

IT314 -Software Engineering(G9)

Project Title & Description:

Online Faculty Staff Directory for Multi University

Online faculty staff directory empowers users to easily view college faculty details. Students can easily view different college faculty details anywhere required at any time as this application is handy. This system is built with an effective graphical user interface which enables user friendliness. Users can search faculty details and view their respective details such as name department, courses, area of expertise, and professional interest. This system reduced the time and cost of the user. Here there are two entities who will access this system i.e. admin and student. Admin is authorized to add and manage all the faculty details. Users don't require any registration or login to access this system. Users can directly search for faculty and view their details. Data in the database is maintained securely without any maintenance cost.

Minutes of Meeting: [Click here](#)

G9-IT314-Slack: [Click here](#)

Group Members:

- 202101158 – Ruchika Amin
- 202101135 – Lav Chaudhari
- 202101107 – Anshul Darediya
- 202101153 – Smit Patel
- 202101160 – Krupesh Parmar // Group Leader
- 202101152 – Kaushalkumar Prajapati
- 202101100 – Parth Khunt
- 202101115 – Meet Mayavanshi → Never attended lab & meetings
- 202101108 – Prabhakar Hembrom
- 202101140 – Jahnvee Patel

Work Distribution:

- **UI/UX Design & Case Study Team:**

// UI/UX Case Study PPT Link: [Click here](#)

202101158 - Ruchika Amin

202101140 - Jahnvee Patel

- **Frontend Team:**

202101100 - Parth Khunt

202101107 - Anshul Dareliya

202101108 - Prabhakar Hembrom

202101152 - kaushal Prajapati

- **Backend Team:**

202101135 - Lav Chaudhary

202101152 - Kaushal Prajapati

202101153 - Smit Patel

202101160 - Krupesh Parmar

- **Database Team:**

202101160 - Krupesh Parmar

- **Documentation Team:**

202101158- Ruchika Amin

202101140-Jahnvee Patel

Important Details & Diagrams of Project

Functional Requirements and Non Functional Requirements:

1. FR

- Search faculty details for different universities/colleges.
- Apply filters in search results.
- Sign-in facility for faculty and admin.
- Sign-up facility for admin.
- Admin should be able to add, remove and manage faculties of his/her respective university/college only.
- Faculty can edit his profile and course details.
- General users should be able to search for the faculty details without registration/sign-in.

2. NFR

- Availability of required faculty details.
- Interactive and easy-to-use interface.
- Website should be responsive and supportable for different devices.
- Real-time data updation.
- System should be available 24x7 except for the maintenance time.
- Data should be maintained securely.

