UNIVERSITY OF AMSTERDAM

PSE PROJECT

# PSE

June 4, 2024


*Students:*
Auteur 1
UvAnetID student 1

Auteur 2
UvAnetID student 2

*Tutor:*
Naam van de tutor

*Group:*
Naam van de groep

*Course:*
Naam van de cursus


## Contents

# 1 CodeView definition

The software is a website where the user can be either the submitter or reviewer. The submitter uploads code parts, and the software uses LLM models to summarize the feature of the code, and highlight parts where might have a problem. The reviewer writes feedback based on the output of LLM, and sending it back to the submitter. Based on the feedback, the submitted could grade the reviewer with useful or not useful.

# 2 Tech stack

- **Front-end**: Figma, SolidJS, HTML, CSS, JavaScript
- **Back-end**: Flask framework, python
- **Database**: SQLite
- **LLM**: OpenAi api
- **Git**: Github
- **Server**: Digital Ocean?

# 3 Program flow

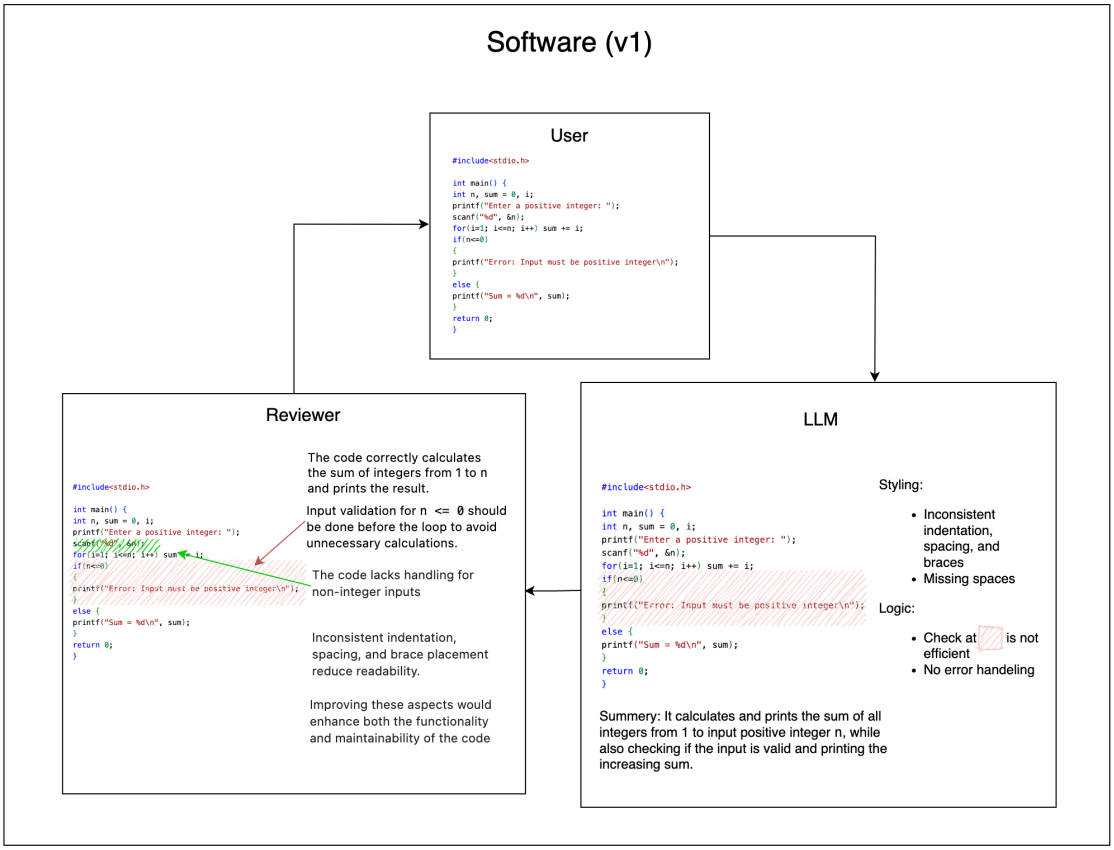


Figure 1: Software (v1): basic version with simple input code

# 4 Structure of the software

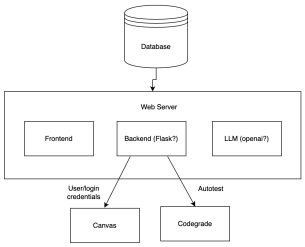


Figure 2: Tech (v1): basic version of the structure of software

# 5 Role

| Role/Feature | Name |
|---|---|
| Front-end | Finn, Duco, Kevin |
| Back-end | Adam, Martijn, Max, Janou |
| Database | |
| LLM | Marijn, Scott |
| Scrum | |
| Git | |

Table 1: Workload division for the project

# 6 Git flow

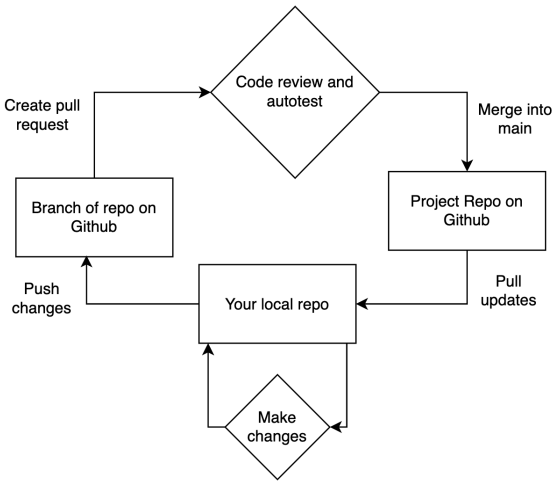


Figure 3: Workflow in Git and Github to control the version and changes

# 7 Database design

# 8 OOP relation design

# 9 LLM design

# 10 Planning of deliverables

- **Week 1:**
  - Frontend: Global design done
  - Frontend: All non interactive pages done
  - Frondend: Logo done
- **Week 2:**
  - Frontend: Interactive pages done such as the code hightlighting and suggestion boxes
- **Week 3:**
  - Frontend: Mess around do nothing
- **Week 4:**

# 11 Todo list

Pages to make: Algemeen:

- Login page (URL: /login)
- Acount settings (URL: /settings)
- register page (URL: /register)

Student:

- Landing page: vakken overview (URL: /overview)
- Per vak → waarop je kan inleveren en naar de reviews gaan (URL: /hand_in)
- Pagina voor de review bekijken (URL: /view_review)
- Pagina om de review te maken (URL: /make_review)
- Overview van review page (URL: /overview)

Teacher:

- Teacher pagina om opdrachten te maken (URL: /create)
- Opdrachten beheren (URL: /manage)

Login page documentation reference: https://www.geeksforgeeks.org/how-to-add-authentication-to-your-app-with-flask-login/

# 12 Idea list

1. Different responses from LLM:
    - saying there are three styling issue in this part of code
    - saying there might be one or more error in this part of the code
    - sating there is a indentation, extra empty space, and braces placement issue.
2. Software name:
    - Peerview
    - Rever
    - Feeder
    - CodeCheck
    - PeerBack
    - PeerFeed
    - CodeReview
    - CodeView
    - CodeLearn
    - GradeReview
3. TikTok swipe style showing the code of interest
4. Seperate login pages for students and teachers
5. Maybe consider possibility of different user submitting things at the same time (for example waiting output from LLM)

# A Bijlage LaTeX code

Bijgevoegd zijn de code en bibliografie.