Rita Samir
ID : 25

**Sohayla Mohammed**
ID : 31

Merit Vector
ID : 69

Youmna Dwidar
ID : 73

CSED GP Library: Milestone I

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OVERVIEW

We proposed a web application represented as a library of resources for all previous graduation projects and for the upcoming graduation projects, students can upload their codes and their documentation. We also propose the web application as an open environment for communication and sharing experience between all computer science and engineering students.

Database Design

Schema
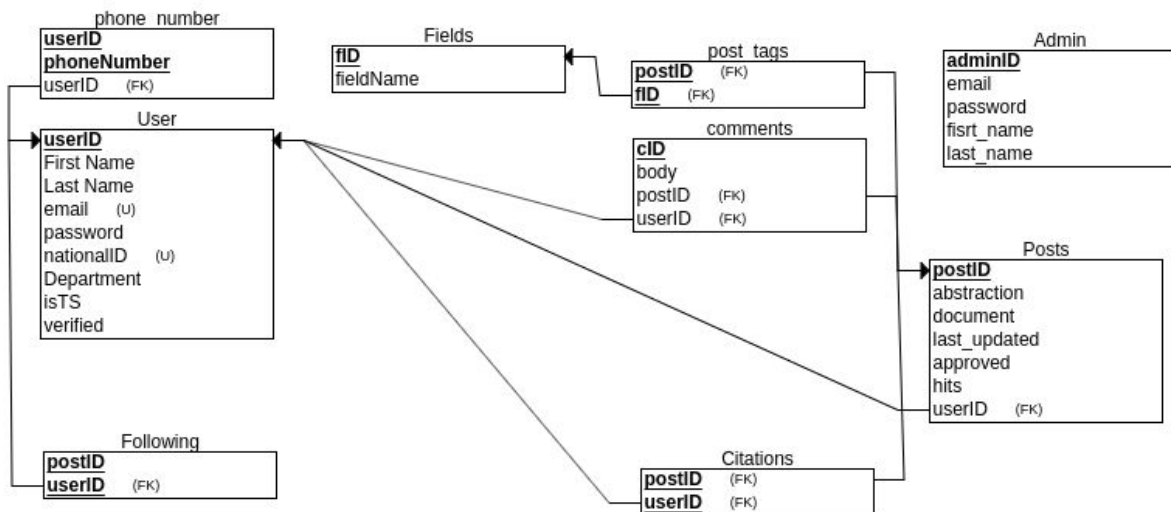
System Architecture

Main Components

Frames

- Main page
    - signed in
    - Visitor
- User Profile page
    - Another page for editing info.
- Write post
- Post profile
    - Another page for editing posts.
    - Another page for adding comments.
    - Report comments.
- Pending posts for teaching staff members
- Approving users list

