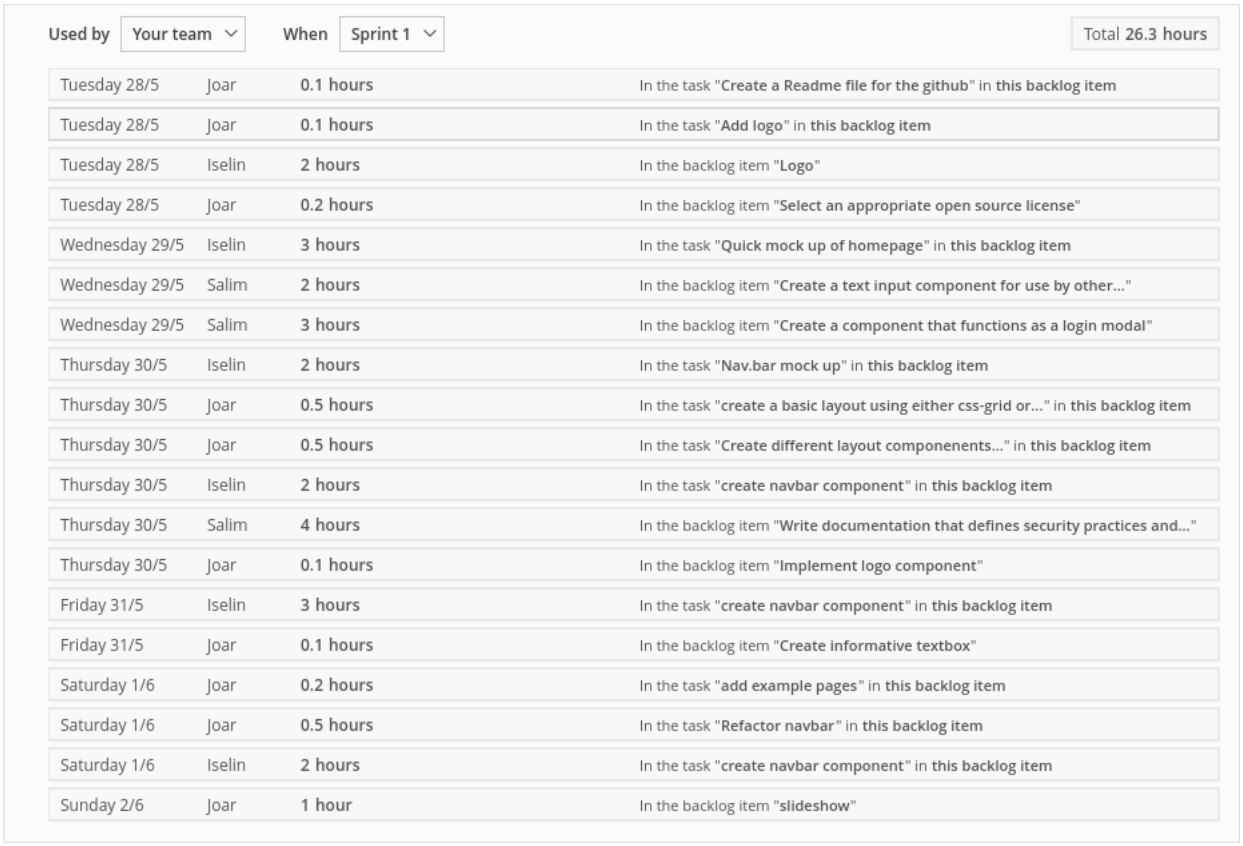
Ibrar Hussain did not show.

5.1.6 Hassan Ali Bokhari

Hassan Ali Bokhari created a fork of the project, and did not show for the main duration of the sprint.

5.2 Time list

For a picture of our time list see *Figure 1*, in addition to the time list we spent about 8 hours in various meetings within the group.



