

# Project Pitch

Pirates

# Team

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# 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
- ❑ generation of a written report with notable metrics (template or AI generated)
- ❑ comparisons of metrics between multiple repositories
- ❑ saving and switching between previously accessed repositories

# Overview

## Main type of users include:

- ❑ software users
  - ❑ little to no proficiency in coding
  - ❑ interested in basic background knowledge of git repository
- ❑ 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	Connection with GitHub and authorization for private repos	Laura
F2	Data Extraction	Using git log to extract and save needed information -> interfacing with F3	Maria
F3	Data Interpretation	Extracting relevant metrics from the data	Dovydas
F4	Data Representation	Format the data in a structured way and provide a user interface for interaction (incl. status bar for loading data)	Lennart
F5	Report Generation	Generate a written report about relevant metrics	Lennart
F6	Spreadsheet Files	Export data as csv files to be used with spreadsheet programs	Dovydas
F7	Data Comparisons	Compare metrics from different repositories -> consisting of two parts: data backend + interface front-end	Lennart

# Quality requirements

ID	Short name	Quality attribute	Description
QR1	Formatted commands	Reliability	When the user issues a command, the syntax of the command should always get validated
QR2	Extendable Metrics	Maintainability	The set of data and metrics used should be easily extendable.
QR3	Extendable Interface	Maintainability	The set of user accessible functions (e.g., types of data representations) should be easily extendable
QR4	Meaningful Colors	Usability	Colors should be used to help convey the information and its organization
QR5	Help Page	Usability	A help page shall be included to show instructions on how to use the software
QR6	Error Message	Usability	Descriptive error messages should be provided for both developers and users in case of errors
QR7	Response Time	Responsiveness	A fast response time to user queries should be provided by preprocessing the data once the repository is loaded.
QR8	Data Protection	Security	A user's GitHub credentials will be discarded after the session

# Time log

<b>Team number</b>	25		
<b>Member</b>	<b>Activity</b>	<b>Week number</b>	<b>Hours</b>
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
		<b>TOTAL</b>	20

# Signed contract

## Team Contract

### Parties of the Contract

This contract is made between the following students:

*Laura Stampf, 2761672, l.s270@student.vu.nl  
Lennart Schütz, 2734873, l.a.m.schutz@student.vu.nl  
Davydes Vadišus, 2744980, d.vadišus@student.vu.nl  
Marie-Pauline Jämsen-Mönnich, 2692270, m.p.jaemsmonnich@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)
- Marie: data extraction (from input source to workable form)
- Davydes: 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