Users

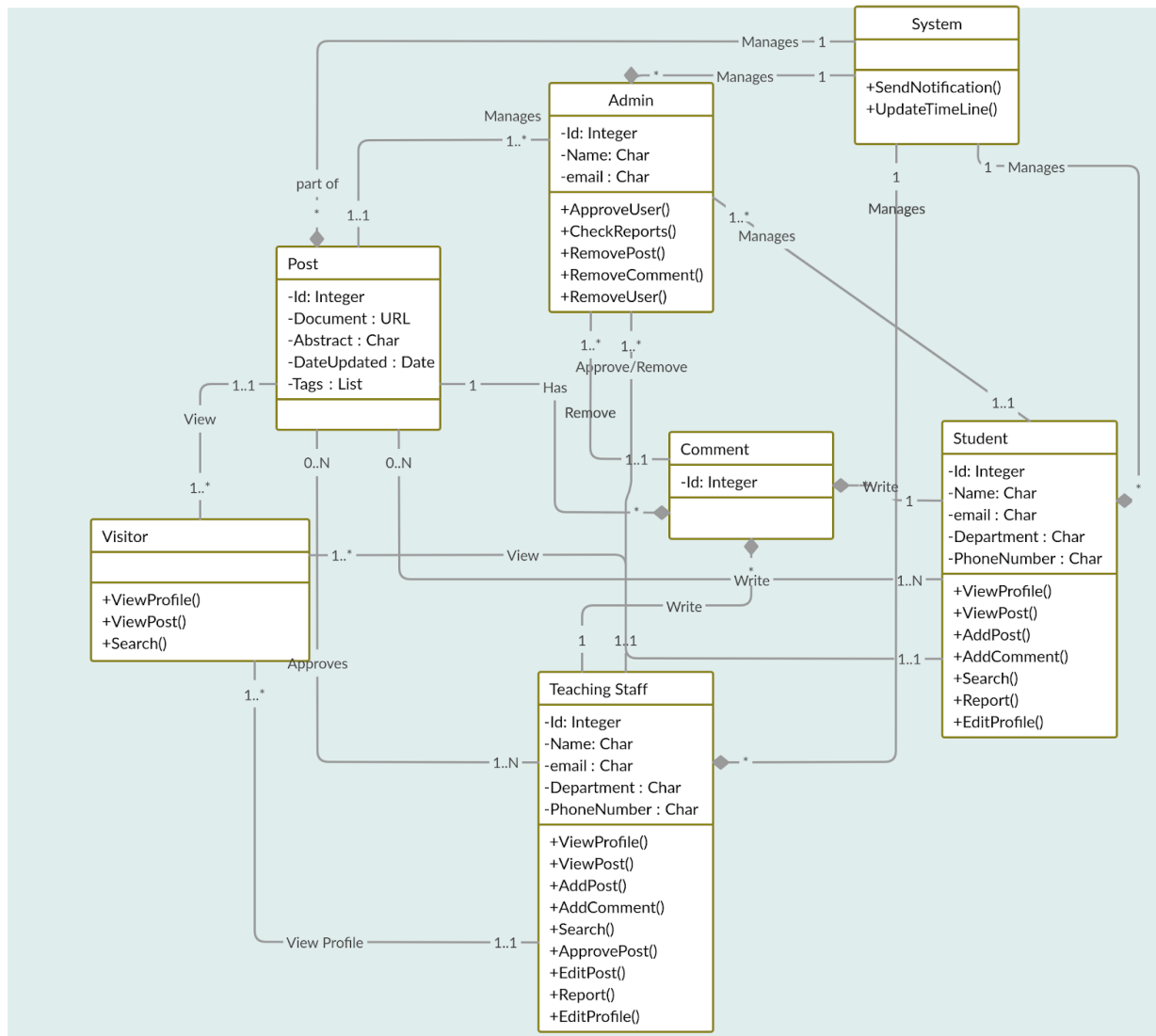The main users that can be involved in this application :

- The Admin
    - The admin of the application can monitor the infrastructure of the application, monitor the performance, provide technical support and evaluate the structure.
- The teaching staff
    - These kinds of users will be the ones who give approval to any project for uploading, they also have the ability to post, comment and cite any project.
- Student
    - This user is a CSED student. He can upload projects with approval and add comments.
- Anonymous user
    - This user is anyone without an account to the application. He only can view the projects and the comments included in the application.

Posts Information

When posting the user is required to fill in the following info :

- Description/Abstraction.
- Field(s).
- User Citations
  - User (student)
  - Teaching staff (TS)
- Paper/document..

UML Class Diagram

CRC cards

Abstract	**User**	
		Student, Teaching Staff
• Create Post • Add comment • Search • Report • Edit Post • Approve post		• Admin

	Student	User
• Create Post • Add comment • Search • Report		• Teaching Staff • Admin

	Teaching Staff	User
• Create Post • Add comment • Search • Report • Approve posts • Edit post		• Student • Admin