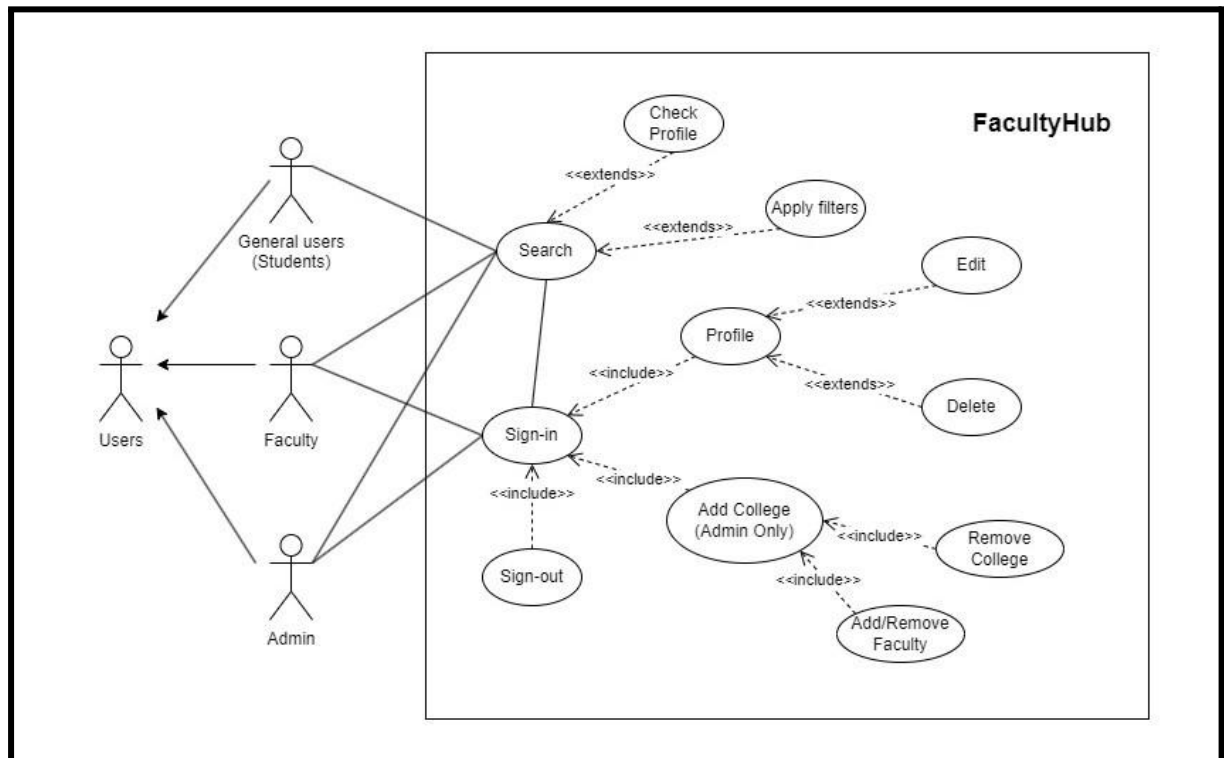
User stories

Actors	Sr.	Front of the card	Back of the card	
		User Stories	Success	Failure
Student/ Users	1	As a user/student, I want to access faculty details without needing to register or log in.	Users can directly search for and view faculty profiles without registration.	Technical issues prevent users from accessing the details without registration.
	2	As a student I want to search a faculty by his/her name	Student gets all the details of the faculty which has the same name as (s)he searched.	No output because of the wrong spelling. No data for the given name
	3	As a student I want to search faculties from multiple colleges.	Search feature allows users to search faculty from multiple colleges.	Technical limitations restrict the search results to only one college.
	4	As a user I want the true data for my search results.	Students get newly updated details of the faculties.	Poor maintenance of the database leads to old or maybe wrong data projection.
	5	As a user, I want to filter faculties from their area of interest or research.	Users can refine his/her search results by applying projected filtration options.	The filtering mechanism malfunctions, leading to inaccurate or irrelevant search results.
Faculty	1	As a faculty member, I want the ability to update my office location and office hours so that students can find and reach me easily.	The directory's interface includes options for faculty to adjust office details.	Changes to office location and hours are not saved properly, leading to misinformation for students.

