Software Requirements Specification

for

UOLP Chat

Version 1.0 approved

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Revision History

Name	Date	Reason For Changes	Version
Mhd Hadi Said Alkaddour Abubakar Bammami Isa Fethi Öcalan	15/04/2024	Initial submission	1.0

- ## Introduction

Purpose

This document outlines the UOLP Chat website, a platform designed to connect UOLP program students. It will detail the website's purpose, features, user interfaces, functionalities, and how it will respond to user interactions. This document serves as a guide for the capabilities of UOLP Chat, and will be presented to Dr. Varol for approval. UOLP Chat aims to be a place where students can share ideas and connect, for both new and experienced UOLP students.

Document Conventions

Throughout this document, the following conventions have been used:

- Font: - Times New Roman
- Font Size: 18 for Main Headings
- Font Size: 14 for Sub Headings
- Font Size: 12 for the rest of the document

Intended Audience and Suggestions

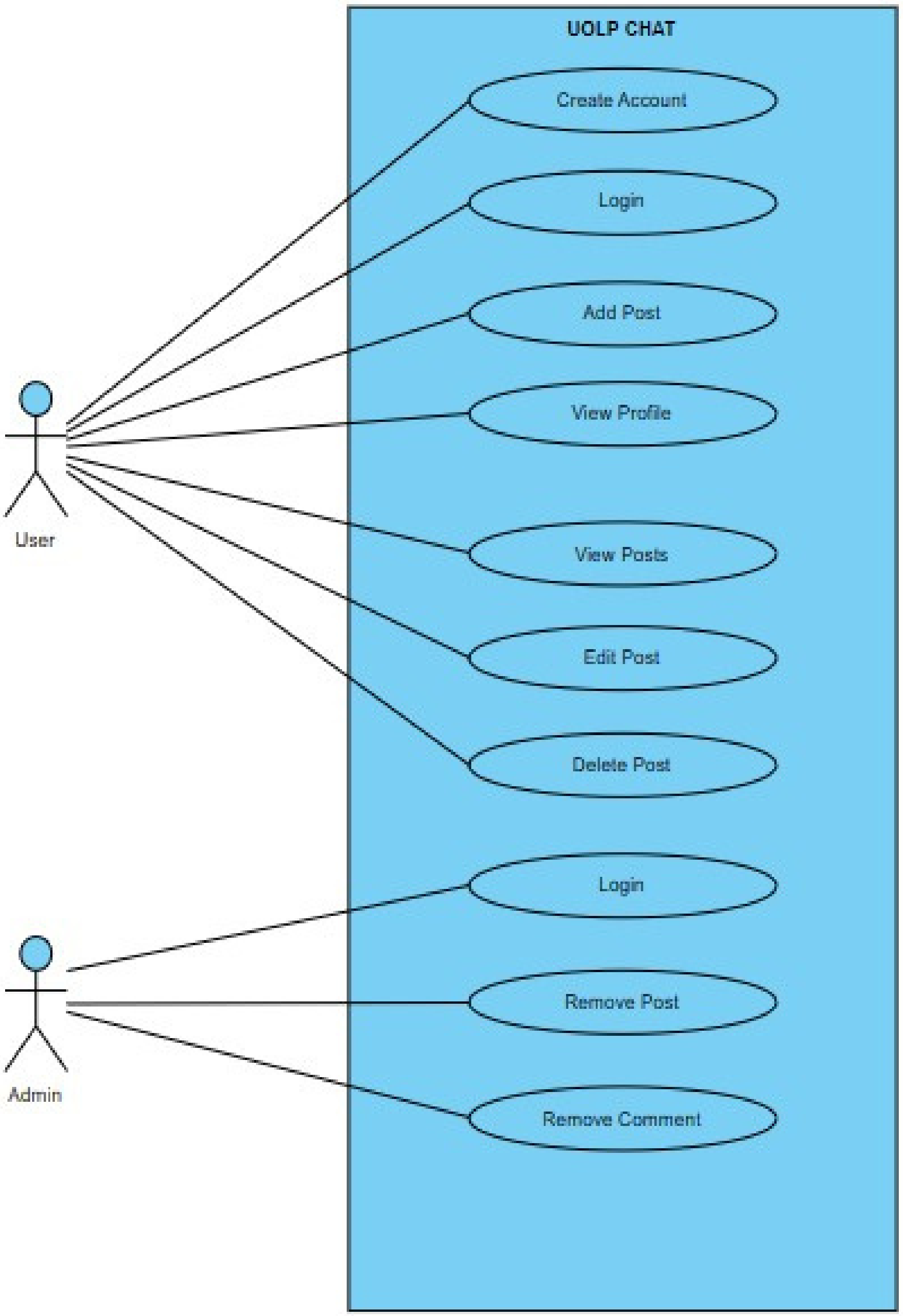
This document explains how the UOLP Chat website works. It's meant for people building and managing the site. UOLP Chat helps new students and those thinking about joining the UOLP program. We'll first explain the different people who will use the site and what they can do, then break down the features the site will have.