Used by Your team When Sprint 1 Total 26.3 hours

Tuesday 28/5	Joar	0.1 hours	In the task "Create a Readme file for the github" in this backlog item
Tuesday 28/5	Joar	0.1 hours	In the task "Add logo" in this backlog item
Tuesday 28/5	Iselin	2 hours	In the backlog item "Logo"
Tuesday 28/5	Joar	0.2 hours	In the backlog item "Select an appropriate open source license"
Wednesday 29/5	Iselin	3 hours	In the task "Quick mock up of homepage" in this backlog item
Wednesday 29/5	Salim	2 hours	In the backlog item "Create a text input component for use by other..."
Wednesday 29/5	Salim	3 hours	In the backlog item "Create a component that functions as a login modal"
Thursday 30/5	Iselin	2 hours	In the task "Nav.bar mock up" in this backlog item
Thursday 30/5	Joar	0.5 hours	In the task "create a basic layout using either css-grid or..." in this backlog item
Thursday 30/5	Joar	0.5 hours	In the task "Create different layout componenents..." in this backlog item
Thursday 30/5	Iselin	2 hours	In the task "create navbar component" in this backlog item
Thursday 30/5	Salim	4 hours	In the backlog item "Write documentation that defines security practices and..."
Thursday 30/5	Joar	0.1 hours	In the backlog item "Implement logo component"
Friday 31/5	Iselin	3 hours	In the task "create navbar component" in this backlog item
Friday 31/5	Joar	0.1 hours	In the backlog item "Create informative textbox"
Saturday 1/6	Joar	0.2 hours	In the task "add example pages" in this backlog item
Saturday 1/6	Joar	0.5 hours	In the task "Refactor navbar" in this backlog item
Saturday 1/6	Iselin	2 hours	In the task "create navbar component" in this backlog item
Sunday 2/6	Joar	1 hour	In the backlog item "slideshow"

Figure 3: An image of a scrumwise time list

5.3 Burndown graph

The burndown graph flattened out due to group members adding new tasks to the sprint as we progressed this can be seen in *Figure 1.*