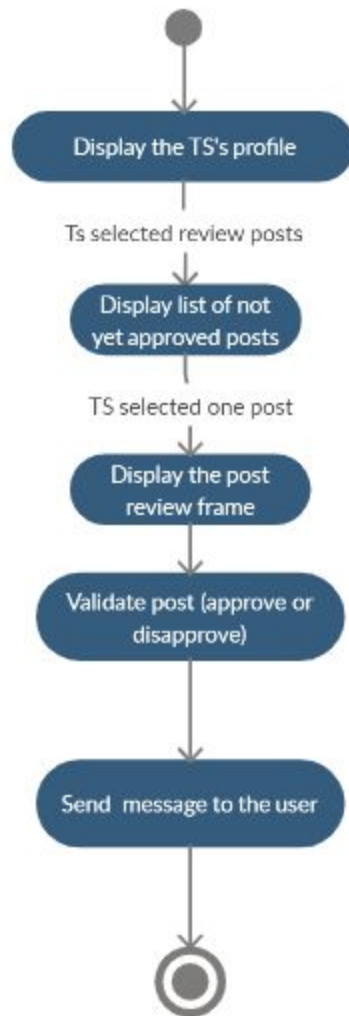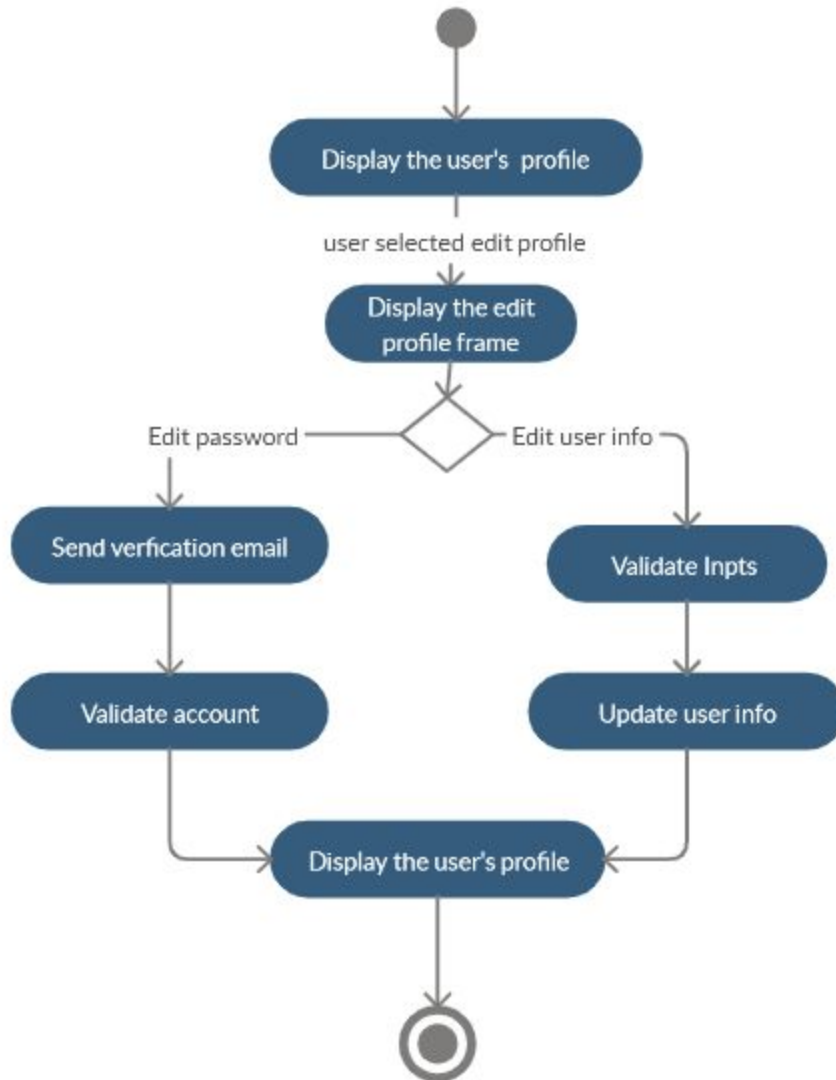