Use Case: Create Account

## Brief Description

The goal of this use case is for a user to create an account within the VirtualScope system.

# Included Use Cases

N/A

# Flow of Events

## Basic Flow – Creating a username and password to access virtual scope website

1. The use case begins when the actor chooses to sign up for an account from the login page.
2. The system presents an empty form to be filled (see appendix A).
3. The actor fills in the required information fields and then hits the signup button (see appendix A).
4. The system verifies the class password and username.
5. The system creates an account for the actor.
6. The use case ends.

## Alternative Flows

None

## Exception Flows

E1: An invalid class password

1. This flow begins when the system determines that the class password doesn’t match any classes in the database.
2. The system presents a message telling the actor the password is incorrect.
3. The system does not create the account.
4. The system presents the actor with a blank account creation form.
5. The use case begins from the start.

E2: A duplicate username

1. This flow begins when the system determines that the username is already associated with an account in the database.
2. The system presents a message telling the actor the username is duplicate.
3. The system does not create the account.
4. The system presents the actor with a blank account creation form.
5. The use case begins from the start.

E3: Missing information

1. This flow begins when the system determines that any field name (Appendix A) in the creation form is missing.
2. The system presents a message telling the actor there is missing information on the creation form.
3. The system presents the actor with a blank account creation form.
4. The use case begins from the start.

# Requirements

### Presentation Requirements

1. The password shall not be visible upon account creation.

### Scalability Requirements

1. The system shall support multiple account creation.

# Post-conditions

1. *The system database has the created account.*
2. The system sends the user to the login/domain page.

# Notes & Open Issues

None

# Out of Scope (Future Functionality)

None

# Appendix A – Data Definition Required Fields for Sign Up Form

| **Field Name** | **Description** | **Type** | **Valid Values** | **Req’d** | **Default** | **Business Rules** |
| --- | --- | --- | --- | --- | --- | --- |
| Username | User name | Text | N/A | Y | N/A | Unique user name, under 60 characters |
| First Name | First name | Text | N/A | Y | N/A | Under 60 characters |
| Last Name | Last name | Text | N/A | Y | N/A | Under 60 characters |
| Password | Password | Text | N/A | Y | N/A | Hidden password format |
| Password Repeat | Repeated password to ensure desire password entered by user is correct | Text | N/A | Y | N/A | Hidden password format. Entry must match first password entry attempt by user |
| Star Id | Star Id | Text | N/A | Y | N/A | 8 characters in length, no longer, no shorter |
| Class Password | Given class password | Text | N/A | Y | N/A | Must match the class password encoded within the system. |

# Appendix B - Sequence Diagram

A screenshot of a cell phone

Description automatically generated