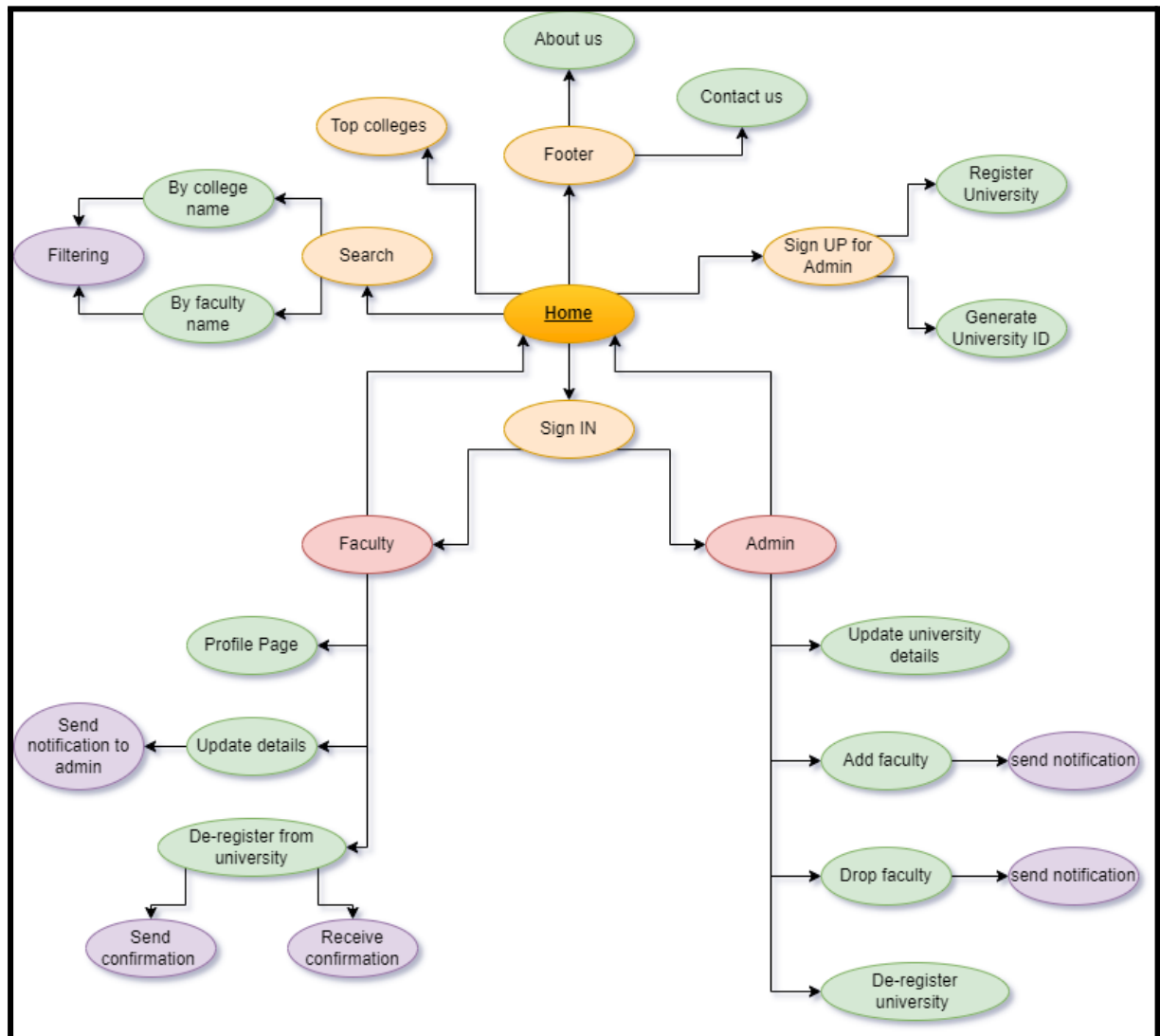
	2	As a faculty member, I want to update my areas of expertise in the directory to reflect my changing research interests.	The directory's profile editing section allows faculty to modify their areas of expertise.	Changes to expertise areas are not reflected accurately, resulting in outdated information.
	3	As a faculty member, I want to be able to update my bio to keep it current and aligned with my professional achievements.	The directory enables faculty to edit and update their biography.	The bio editing function malfunctions, preventing faculty from showcasing their recent accomplishments.
	4	As a faculty member, I want to receive an email notification when the admin registers me in the directory, confirming my successful registration.	The system sends an automated email to faculty members upon successful registration.	Email notifications are not sent, leaving faculty members unaware of their registration status.
Admin	1	As an admin, I want to receive system notifications and alerts of data updation or data addition, to stay informed about directory activities.	Admin receives timely notifications about relevant events within the directory.	Notifications are not sent, or there are delays in receiving them.
	2	As an admin, I want to be able to add new universities to the system, so that faculty and staff from multiple colleges can be managed within the directory.	I can successfully create a new university entry with its details.	Technical issue or database compatibility issues restricting the new college entry.