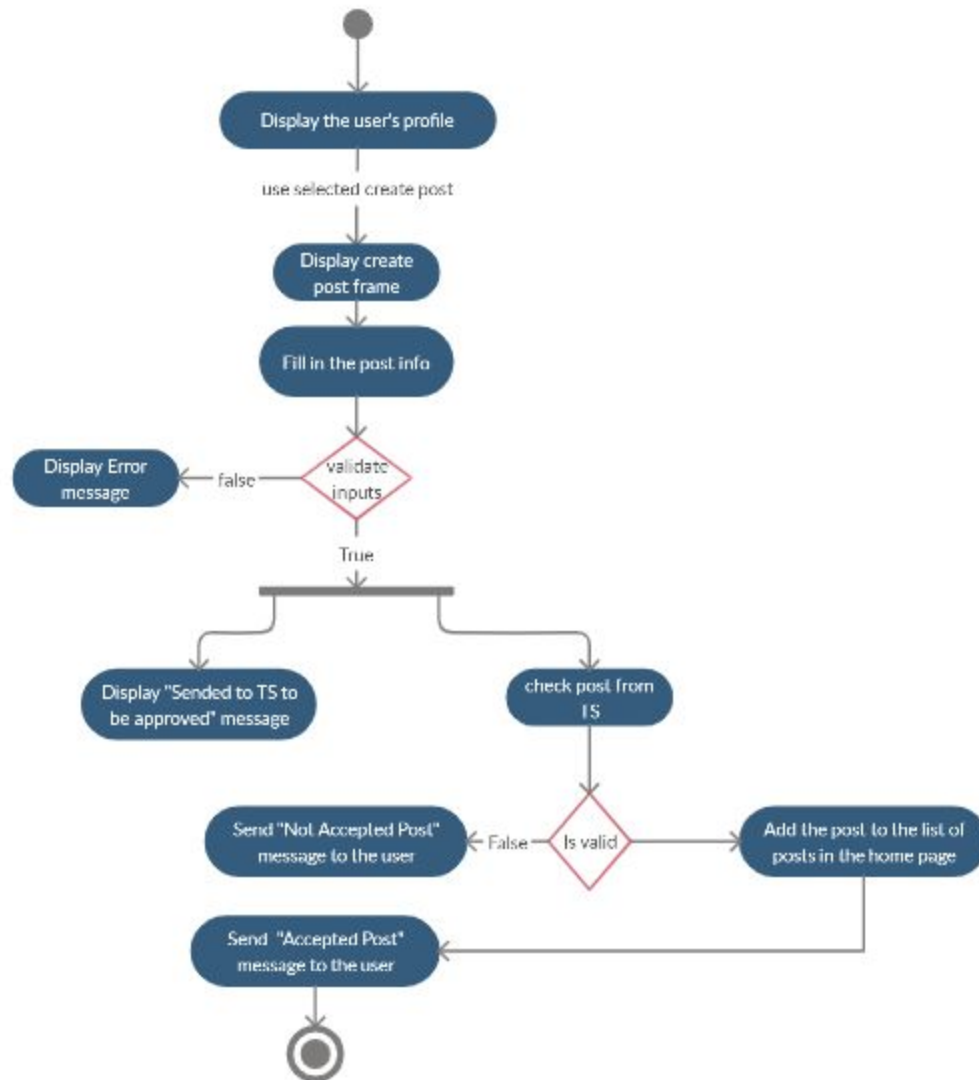| **Admin**	
• Approve Users • Check reports	

