**Project Plan**

***Watch2gether Clone***

|  |
| --- |
| **Date : 08/03/2024** |
| **Version : 1.0** |
| **Author : Yordi Kremer** |

#### Version history

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Author(s)** | **Changes** |
| 1.0 | 08/03/2024 | Yordi Kremer | 1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 3.1, 3.2, 4.1, 4.2, 5.1 |
| 1.1 | 22/03/2024 | Yordi Kremer | 1.4 |
|  |  |  |  |

Contents

[1. Project assignment 3](#_Toc160792667)

[1.1 Context 3](#_Toc160792668)

[1.2 Scope and preconditions 3](#_Toc160792669)

[1.3 Strategy 3](#_Toc160792670)

[1.4 Research questions and methodology 3](#_Toc160792671)

[2. Project organisation 4](#_Toc160792672)

[2.1 Stakeholders and team members 4](#_Toc160792673)

[2.2 Communication 4](#_Toc160792674)

[3. Activities and time plan 5](#_Toc160792675)

[3.1 Phases of the project 5](#_Toc160792676)

[3.2 Time plan and milestones 5](#_Toc160792677)

[4. Testing strategy and configuration management 6](#_Toc160792678)

[4.1 Testing strategy 6](#_Toc160792679)

[4.2 Configuration management 6](#_Toc160792680)

[5. Finances and risk 7](#_Toc160792681)

[5.1 Risk and mitigation 7](#_Toc160792682)

# Project assignment

## Context

I will be creating a platform where a user can watch youtube videos in sync with other people. The user will be able to create a room and then invite other people to watch the videos with.

## Scope and preconditions

*<<What activities and which end products (to what extent or quality) belong to the project, and which don’t.>>*

|  |  |
| --- | --- |
| **Inside scope:** | **Outside scope:** |
| 1. Web application | 1. Long term support |
| 1. Backend solution |  |
| 1. Database |  |
| 1. Project Plan |  |
| 1. Research Document |  |

## Strategy

The strategy for the project’s development is Scrum. We will be having 6 sprints this semester each consist out of 3 weeks. From 04/03/2024 till 21/06/2024. At the end of each sprint, I will have a sprint delivery where I show my work from the sprint to my teachers. After each sprint I make a new plan for the upcoming sprint.

## Research questions

“How can I create a platform where people can watch YouTube videos in sync across multiple devices?"

* What architecture is best suited for my projects requirements?
* What programming languages and frameworks are available for a good quality streaming service platform?
* What level of latency performance is considered acceptable for a streaming service to ensure a satisfactory user experience?

# Project organisation

## Stakeholders and team members

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Abbreviation** | **Email** | **Role and functions** | **Availability** |
| *Jeffrey Cornelissen* | *J.C.* | *jeffrey.cornellisen@fontys.nl* | *Product owner* | *Monday afternoon, Wednesday morning* |
| *Marc Grootel* | *M.C* | *marc.vangrootel@fontys.nl* | *Technical teacher* | *Monday afternoon, Thursday afternoon* |
| *Tülin Erçelebi Ayyildiz* | *T.E.A* | *t.ercelebiayyildiz@fontys.nl* | *Semester Coach* | *Monday morning, Thursday morning* |
| *Yordi Kremer* | *Y.K* | *y.kremer@student.fontys.nl* | *Group member* | *Monday, Wednesday, Thursday* |

## Communication

At the beginning of every sprint, I discuss the sprint goals with our product owner and at the end of each sprint I have a sprint delivery to present my work from the sprint and receive feedback. I will also have a conversation with our technical teachers and semester coach every week to receive feedback on my project. And I will update my feedpulse every 2 weeks.

# Activities and time plan

## Phases of the project

*<< Describe the main phases of your project. Even in a scrum project, you should specify at least the components at the beginning and end phases like problem analysis in the beginning, as well as handover, evaluation, reflection, and wrap up at the end.*

*For internship projects, reserve sufficient time for developing/maintaining the portfolio/thesis.*

*>>.*

## Time plan and milestones

*<< For a waterfall project you can indicate the phases and milestones below (can be adapted as required).*

*For an agile project, describe how the artefacts are planned. E.g., length of sprint (with justification), organization of stand up, demo, retrospective.*

*>>*

|  |  |  |
| --- | --- | --- |
| **Sprint / Phase** | **Start date** | **Finish date** |
| 1. Project Plan | 04/03/24 | 24/03/24 |
| 1. Research & Design | 25/03/24 | 14/04/24 |
| 1. Design & Development | 15/04/24 | 05/05/24 |
| 1. Design & Development | 06/05/24 | 26/05/24 |
| 1. Development & Tests | 27/05/24 | 16/06/24 |

# Testing strategy and configuration management

## Testing strategy

Testing will take place on every level to ensure the functionality of the developed solution. Ideally, the goal is to have full coverage of the code. Using CI/CD I intend to automate the testing of the solution. Additionally, I will also utilize SonarQube to ensure the quality of the software.

## Configuration management

In my branching strategy I will be using the following branches:

* **Main branch:** holds the latest stable version of the solution
* **Develop branch:** main development branch, will be continuously updated with the latest features developed
* **Feature branches:** offshoot branches from the “develop” branch. New features are developed in their own separate branch to prevent merge conflicts with other developers. After finishing a feature, the relevant feature branch is merged back into “develop” and removed after code review.

# Finances and risk

## Risk and mitigation

|  |  |  |
| --- | --- | --- |
| **Risk** | **Prevention activities** | **Mitigation activities** |
| 1. Missing delivery deadlines | Check canvas regularly for deadlines | Adjust project plan and discuss the problem with the teachers. |
| 2 Overcomplicate the project | Explicitly define the scope of the project so its clear where my priorities lie | Adjust project plan and discuss the problem with the teachers. |
| 3 Teachers are sick | This risk is not preventable | Ask teachers for feedback trough an email or an online meeting. |
| 4 Getting sick | This risk is not preventable | Ask teachers for feedback trough an email or an online meeting. |
| 5 Not getting feedback | Regularly plan meetings with my teachers for feedback | Talk with them why I did not have the meeting or ask them for feedback online. |