Use Case 1: User Registration and Profile Management

Use Case Name: User Registration and Profile Management

Primary Actor: Student

Secondary Actor: System (Online Registration System)

Preconditions:

- The Online Registration System is operational and accessible.

- The student has internet access.

- The student has not yet registered an account with the system.

Postconditions:

- The student's account is successfully created in the system.

- The student can log in using their credentials.

- The student's profile information is stored securely.

Main Flow:

1. The student navigates to the Online Registration System's registration page.

2. The student provides their personal information, including name, contact details, and academic history.

3. The student chooses a username and password for their account and confirms the password.

4. The system validates the entered information, ensuring that the username is unique and the password meets security requirements.

5. If the validation is successful, the system creates the student's account and assigns a unique registration number.

6. The system confirms successful registration and prompts the student to log in.

Stakeholders:

- Student: The primary user who wants to register and manage their profile.

- System: The online registration system responsible for processing and storing user registration data.

Exception Conditions:

1.Duplicate Username:

  - If the chosen username is already in use, the system will prompt the student to choose a different one.

  - Extension: The student selects a new username and continues with registration.

2.Weak Password:

  - If the password doesn't meet security requirements (e.g., too short), the system prompts the student to create a stronger password.

  - Extension: The student provides a more secure password.

Use Case 2: Online Test Taking

Use Case Name: Online Test Taking

Primary Actor: Student

Secondary Actor: System (Online Testing System)

Preconditions:

- The student is registered and logged into the Online Registration System.

- The student has selected start test option

- The student should enter the correct hall ticket details.

- The online testing system is operational.

Postconditions:

- The student's test responses are recorded.

- The system calculates the test score instantly and displays it to the student.

Main Flow:

1. The student logs into the Online Registration System.

2. The student selects the start test option and inputs hall ticket details to take an online test.

3. The system provides the student with the test questions and a time limit.

4. The student answers the test questions and submits their responses.

5. The system calculates the test score based on the student's answers.

6. The system displays the test score to the student immediately.

Stakeholders:

- Student: The primary user taking the online test.

- System: The online testing system responsible for presenting questions and calculating scores.

Exception Conditions:

1.Technical Issue:

   - If there is a technical issue (e.g., server downtime) during the test, the system may not function as expected.

- Extension: The student should attempt the test again once the system is operational.

Use Case 3: System Administration

Use Case Name: System Administration

Primary Actor: System Administrator

Secondary Actor: None

Preconditions:

- The System Administrator has the necessary administrative credentials and access rights.

- The Student Registration System is operational and accessible.

Postconditions:

- Administrative tasks related to the Student Registration System are successfully performed.

- System configurations and security settings are updated and maintained.

Main Flow:

1. The System Administrator logs into the administrative portal of the Student Registration System using their unique administrative credentials.

2. The system presents the administrator with a dashboard displaying various administrative options and settings.

3. The System Administrator can perform the following administrative tasks:

   - Manage User Accounts: The administrator can create, update, or delete user accounts.

   - System Configuration: The administrator can configure system settings, such as registration periods, test schedules, and notification preferences.

   - Generate Reports: The administrator can generate various reports related to student registration, test results, hall tickets and system usage.

4. The System Administrator performs the desired administrative task(s), making necessary updates and changes to the system.

5. After completing the administrative tasks, the administrator logs out of the administrative portal, ensuring the security of the system.

Stakeholders:

- System Administrator: Responsible for managing and maintaining the Student Registration System.

- System: The Student Registration System, which requires ongoing administration and configuration.

Exception Conditions:

1. Unauthorized Access:

   - If someone without administrative privileges attempts to access the administrative portal, they will be denied access.

2. Configuration Errors:

   - If the administrator makes configuration errors (e.g., setting incorrect registration dates), it may affect system operations.

   - Extension: The administrator should review and correct any configuration mistakes promptly.