Activity Diagrams

1. Sign in/ log in
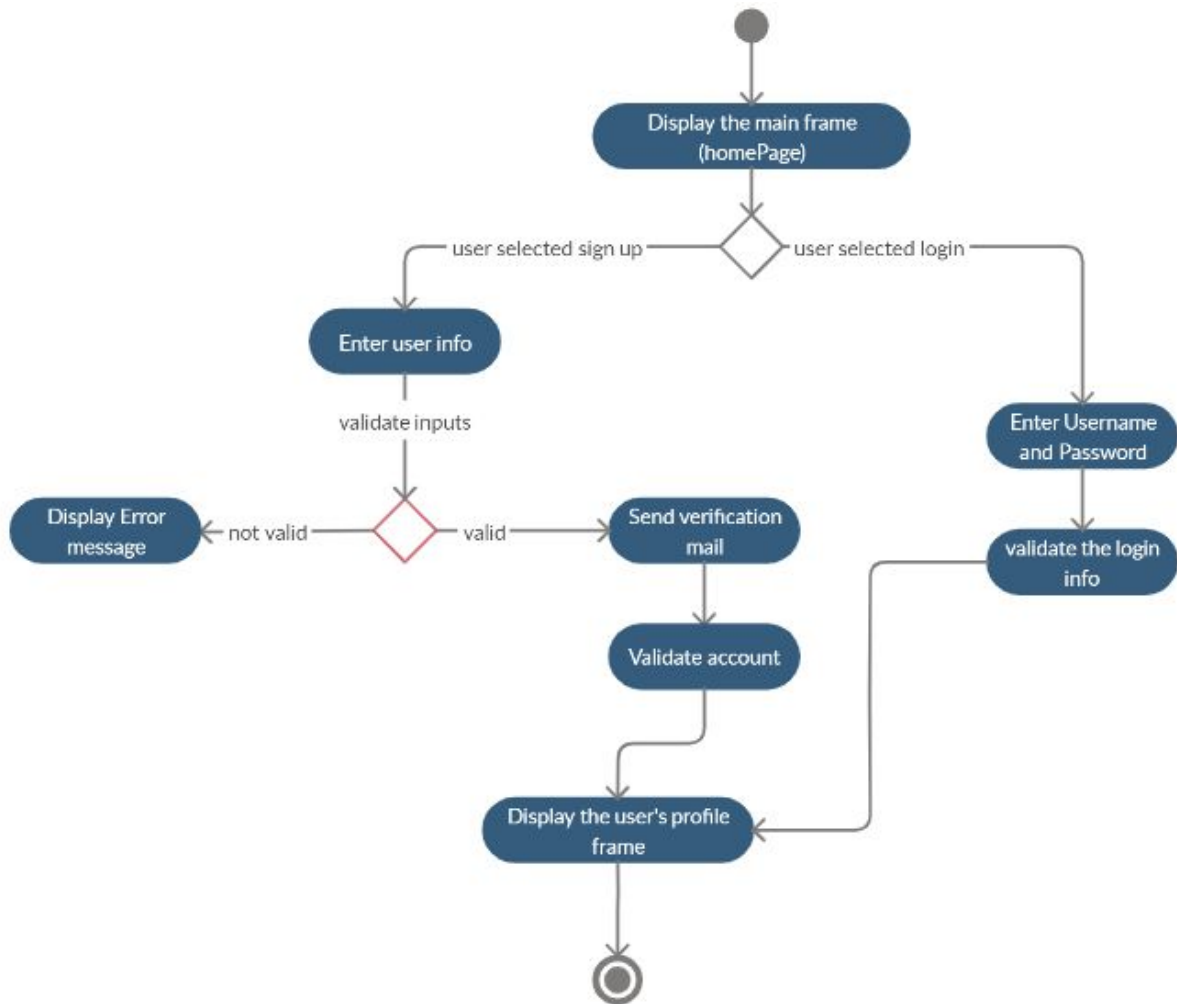
2. Teaching Staff (TS) approving