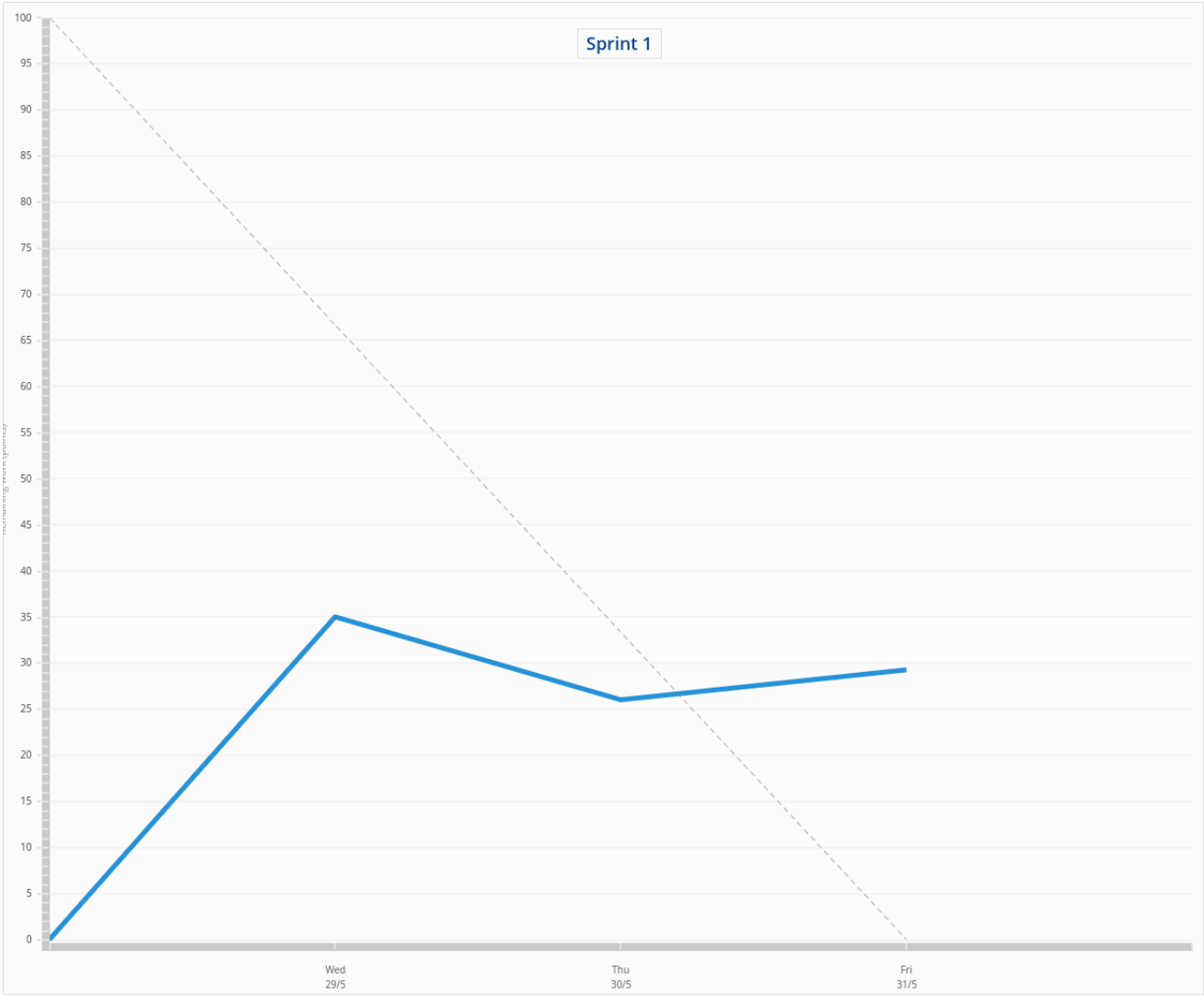


Figure 4: An image of a scrumwise burndown graph

6 Reflection

This section will anwser the following questions:

- Could you have done anything differently?
- What were you particularly satisfied with?

6.1 Could you have done anything differently?

Improving our team communication and collabaration could have improved our workflow a lot. Ensuring that everyone was on the same page when starting production of our application. We should've had a more refined sketch done beforehand to improve clarity and end goal.

6.2 What were you particularly satisfied with?

We achieved our goal of developing a functional application, which will serve as a foundation for the next week's sprint. This weeks work provides us with a solid, low cost base which we can utilize to its fullest to continue our development.

7 Notes

It is worth noting that group participation has been lower than we expected. Our stack was escpecially selected to allow for component based development but this was not neccesary as the volume of Pull Requests were much lower than anticipated.

References

[1] *About Pull Requests*. https://docs.github.com/en/pull-requests/collaborating-with-pull-requests/proposing-changes-to-your-work-with-pull-requests/about-pull-requests. (Visited on 06/02/2024).

[2] "Agile Software Development". In: *Wikipedia* (May 2024). (Visited on 06/02/2024).

[3] "Backlog". In: *Wikipedia* (Oct. 2022). (Visited on 06/02/2024).

[4] "Component-Based Software Engineering". In: *Wikipedia* (May 2024). (Visited on 06/02/2024).

[5] *ECMA-262*. (Visited on 06/02/2024).

[6] *Manifesto for Agile Software Development*. http://agilemanifesto.org/. (Visited on 06/02/2024).

[7] "Parkinson's Law". In: *Wikipedia* (Apr. 2024). (Visited on 06/02/2024).

[8] *React*. https://react.dev/. (Visited on 06/02/2024).

[9] "Scrum". In: *Wikipedia* (Dec. 2023). (Visited on 06/02/2024).

[10] Scrumwise. *Scrum Tools / Scrum Software*. https://www.scrumwise.com. (Visited on 06/02/2024).

[11] *Show-It/Docs/Security Practices and Standards for the Development Process at Patch-1 · Yg400/Show-It*. https://github.com/yg400/show-it/blob/patch-1/docs/Security%20Practices%20and%20Standards%20for%20the%20Develop (Visited on 06/02/2024).

[12] "Timeboxing". In: *Wikipedia* (Apr. 2024). (Visited on 06/02/2024).

[13] *Vite*. https://vitejs.dev. (Visited on 06/02/2024).