thws

**Technical University
of Applied Sciences
Würzburg-Schweinfurt**

Project documentation for the portfolio exam

Tim Knüttel (5123101)   Adrian Stelter (5123031)
Laurin Neubert (6824016)   Jakob Hämmelmann (5123113)

February 13, 2025

1   Introduction of the Project Topic

1.1   Domain

The domain of our project is a social media platform like X (formerly Twitter), Threads or Bluesky. Our goal for the project is to create a platform that enables users to interact with one another through means of text posts. The main objective here is to give users the opportunity to interact not only by posting their own posts, but also to give feedback through likes and comments. Tags help the users to find posts based on interests or topics.

1.2   Use Cases

1.2.1   Posts

The central and most important use case for our project is the ability for users to post text posts. When posting, users should be able to fill their post with content, also it should be visible which user posted at what exact time.

1.2.2   Replies & Likes

Users should be able to interact with posts directly by replying to and "liking" them. This gives users the ability to converse on the platform and discuss their favorite topics. Additionally, replying keeps all the different posts together, so there can be an easy understanding of which post is a new topic and which post was written in response to an already existing topic.

1.2.3   Tags

Tags can be used to link a topic to the created post. By searching for posts tagged with the desired topic, users can easily find posts that are relevant to what they wish to converse about. This is designed to increase the usability and also user retention.

2   Description of the Software Architecture

3   Explanation of the API Technology

4   Implementation Details

5   Testing Strategy

6   Learning Outcomes and Reflection

Laurin's notes: next time, more time planning before we start coding (esp. when the API-technology is not yet picked); smaller goals that can be achieved quicker so we can support earlier in the process if someone needs help; utilising Git to it's full potential (namely creating milestones and issues;)

Caption

This article was drafted and refined using GPT-4 based on an outline containing related information. The GPT-4 output was reviewed, revised, and enhanced with additional content. It was then edited for improved readability and active tense, partially using Grammarly.