a project post
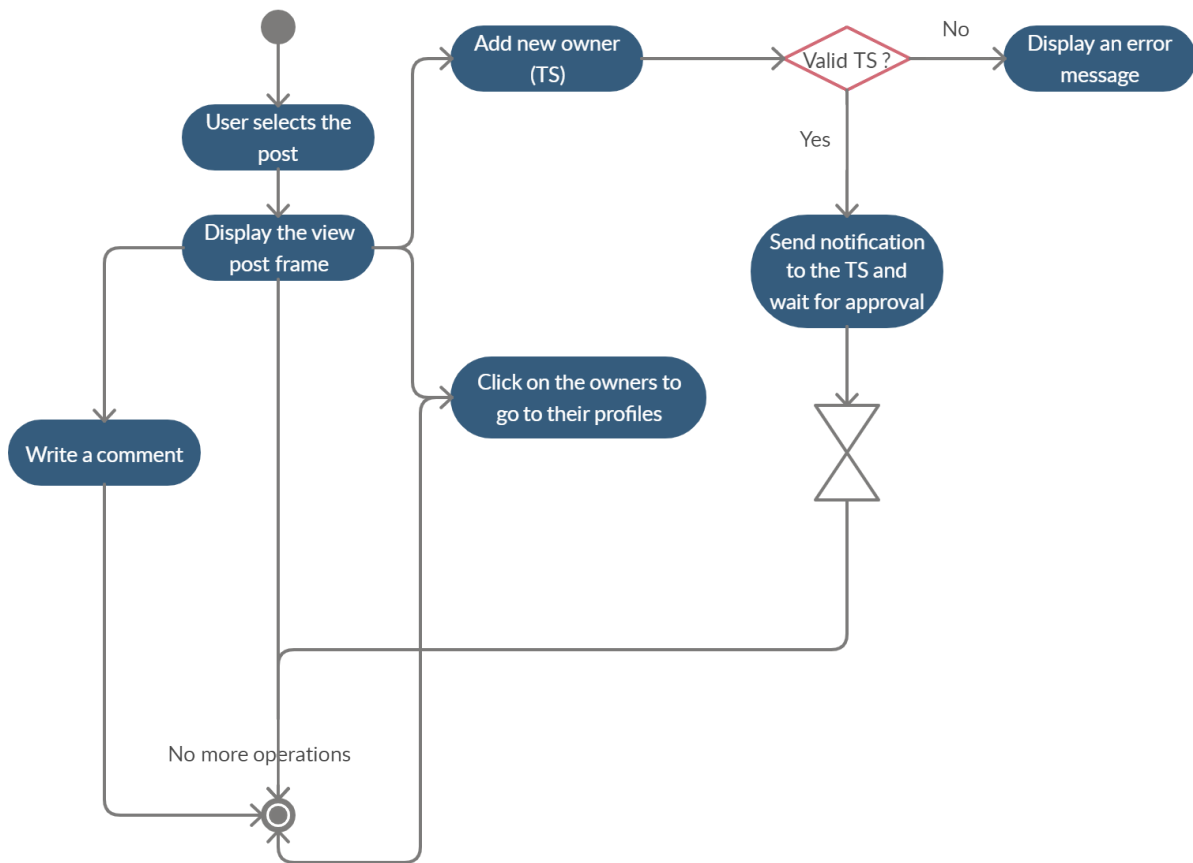
3. User edits his/her profile information