	3	As an admin, I want to add, drop, update any faculty from his/her college.	Admin gets the facility to add, drop, update faculty details as he wants.	Changes doesn't reflect accurately into the database.
	4	As an admin, I want to send an email notification when I register a new faculty in the directory, confirming his/her successful registration.	The system sends an automated email to faculty members upon successful registration.	Email notifications are not sent, leaving faculty members unaware of their registration status.

Use case diagram

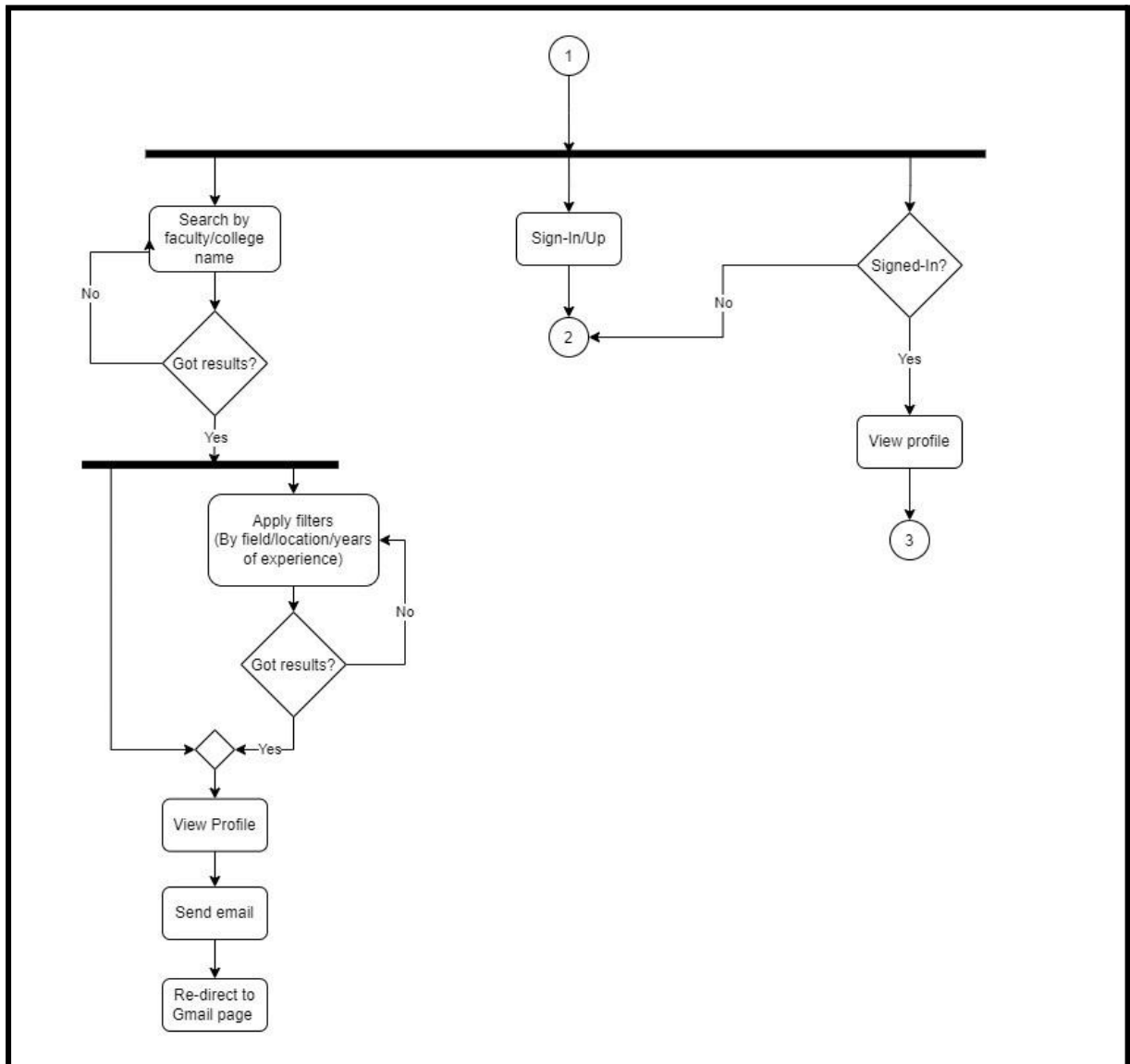


Concept mapping