Product Scope

The UOLP Chat website serves as a communication platform specifically designed to enhance the UOLP program experience. It helps both new and experienced students, giving a sense of community and support. The platform provides interaction and idea exchange, ultimately reducing feelings of isolation and easing the transition for new students. UOLP Chat functions as a bridge between experienced and new students, promoting collaboration and a more engaging learning environment.

Overall Description

Product Perspective



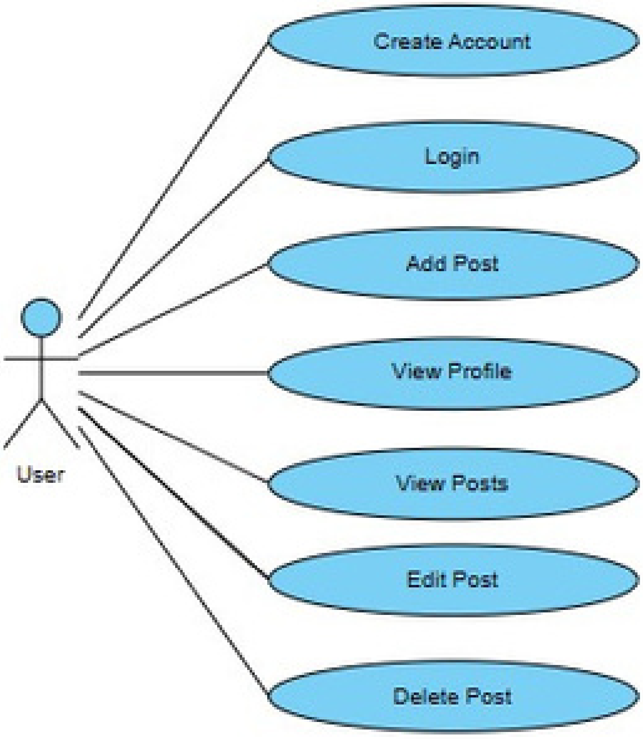
The UOLP Chat website has two actors.

Product Functions

This section outlines the user use-cases separately. The user has seven use-cases while the admin has three use-cases.

User Use-Cases

The User has the following sets of use cases:



Create Account Use Case

Brief Description

The user registers for a new account on the website.

Step-by-Step Description

1. The user clicks the Sign Up page.
2. The user enters their username, first name, last name, email, password and confirmation of password.
3. The system checks if there is no account with the same username.
4. The system validates the information and creates a new account for the user.

Login Use Case

Brief Description

The user enters their credentials to gain access to their existing account.

Step-by-Step Description

1. The user clicks the Login page.
2. The user enters their registered username and password.
3. The user clicks the login button.
4. The system validates the credentials against stored user data.
5. Upon successful login, the system grants access to the user's account profile.
6. On failed login, the system displays an error message with potential reasons (e.g., incorrect username/password).