4. Creation of a new project post

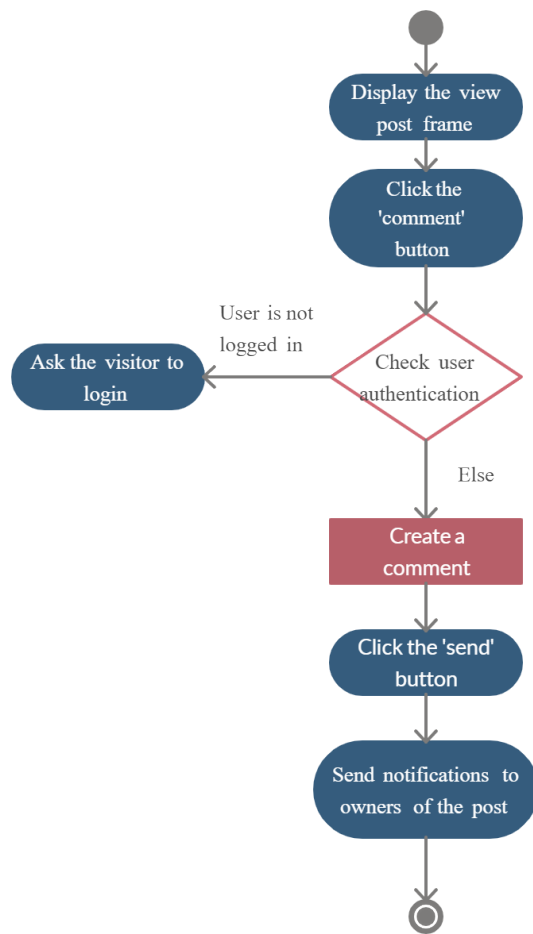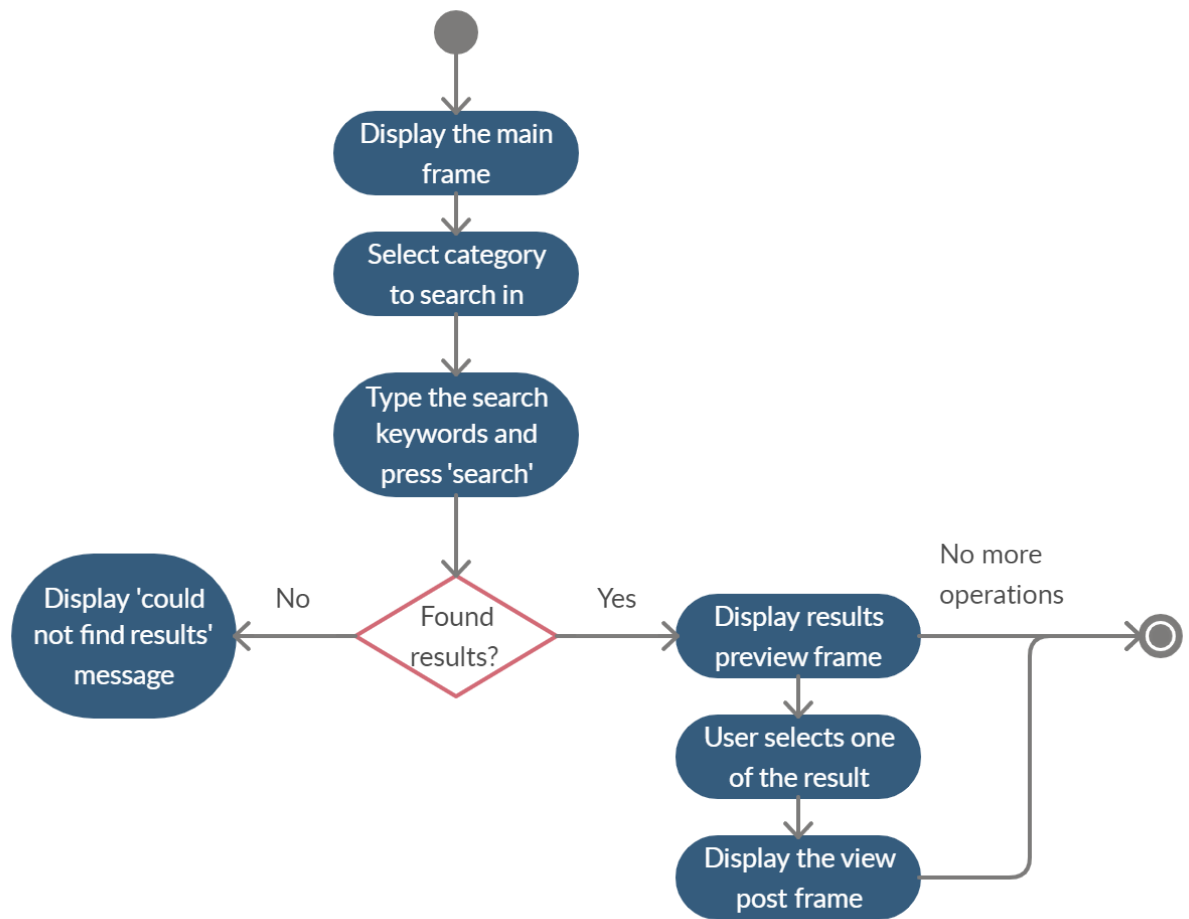5. View post information and add new owner (TS)

6. Add a comment to a post

7. Search for a post

```
                              ●
                              │
                              ▼
                    ┌──────────────────┐
                    │ Display the main │
                    │      frame       │
                    └──────────────────┘
                              │
                              ▼
                    ┌──────────────────┐
                    │  Select category │
                    │   to search in   │
                    └──────────────────┘
                              │
                              ▼
                    ┌──────────────────┐
                    │  Type the search │
                    │   keywords and   │
                    │  press 'search'  │
                    └──────────────────┘
                              │
                              ▼
┌─────────────────┐   No    ◇◇◇◇◇◇   Yes   ┌──────────────────┐  No more      ◎
│ Display 'could  │◀────── ◇ Found ◇ ──────▶│ Display results  │  operations
│ not find results'│       ◇results?◇       │  preview frame   │───────────────▶
│    message      │        ◇◇◇◇◇◇           └──────────────────┘
└─────────────────┘                                  │
                                                     ▼
                                           ┌──────────────────┐
                                           │ User selects one │
                                           │   of the result  │
                                           └──────────────────┘
                                                     │
                                                     ▼
                                           ┌──────────────────┐
                                           │ Display the view │
                                           │    post frame    │
                                           └──────────────────┘
```

8. Edit post information

System

Sign in
extension points
sign in as a teaching staff

unregistered User

<<extend>>

Approve teaching
staff registration

Admin

Search projects

registered User
and teaching staff

write comment

report comment

review reported
comment

edit profile

System

registered User

post a project

Teaching Staff

<<include>>

approve a project

citation for projects