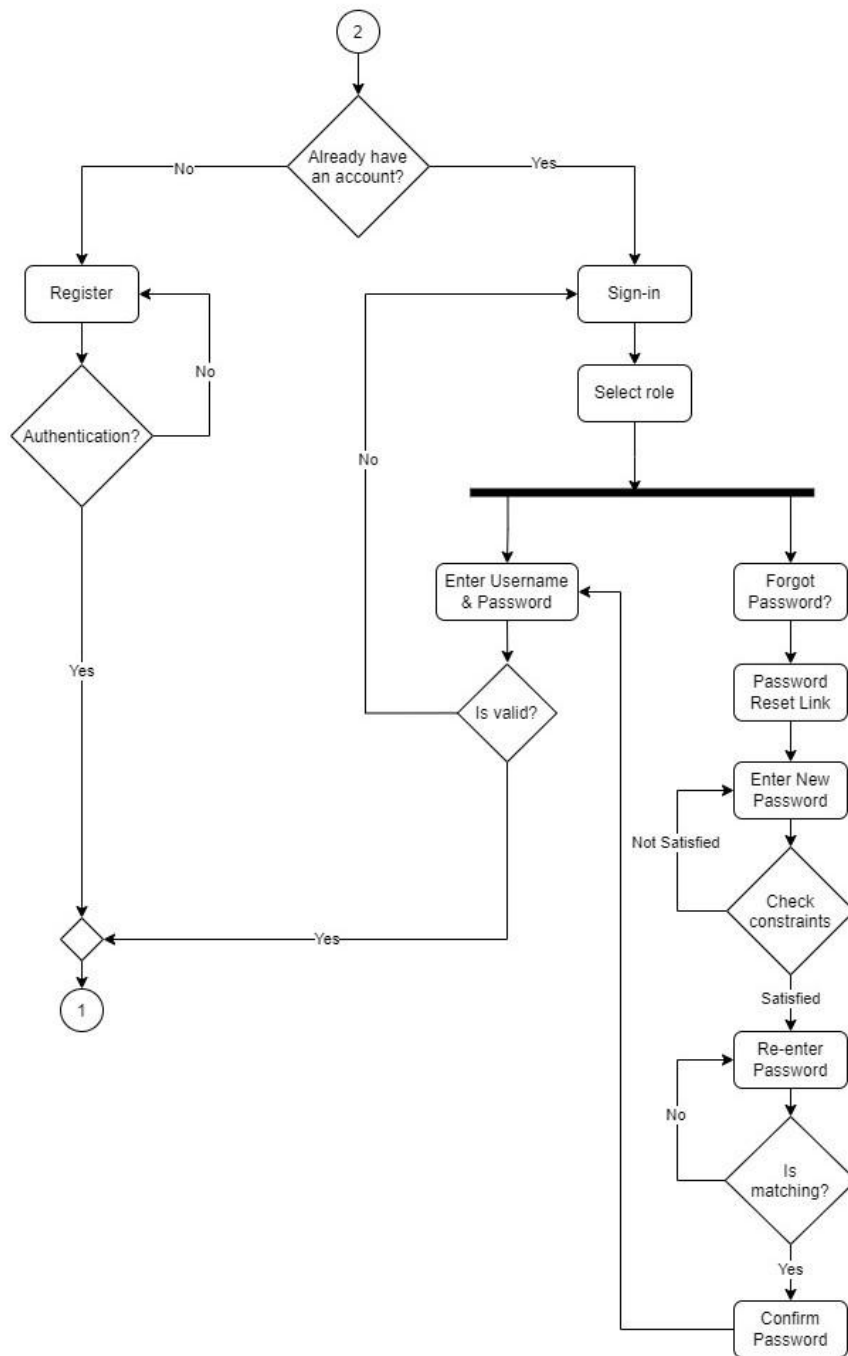


Activity Diagram

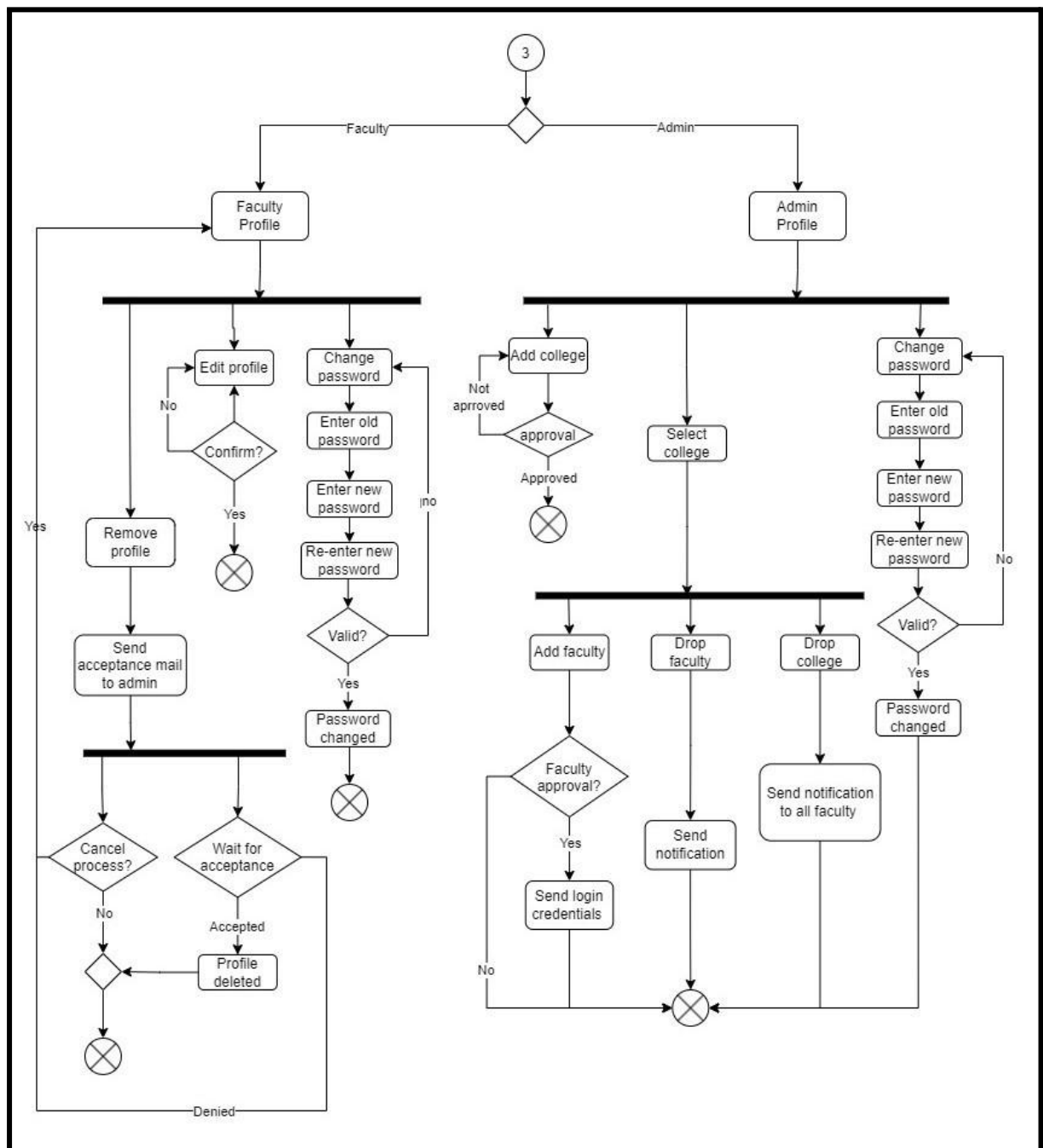
Sprint 1: User Interface



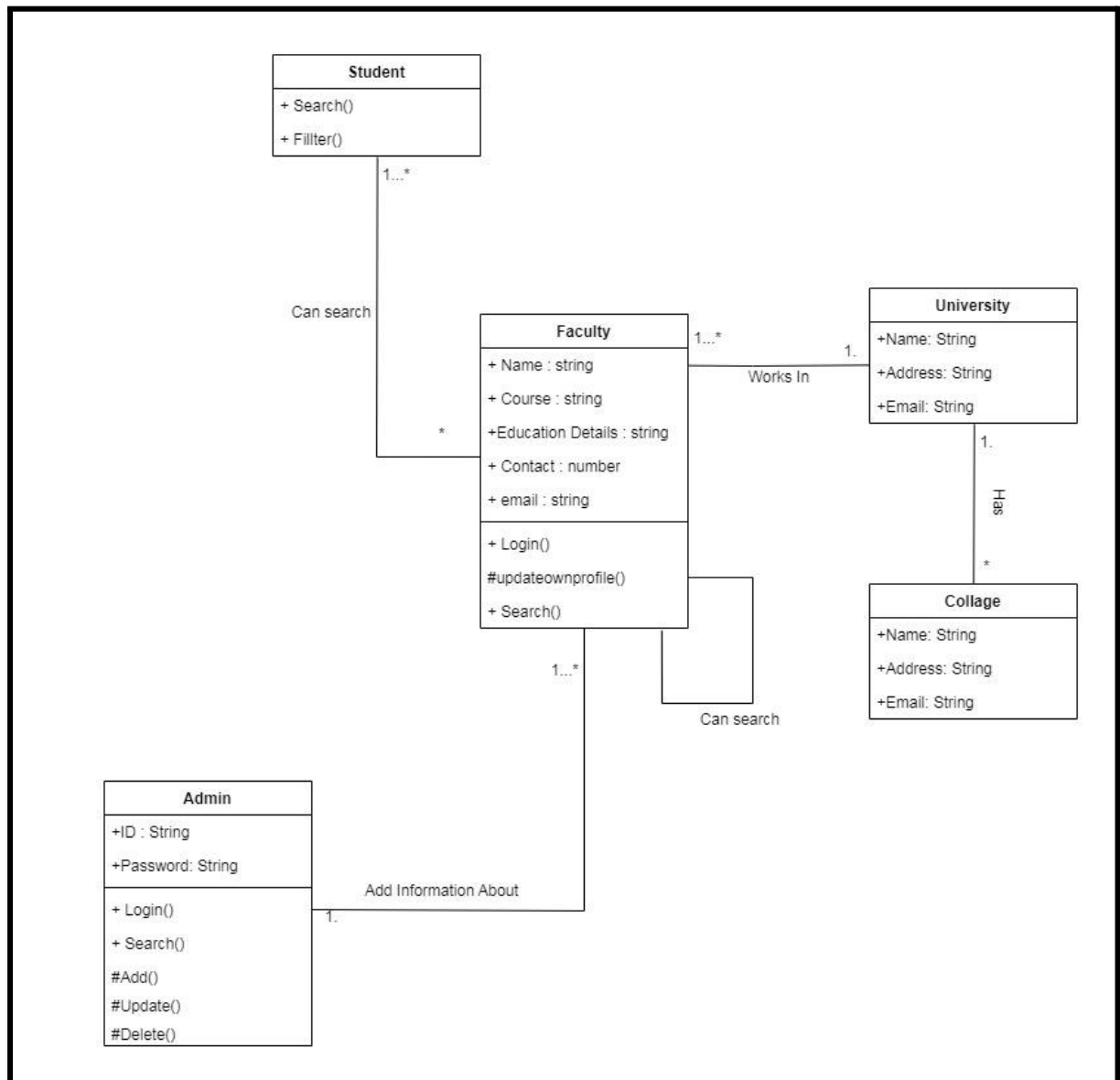
Sprint 2: Login Interface



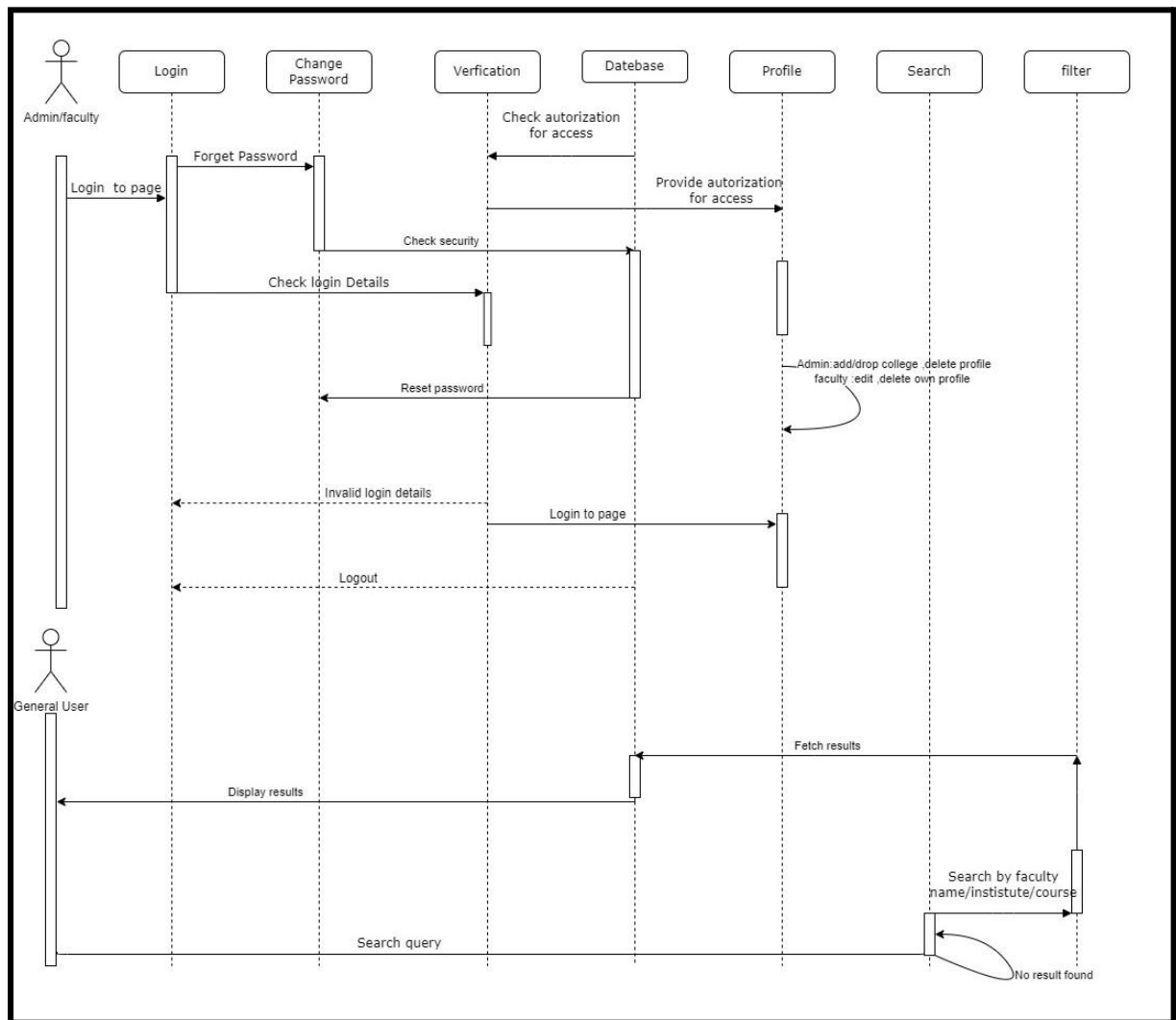
Sprint 3: Faculty and Admin Interface



Class diagram



Sequence diagram



→ List of Problems that we have faced till now:

- Faculty Visit
- Student Review
- Manually data + Spreadsheet stuff