BOĞAZİÇİ UNIVERSITY

SOFTWARE ENGINEERING PROGRAM

SWE 573.01

2023/2024-2

Turkdil - Final Report

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STUDENT ID: 2022719144

DATE: 20.05.2024

Honor Code:

Related to the submission of all the project deliverables for the Swe573 2024 Spring

semester project reported in this report, I Mustafa Tuna declare that:

- I am a student in the Software Engineering MS program at Bogazici University and

am registered for Swe573 course during the Spring 2024 semester.

- All the material that I am submitting related to my project (including but not limited to the project

repository, the final project report, and supplementary documents)

have been exclusively prepared by myself.

- I have prepared this material individually without the assistance of anyone else

with the exception of permitted peer assistance which I have explicitly disclosed in

this report.

Mustafa Tuna

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1. Overview

Welcome to the Milestone Report for SWE-573 Spring 2024 Final Project of Mustafa Tuna. Here you can find the relevant information about the project.

1.1 About the Project

The project is based on Spring Boot Backend and Nuxt3 Frontend.

Github link:

https://github.com/tunayev/SWE573-MustafaTuna

The deployment link:

http://78.141.194.85:3000/

Installation instructions

1. Clone the repository
2. Open backend folder
3. Run "maven clean install"
4. run docker-compose up

Login information

Your can test the platform via:

username: mtuna61@gmail.com

password: 123123

2. Software Requirements Specifications

2.1 Authentication and Authorization

- Users shall provide unique credentials (username and email) and password to register to the platform. (completed)
- Users shall be able to login to the system by giving their username/email and password. (completed)
- Passwords shall be securely hashed and stored using industry-standard encryption algorithms to protect user credentials from unauthorized access. (completed)
- The system shall implement access control mechanisms to ensure that users can only access features and data appropriate to their authorization level. (completed)
- Permissions shall be granularly defined, specifying access levels for individual features and functionalities within the platform to ensure precise control over user actions. (completed)
- There shall be 3 roles: user, moderator and administrator. (completed)

2.2 User Profile

- Users shall be able to have username, email, name, surname, avatar and interests. (not completed)
- User shall have the ability to customize their name, surname, avatar, username and interests according to their preferences.(not completed)

2.3 Moderation and Community Management

- Users shall have the ability to create and moderate communities within the system. (completed)
- The moderator role shall only be assigned or detached by administrators. (completed)
- Moderators shall be authorized to manage community content, including the ability to remove posts, ban users and set community rules. (not completed)
- Users shall have the capability to report inappropriate content or behavior within communities, triggering moderator intervention and action. (not completed)
- Communities shall have the option to establish and enforce community guidelines, providing clarity on acceptable behavior and content standards. (not completed)
- The system shall incorporate automated moderation features, such as spam filters and content flagging, to assist moderators in maintaining community standards. (not completed)

- Users in the community shall have the ability to implement voting systems for content moderation, allowing community members to collectively moderate content through upvotes and downvotes. (not completed)
- Users affected by moderation actions shall have the option to appeal decisions, initiating a review process by administrators. (not completed)

2.4 Content Creation

- Users shall be able to create posts. (completed)
- Only the post owner shall be authorized to edit and delete the post other than moderators. (completed)
- Moderators shall be able to create content templates. (completed)

Community Creation

- A user shall be able to create community. (completed)
- A community can be private or public. (completed)

2.5 Feed Feature

- The system shall generate a personalized feed for each user based on their interests, subscribed communities and interaction history. (not completed)
- The feed shall aggregate content from subscribed communities and users, presenting a diverse range of posts, discussions and updates to the user. (not completed)
- Users shall be able to filter and sort their feed based on various criteria, such as post popularity, recency to customize their browsing experience. (not completed)

Search Functionality

- The system shall offer a search function that enables users to find relevant content and communities efficiently. (completed)
- Users shall have access to an advanced search module for more refined search queries. (completed)

- Advanced search module shall provide filters such as "from:date - to:date", "in:community", "by:user". (not completed)
- Search results shall be sortable by date and filterable by community. (not completed)