Add Post Use Case

Brief Description

The user creates and publishes a new post.

Step-by-Step Description:

1. The user clicks the Home page.
2. The user clicks the text box on the top of the Home page.
3. The user enters a title for the post.
4. The user writes the content of the post in the text box area.
5. The user may optionally add image or a file.
6. The user may assign categories between public and private.
7. The user submits the post for publication.
8. The system saves the post and makes it live.

View Posts Use Case

Brief Description

The user browses and reads existing users' posts.

Step-by-Step Description

1. The user clicks the Profile page on the navigation bar.
2. The Profile page displays a list of the users' posts.
3. Each post typically shows a title, author name, date published and content of the post.
4. The user clicks on a post title to view the full content of the post.

View Profile Use Case

Brief Description

The user accesses their personal profile page.

Step-by-Step Description

1. The user clicks the users' Profile (located in the navigation bar).
2. It displays the user's profile page.
3. The profile page typically shows the user's contact information (optional), and a list of their published posts.

Delete Post Use Case

Brief Description

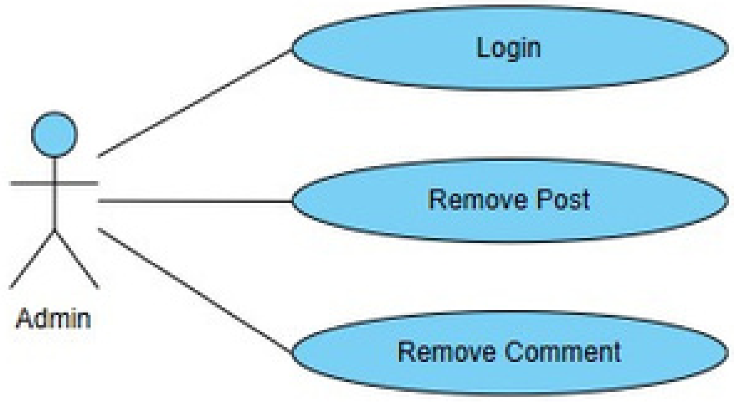
The user deletes one of their posts.

Step-by-Step Description

1. The user clicks the users' Profile (located in the navigation bar).
2. It displays the user's profile page.
3. The user clicks on the post they want to delete.
4. The user clicks on the *Delete* Button.

Admin Use-Cases

The Admin has the following sets of use cases



Login Use case

Brief Description

The user logs in to the system by entering their email address and password.

Step-by-Step Description

1. The admin navigates to the login page.
2. The admin enters their username and password in their respective fields.
3. The admin clicks the login button.
4. The system validates the admin's credentials.
5. If the credentials are valid, the system gives access to the admin's account.
6. If the credentials are invalid, the system displays an error message.

Remove Post Use case

Brief Description

The admin removes a post from the system.

Step-by-Step Description

1. The admin logs in to the system.
2. The admin navigates to a list of posts.
3. The admin selects the post to remove.
4. The system removes the post.

Remove Comment Use case

Brief Description

The admin removes a comment from the system.

Step-by-Step Description

1. The admin logs in to the system.
2. The admin navigates to a list of comments.
3. The admin selects the comment to remove.
4. The system removes the comment.

User Classes and Characteristics

The main users of this product are UOLP students or wanting to be UOLP students. It doesn't require extensive knowledge on computers due to it being a simple website.

Operating Environment

The UOLP Chat website works on most devices, ensuring accessibility. Users just need a recent browser and internet connection.

Design and Implementation Constraints

Time constraints will limit the number of features that will be included in this project.

User Documentation

A user guide will be included in the form of a pdf document.

