

Comprehensive Description of the Graduation Project

The graduation project is a fully integrated **web-based system** designed to manage activity approval requests for both students and staff at the University of Jordan. The system is developed using **Spring Boot** for the backend and **MySQL** as the database. It aims to automate the paper-based process for requesting activities and provide a user-friendly online platform for submitting, tracking, and reviewing requests by all relevant parties.

Users (students or staff) log in to the system and fill out an electronic form to request activity approval. The form includes essential details such as the type of activity (initiative, lecture, training course, workshop, exhibition, competition), description, location, date, time, organizing body, and required services.

If the activity is **college-level** and the requester is a **student**, they must choose a supervising professor from their own college.

If the activity is **university-level**, or if the requester is a **staff member**, no supervising professor is required.

The system includes a **conflict check mechanism** to ensure that the selected venue is available at the requested date and time. If a conflict exists, the user will be prompted to modify their request before submitting.

Once submitted, the request enters a **multi-level approval workflow** depending on the type of activity. The requester can track the full approval path, see which parties have approved or rejected, and view any comments or suggestions from reviewers. All reviewers can access the complete request details and optionally add feedback.

Activity Types

1. University-Level Activity

- Can be held in any location on campus
- Can be requested by any student or staff member
- Does **not** require a supervising professor

2. College-Level Activity

- Must be held within the requester's college
- Students can submit requests only within their own college
- Staff can submit requests in any college
- Students must select a supervising professor from the same college

Request Form Fields

- Activity type (initiative, lecture, training, workshop, exhibition, competition)
- Activity description and objectives
- Organizing body
- Activity location (chosen from a predefined list)
- Date and time (from – to)
- Target audience and participants
- Required services
- Supervising professor (required only for students requesting a college-level activity)

Availability Validation

The system checks:

- If the venue is already booked at the requested time
- If there is any scheduling conflict

If the venue is unavailable, the user must choose another time or place.

Approval Workflow

College-Level Activities

If a supervising professor is included (student request):

1. Supervising Professor
2. College Dean or Vice Dean (either can approve)
3. Student Union (view only)
4. Student Union Division Head
5. Director of Student Entities Department
6. Vice Dean of Student Affairs
7. Dean of Student Affairs

If no supervising professor is included (staff or student request):

1. College Dean or Vice Dean
2. Follow the same steps as above

University-Level Activities

1. Student Union (view only)
2. Student Union Division Head
3. Director of Student Entities Department
4. Vice Dean of Student Affairs
5. Dean of Student Affairs

User Roles and Permissions

- Student
- Staff Member
- Supervising Professor
- College Dean
- College Vice Dean
- Student Union (view only)
- Student Union Division Head
- Director of Student Entities Department
- Vice Dean of Student Affairs
- Dean of Student Affairs

Each role can only interact with requests relevant to their scope and has specific permissions to approve, reject, or comment.

Additional Features

- Requesters can track the status of their request in real time
- All parties can view the full request history, including approvals and rejections
- Rejection comments are visible to the requester for transparency
- Reviewers can add comments or suggestions for improvement
- Student Union has view-only access and cannot approve or reject requests

Objectives

- Streamline and digitize the activity request process
- Minimize paper-based transactions
- Provide transparent request tracking
- Improve coordination between students and administrative units
- Maintain a centralized database of all activities and approvals