2.6 Device and Platform Support

- The system shall be accessible on various devices and platforms, including desktop and mobile. (completed)
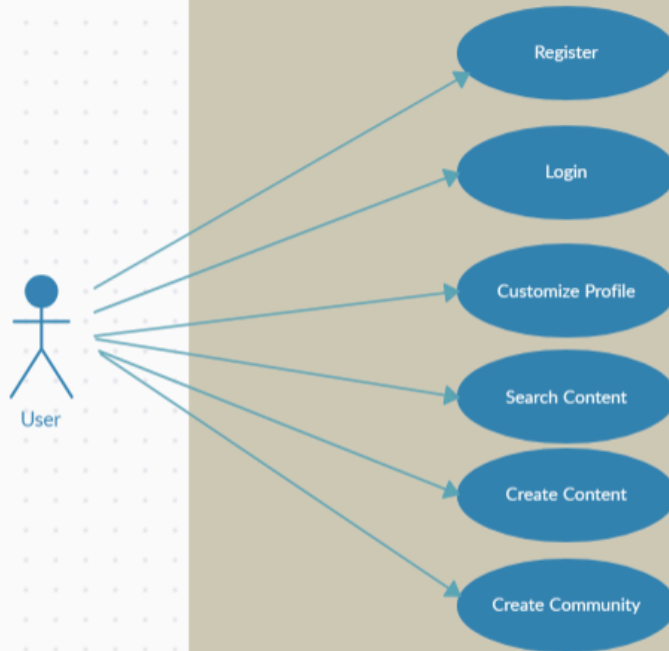
2.7 Privacy and Security

- Users shall be required to provide explicit consent before their data is collected, processed, or shared for purposes other than essential platform functionality, such as targeted advertising or analytics. (not completed)
- The system shall use HTTPS protocol for secure data transmission (not completed)
- The system shall perform input validation on all user-provided data to prevent injection attacks (eg.: SQL injection, XSS), ensuring that only valid and safe data is processed by the server. (completed)
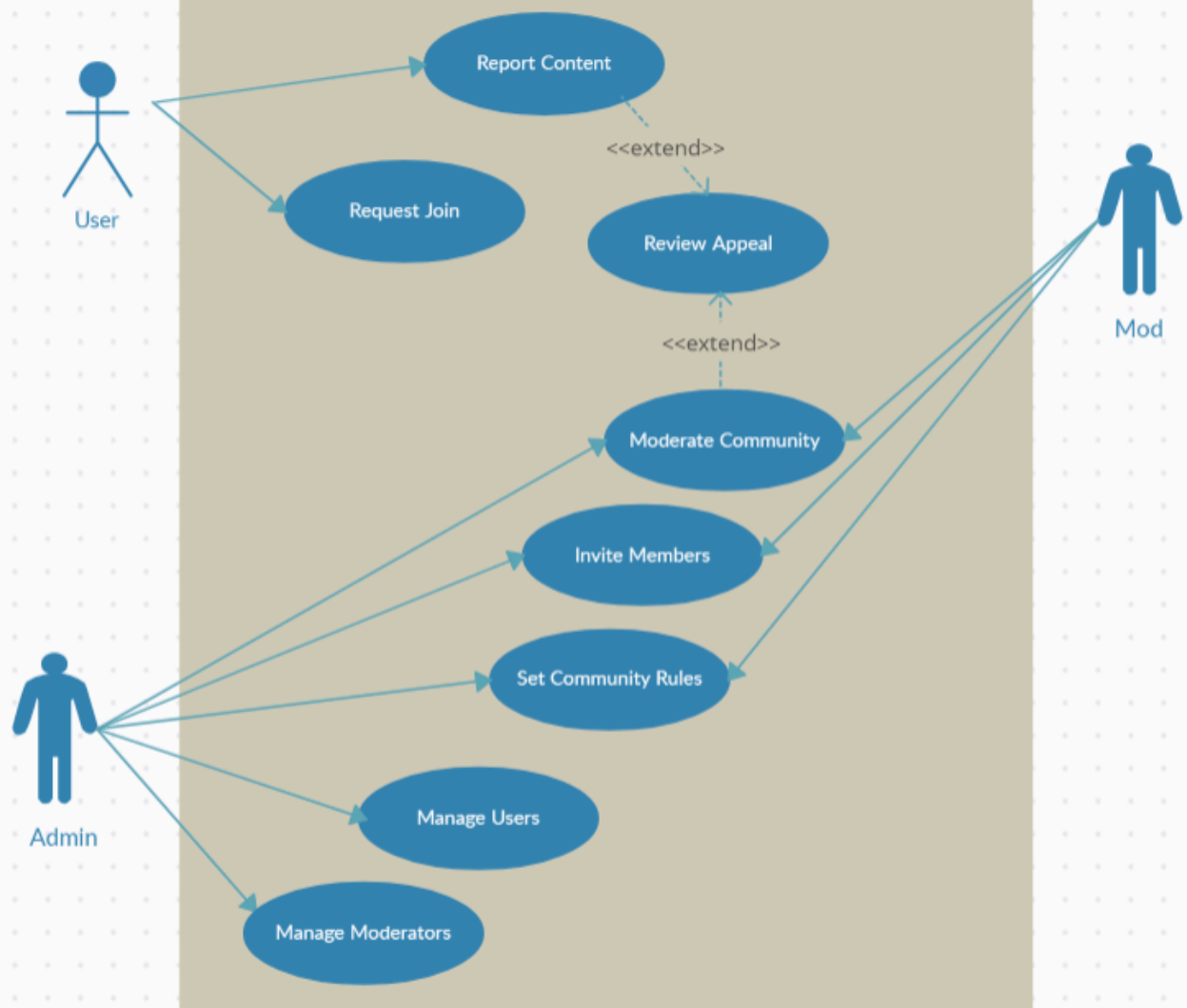
3. Design Documents