External Interface Requirements

User Interfaces

The navigation bar contains pages Home, About Us, Sign Up, Log In. There will be additional buttons containing commands such as *Edit, Post* and *Delete*. A text area in the Home page will be used to for the user to write a post. The creators' names and information about them will be displayed in the About Us page. Text boxes will be shown in the Sign Up page for the user to input their username, first name, second name, email, password and confirmation of password for the creation of a new account. If the user already has an account, the Log In page has a text box for the user to input their username and password and a *Log In* button to log into their account. The Sign Up and Log In pages in the navigation bar changes to Log Out and (username)'s Profile respectively. The Log Out button on the navigation bar allows the user to log out of their account and the Profile button leads to the user's posts and comments.

Hardware Interfaces

Basic computer setup with a keyboard with or without a mouse. The application does require an internet connection.

Software Interfaces

The website can be used over any browser.

Communications Interfaces

All communications will be done on the website via comments.

System Features

Upload a File

Description and Priority

- The user is able to upload an image or pdf so that other students may be able to benefit from files such as past questions to prepare for an upcoming examination or test.

Stimulus/Response Sequences

1. The icon is clicked on using the mouse.
2. A window will be opened to select a file.
    1. **Functional Requirements**

- Input: Click of the mouse button.
- Output: A window for the file selection.

REQ-2:The user can abandon the operation at any time by clicking the *Cancel* button.

Post

Description and Priority

- The user clicks in the viewable text area to write a post as a question or announcement.

Stimulus/Response Sequences

1. The user clicks in the viewable text area.
2. The user types the post directly into the viewable text area.

Functional Requirements

- Input: Click of the mouse button.

Output: Text as the user types it.

Comment on a Post

Description and Priority

- The user clicks the viewable text area beside the comment button under the post.

Stimulus/Response Sequences

1.The User clicks the viewable text area beside comment button.

2.The user clicks the post comment button after writing the comment.

Functional Requirements

Input: The user clicks on the compile button.

Output: The system displays whether or not the website encountered any errors.

REQ-1:The user can abandon the operation any time before clicking the *Post* Button.

Edit a Post

Description and Priority

- It allows the user to edit their posts whether they want to make a change on any of their post.

Stimulus/Response Sequences

1. The user clicks on their profile to see all of their posts.
2. The user clicks on the *Edit* button on the post that they want to edit.

Functional Requirements

Input: The User clicks the *Edit* button on the post.

Output: The website turns the post to a viewable and editable text area to make any changes.

REQ-1:The user can abandon the operation at any time.

Edit a Comment

Description and Priority

It allows the user to edit any comment that they did on of users' posts.

4.5.2Stimulus/Response Sequences

1. The user clicks on the *Edit comment* button under the post.

2. The website displays viewable and editable text area to write whatever changes.
3. The user clicks on *Save* button.
4. The website saves the edited comment.

Functional Requirements

Input: The user clicks the Open button.

Output: The website turns the comment to a viewable and editable text area to make any changes.

REQ-1:The user can abandon the operation at any time.

Other Nonfunctional Requirements

Performance Requirements

The website requires minimal capacity and will work on any functioning computer.

Usability

The website should be user-friendly and simple so that users can easily adapt to the website and efficiently ask and answer questions amongst themselves.

The overall layout of the system should be well organized so that it can provide users with simple access to all the functions.

Security Requirements

Every user will create a profile with their password that even the administrators have no access to. The website uses built-in Django security functions besides from that there is no special protection built into this system other than to provide the user with the ability to create, edit, and delete posts or comments.

Software Quality Attributes

The website allows the user to edit what they have shared freely and easily

Business Rules

Users will be only able to create, edit and delete posts (or comments) from their own profiles and not other users' profiles. Only the administrators will have the access to all users' posts and comments.

Appendix A: Glossary

Term	Definition
Button	An icon representation of an action clicked to specify what action is wanted to be done.
Software Requirements Specification	A document that completely describes all of the functions of a proposed system and the constraints under which it must operate. For example, this document.
Text Area/Box	Viewable area that displays the text of a post or comment and allows a text to be edited.
User	Person using the UOLP Chat website.
Admin	The administrator is the one that has every access (but users' passwords which is encrypted)