# Project Pitch

## Pirates

# Team

| Name | Student number | Email |
| --- | --- | --- |
| Laura Stampf | 2701672 | l.i.m.stampf@student.vu.nl |
| Lennart Schulz | 2734873 | l.k.m.schulz@student.vu.nl |
| Dovydas Vadišius | 2744980 | d.vadisius@student.vu.nl |
| Maria Paula Jimenez Moreno | 2692270 | m.p.jimenezmoreno@student.vu.nl |

# Overview

GitHubMiner is a CLI tool that enables extraction and interpretation of information from GitHub repositories.

**Main features** include:

- ❏ accessing of private repositories by means of authorization
- ❏ creation of metrics from extracted information
- ❏ [Bonus] generation of a written report with notable metrics (template or AI generated)
- ❏ saving and switching between previously accessed repositories

# Overview

**Main type of users** include:

- software developers
  - advanced programming skills
  - experience with coding projects and GitHub
  - interested in detailed metrics from GitHub repository
- administrators
  - lead teams of software developers
  - interested in high-level information and possibility to compare data

# Functional features

| ID | Short name | Description | Champion |
|---|---|---|---|
| F1 | GitHub Interface | As a software user I want the application to be able to access public and private repos. | Laura |
| F2 | Data Extraction | As a software user I want the application to automatically extract and save information about commits that is needed for further processing so that I don't have to do it manually from the GitHub Interface. | Maria |
| F3 | Data Interpretation | As a software user I want the application to calculate metrics (number of lines added/deleted, number of files modified, number of merges, top collaborators, and statistics about which days had the most commits) so that I don't have to interpret raw data myself to get this information. | Dovydas |
| F4a | Data Representation | As a software user I want to see the data in a structured way so that I can concentrate on the information relevant to me. | Lennart |
| F4b | Interactive Interface | As a software user I want the application to have an interactive interface such that I can view different information (metrics/repos) without restarting the application. | Lennart |
| F5 | Accounts | As a software user I want the application to store and reload my repos and access token so that I don't have to enter the information again every time I use the application. | Laura |
| F6 | [Bonus] Report Generation | As a software user I want to be able to get a written report (PDF, A4 format) so that I can share the information with non-users of the application. | Lennart |
| F7 | [Bonus] Spreadsheet Files | As a software user I want to export data as csv files so that it can be used with spreadsheet programs and integrated into existing workflows. | Dovydas |

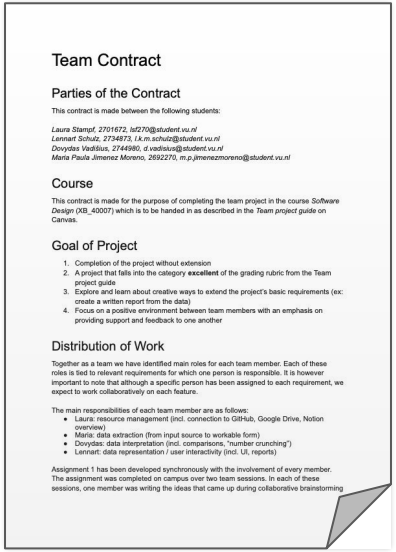
# Quality requirements

| ID | Short name | Quality attribute | Description |
|---|---|---|---|
| QR1 | Formatted Commands | Reliability | The system **must** validate the syntax of user commands. |
| QR2 | Extendable Metrics | Maintainability | The system **should** be extendable by only changing the existing code in one place (list of available metrics) and adding a new file for the new metric. |
| QR3 | Help page and error messages | Usability | The system **should** provide users with a help page and error messages such that the user knows what the possible options are. |

# Time log

| **Team number** | 25 | | |
|---|---|---|---|
| | | | |
| **Member** | **Activity** | **Week number** | **Hours** |
| Lennart | Define general concept + start making presentation | 1 | 3 |
| Laura | Define general concept + start making presentation | 1 | 3 |
| Maria | Define general concept + start making presentation | 1 | 3 |
| Dovydas | Define general concept + start making presentation | 1 | 3 |
| Lennart | Team contract + presentation preparation | 2 | 2 |
| Laura | Team contract + presentation preparation | 2 | 2 |
| Maria | Team contract + presentation preparation | 2 | 2 |
| Dovydas | Team contract + presentation preparation | 2 | 2 |
| | | **TOTAL** | 20 |

# Signed contract



## Team Contract

### Parties of the Contract

This contract is made between the following students:

*Laura Stampf, 2701672, ls270@student.vu.nl*
*Lennart Schulz, 2734873, l.k.m.schulz@student.vu.nl*
*Dovydas Vadišius, 2744980, d.vadisius@student.vu.nl*
*Maria Paula Jimenez Moreno, 2692270, m.p.jimenezmoreno@student.vu.nl*

### Course

This contract is made for the purpose of completing the team project in the course *Software Design* (XB_40007) which is to be handed in as described in the *Team project guide* on Canvas.

### Goal of Project

1. Completion of the project without extension
2. A project that falls into the category **excellent** of the grading rubric from the Team project guide
3. Explore and learn about creative ways to extend the project's basic requirements (ex: create a written report from the data)
4. Focus on a positive environment between team members with an emphasis on providing support and feedback to one another

### Distribution of Work

Together as a team we have identified main roles for each team member. Each of these roles is tied to relevant requirements for which one person is responsible. It is however important to note that although a specific person has been assigned to each requirement, we expect to work collaboratively on each feature.

The main responsibilities of each team member are as follows:

- Laura: resource management (incl. connection to GitHub, Google Drive, Notion overview)
- Maria: data extraction (from input source to workable form)
- Dovydas: data interpretation (incl. comparisons, "number crunching")
- Lennart: data representation / user interactivity (incl. UI, reports)

Assignment 1 has been developed synchronously with the involvement of every member. The assignment was completed on campus over two team sessions. In each of these sessions, one member was writing the ideas that came up during collaborative brainstorming