Quantified Student

Project plan



Created by N.Geilen

Updated by G. Malisz & J.Maas

# Content

[Content 1](#_Toc129212502)

[Version History 2](#_Toc129212503)

[1. Introduction 3](#_Toc129212504)

[2. Stakeholders 4](#_Toc129212505)

[3. Team 4](#_Toc129212506)

[4. Goal 5](#_Toc129212507)

[4.1. Project Goal 5](#_Toc129212508)

[4.2. Semester Goal 5](#_Toc129212509)

[1. Sub-projects 6](#_Toc129212510)

[1.1. Gateway 6](#_Toc129212511)

[1.2. Data sources 6](#_Toc129212512)

[1.3. Dashboard 6](#_Toc129212513)

[2. Team agreement 7](#_Toc129212514)

[2.1. Standups / Scrum Board 7](#_Toc129212515)

[3. Deliverables 8](#_Toc129212516)

[4. Definitions, Acronyms, and Abbreviations 9](#_Toc129212517)

# 

# Version History

| Version | Date | Author | Comment |
| --- | --- | --- | --- |
| 0.1 | 06-04–2022 | N.Geilen | Start document |
| 0.2 | 14-04-2022 | N.Geilen | Changes after feedback stakeholder and group members |
| 0.3 | 26-04-2022 | J.Maas | Improve introduction |
| 0.4 | 27-02-2023 | G. Malisz | Changes for the new team and semester |

# 

# Introduction

The Quantified Student (QS for short) project focuses on helping students with their development and optimizing their performance with the help of collected data. The collected data will be shown in a dashboard where the student can see it. After which, the student can conclude where and how to improve their workflow. For example, the system can show when it is the best time to work for the student.

# 

# Stakeholders

Our stakeholder for this project is Eric Slaats.

# Team

Our group representative is Jelle Maas who fills the role of scrum master during meetings. Other members of the projects are:

|  |  |  |
| --- | --- | --- |
| Name | Email | Role |
| Grzegorz Malisz | g.malisz@student.fontys.nl |  |
| Jelle Maas | jelle.maas@student.fontys.nl |  |
| Michał Raczkowski | m.raczkowski@student.fontys.nl |  |
| Thijmen Brand | thijmen.brand@student.fontys.nl |  |

# 

# Goal

## Project Goal

Quantified Student has the goal to help students optimize their performance. We want to achieve this with the help of data gathering and presentation of the data to the student.

## Semester Goal

The goal of this project for this semester is to connect available API’s and data sources to dashboard through gateway. The data will be presented in a visual way to the end-user on a dashboard that is integrated into Canvas.

# Sub-projects

## Gateway

The Gateway will be the brains of the QS project. It will receive all the data from all connected data sources and the dashboard can ask the Gateway for processed data.

The most important things for the Gateway are the following.

* **Scalability**: The Gateway will have multiple data sources that will provide data. It needs to be easy to add new data sources.
* **Security**: Due to the highly sensitive data, the connected sources can generate, it is necessary to adhere to modern security standards.
* **Privacy**: Due to the highly sensitive data and personal data, the connected sources can generate, it is necessary to follow the [GDPR](https://gdpr.eu/). **The data from a student will not be shared with Fontys or teachers/coaches or other third parties and services.**

## Data sources

QS will use multiple different data sources to gather data. The base of these data sources will consist of the following.

* Canvas
  + Canvas holds all the information about a student's assignments and grades. This data is an indicator of how good the student is doing
* Open Data
  + Open data is a broad source of public information. This can be weather information or public transit delays.

To determine all kinds of data that would be collected we could start a sub-project that will research all other projects for data.

## Dashboard

The web application that will visualize the data is going to be integrated into Canvas. This application will be placed inside canvas with the help of the LTI interaction that Canvas has. The dashboard will need to have the same three main points as the Gateway. Mainly, the scalability of the dashboard is important so that new data sources could be visually presented.

# 

# Team agreement

Within the team, we have agreed to the following:

## Standups / Scrum Board

* Standups are on location at Strijp-TQ every Monday.
* Kanban board on

# Deliverables

* An application that will be the base of QS. It is going to gather and process data.
* An application that can visualize the data inside Canvas with the help of LTI.

# 

# Definitions, Acronyms, and Abbreviations

|  |  |
| --- | --- |
| Abbreviation | Meaning |
| TBD | To be discussed |
| QS | Quantified Student |
| LTI | The integration technique that we will use to add an application to Canvas |
| Gateway | Main part of QS that is gathering and processing data |