Use Case: Course Management

Actors:

* Admin: The administrator of the e-learning platform.
* User: A user of the e-learning platform.

Use Case: Manage Courses

Description: This use case allows the admin to perform various operations related to course management, including adding, viewing, updating, and deleting course details.

Preconditions:

* The admin is authenticated and has the necessary permissions.
* The e-learning platform is operational.

Postconditions:

* Course details are updated accordingly.

Main Flow:

1. The admin accesses the e-learning platform's admin panel.
2. The admin selects the "Manage Courses" option from the admin menu.
3. The system displays a list of existing courses.
4. The admin has the following options:
   * Add Course:
     + The admin selects the "Add Course" option.
     + The system prompts the admin to enter the course details, including the title, description, instructor, duration, etc.
     + The admin provides the required information and confirms the addition of the new course.
     + The system validates the inputs and adds the course to the platform.
     + The system returns to the course management page and displays the updated course list.
   * View Course:
     + The admin selects a course from the list to view its details.
     + The system displays the course details, including the title, description, instructor, duration, etc.
     + The admin can review the information and select an appropriate action.
   * Update Course:
     + The admin selects a course from the list to update its details.
     + The system displays the course details in an editable form.
     + The admin modifies the necessary information and confirms the update.
     + The system validates the inputs and updates the course details.
     + The system returns to the course management page and displays the updated course list.
   * Delete Course:
     + The admin selects a course from the list to delete.
     + The system prompts the admin for confirmation.
     + The admin confirms the deletion.
     + The system removes the course from the platform.
     + The system returns to the course management page and displays the updated course list.

Alternative Flows:

* Invalid Inputs:
  + If the admin provides invalid inputs while adding or updating a course, the system displays appropriate error messages and allows the admin to correct the inputs.
  + The system prevents the addition or update of a course until valid inputs are provided.

Use Case: User Course Interaction

Description: This use case allows users to view courses, search for specific courses, rate courses, and register for courses.

Preconditions:

* The user is registered and logged into the e-learning platform.
* Courses are available on the platform.

Postconditions:

* The user can view course details, search for courses, rate courses, and register for selected courses.

Main Flow:

1. The user logs into the e-learning platform.
2. The user is presented with the platform's home page or course catalog.
3. View Courses:
   * The user can browse through the available courses displayed on the platform.
   * The user can select a course to view its details.
   * The platform displays the course details, including the title, description, instructor, duration, etc.
4. Search Course:
   * The user can enter specific search criteria (e.g., keywords, instructor name) in the search bar provided by the platform.
   * The platform retrieves and displays a list of courses matching the search criteria.
5. Rate Course:
   * The user selects a course they have enrolled in or completed.
   * The platform provides an option to rate the course.
   * The user provides a rating for the course (e.g., on a scale of 1 to 5).
   * The platform records the user's rating