

Boundary Object

Login form:

1. Navigate to the login page of the system.
2. Enter the username in the designated field.
3. Enter the password in the selected field (often obscured).
4. Click on the "Log In" button to submit the form.
5. If the username and password combination is correct, the user will be directed to their account dashboard or another designated page within the system.

Course enrollment form:

1. Navigate to the course enrollment page of the educational institution's website.
2. Select the desired course from a list or search bar.
3. Enter any required information, such as personal information, payment information, or course prerequisites.
4. Complete the form by clicking the "Enroll" or "Submit" button.
5. If the enrollment is successful, the student will receive confirmation and further instructions on accessing the course materials.

Course details page:

1. Navigate to the course details page of the educational institution's website.
2. Review the course description, prerequisites, and learning objectives.
3. Check the course schedule, including start and end dates and any required live sessions.
4. Review the instructor's biography and qualifications.
5. If desired, click the "Enroll" or "Register" buttons to enroll in the course.

Student profile page:

1. Navigate to the student profile page of the educational institution's website.
2. Review personal information such as name, email address, and contact information.
3. Review enrolled courses, grades, and course completion status.
4. Update personal information or settings, such as passwords or email preferences.

Instructor(Admin) profile page:

1. Navigate to the instructor profile page of the educational institution's website.
2. Review the instructor's biography and qualifications.
3. View any courses that the instructor is teaching or has taught in the past.
4. Contact the instructor via provided contact information or messaging system, if available.

Grade submission form:

1. Navigate to the grade submission page of the educational institution's website.
2. Select the course and student for which grades are being submitted.
3. Enter the grades for each assignment, exam, or other assessment.
4. Submit the grades via the designated button or form.
5. Verify that the grades have been successfully submitted and uploaded.

Entity Object

1. **Course information:** Information related to a course, such as its title, description, prerequisites, and schedule.
2. **Student information:** Personal and academic details of a student, such as name, address, email, enrollment status, and academic history.
3. **Instructor information:** Personal and professional details of an instructor, such as name, contact information, teaching experience, and academic qualifications.
4. **Enrollment information:** Information related to a student's enrollment in a course, including the course name, enrollment date, and enrollment status.
5. **Grade information:** Information related to a student's performance in a course, including their scores, assignments, exams, and overall grades.

Control Object

- 1. Authentication controller:** This control object manages user authentication and authorization within a system. It verifies user credentials and grants or denies access to protected resources based on their roles and permissions.
- 2. Course enrollment controller:** This control object manages enrolling users in courses. It may include functions such as verifying course prerequisites, managing class sizes, and updating student records upon enrollment.
- 3. Grade calculation controller:** This control object calculates and manages student grades within a system. It may include weighting different assignments, calculating final grades, and generating reports for instructors and students.