3.1 Use Case Diagrams

User Perspective

User

Register

Login

Customize Profile

Search Content

Create Content

Create Community

Interactions

User

Report Content

Request Join

Review Appeal

<<extend>>

<<extend>>

Moderate Community

Invite Members

Set Community Rules

Admin

Manage Users

Manage Moderators

Mod

3.2 Mockups

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GİRİŞ

Email

Şifre

GİRİŞ

turkdil

KAYIT

İsim

Soyisim

Kullanıcı adı

Email

Şifre

KAYIT OL

İsim

Soyisim

Email

Şifre

GÜNCELLE

Topluluk ismi

Gizli ▼

Davet Gönder

Moderatörler...

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Arama terimi...

Topluluk...

Yazar

Ara

Topluluklarım

Almanca > Gramer (3)

Almanca > Yazma Yardımı (6)

Çince (32) Mod

Urduca (2) Admin

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turkdil

Gelişmiş

user

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Topluluklarım

Almanca > Gramer (3)

Almanca > Yazma Yardımı (6)

Çince (32) Mod

Urduca (2) Admin

Son Yazılanlar...

Almanca > Gramer

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4. User Tests

4.1. User Registration

1. Navigate to the registration page.
2. Enter a unique username.
3. Enter a valid email address.
4. Enter a secure password.
5. Click the "Register" button.

4.2 User Login

1. Navigate to the login page.
2. Enter the registered username or email.
3. Enter the correct password.
4. Click the "Login" button.

4.3 Community Creation

1. Log in to the platform.
2. Navigate to the "Create Community" page.
3. Enter the community name and description.
4. Select whether the community is public or private.
5. Click the "Create" button.

4.4 Template Creation

1. Log in to the platform.
2. Navigate to the communities page.
3. Click gear icon on the community you have created
4. Select "add template"
5. Add the fields
6. Save the template

4.5 Join Community

1. Log in to the platform.

2. Navigate to the communities page.

3. Click the join button

4.5 Post Creation

1. Log in to the platform.

2. Navigate to a community page that you have joined

3. Click the "Create Post" button.

4. Enter the post title and content.

5. Click the "Submit" button.