IT-314
Software Engineering

Lab 5: Project Understanding, Elicitation, Features

Project - Online Faculty Staff Directory for Multi University

~ **By Group 17**

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1. Identify all the stakeholders and users of the systems

⇒ Stakeholders : Basically there are 3 stakeholders.

1. Admin

2. Faculty

3. General users (Students)

4. Project Developers

5. Project Sponsors

6. Project Manager

⇒ Actors: There are three kind of people that interact with the system:

1. Admin

2. Faculty

3. General users (Students)

2. List the various features exercised by each user of the system and describe all of them in detail (the user requirements and system requirements both)

Admin : The admin can login with his User ID and password.
Add or remove faculty: Admin can register or remove the faculty
Edit faculty details: The admin can add or modify faculty details.

Faculty: Faculty can login into the system using their given ID and password.
Edit details: The faculty can edit their own data.
Search other faculties details: They can also search details of other faculties.

Change password: The faculty can change their password for their account.

Students (General users): Students can search and/or filter the details of faculties without any type of login. They can contact the faculty using the mail id mentioned in their profile if they are interested to work under them.

System Requirements:
Tools and Technologies: HTML5, CSS3, JS, React, Django, SQLlite (database).
OS: The system supports the well known operating systems such as MAC, Windows, Ubuntu etc.
Browsers: The system supports most of the modern browsers Google Chrome, Mozilla Firefox, Microsoft Edge etc.
The user must have a stable internet connection.

3. Specify all the non-functional requirements for this system
- Availability of Faculty Details
- Interactive User Interface and easy to use
- Website should be lightweight and scalable on different devices.
- System should be available 24x7 except for maintenance time
- Website should run on low network bandwidth.
- Data in the database is maintained securely without any maintenance cost.
- Real-time data updation

4. Specify user interfaces for each user of the system
We are using Graphical User Interface in our System.
Admin : Admin needs to login from the homepage, upon logging in they Will have multiple options such as Insert Profile, Edit Faculty Profile and Search faculty/staff. In " Insert profile" admin can enter basic details of the faculty. In "Edit Faculty Profile" admin can edit any details of any faculty in the database. In "Search faculty" they can look up other faculties and their details.

Faculty : Faculty needs to login from the homepage, upon logging in, they will be provided with 2 options, Edit their profile or Search other faculty/staff. In "Edit Profile", they can see and edit details about their education, their professional interest, their research papers etc. In "Search faculty" they can look up other faculties and their details.

General users : General users cannot login and they can only use "Search faculty" from the homepage where they can search any faculty in the database.
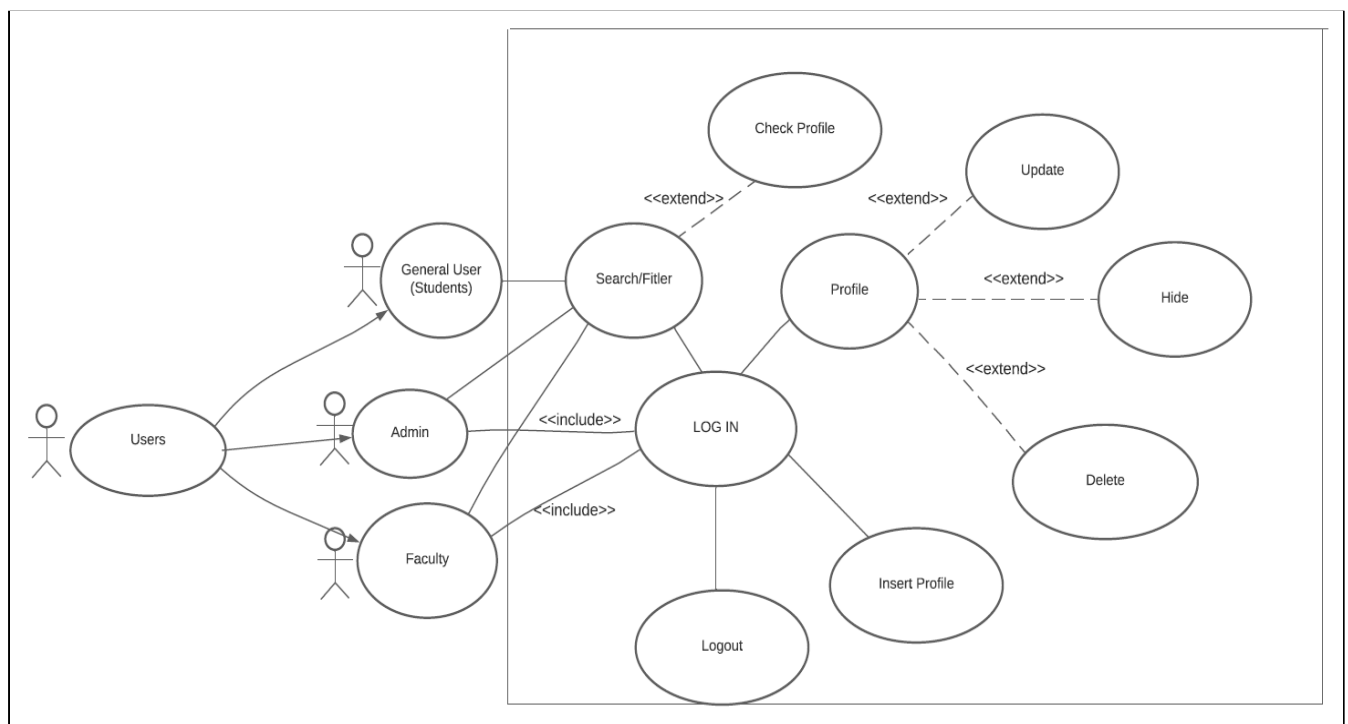
5. 'Open Issues'- issues those are identified but not taken care of
⇒ Upto what extent can admin edit faculties details while editing or while adding their profile.
⇒ Faculty can hide their profile.
⇒ Faculty can add temporary posts/stories asking for interns for their research and projects such that interested students can approach them.

6. Develop use-case diagrams for your project.

7. Write 2-3 paragraphs describing the requirements/needs/objectives of your project.

Objectives-

Online faculty staff directory empower 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 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 time and cost of users.

Requirements-

Users can Search Faculty Data and apply Filter in Searches. The system is built with a login facility for admin and faculty. The system admin can add, remove and manage the faculty details. Faculty can edit their profile and their course details. General users can search and filter faculty details without registration.

Use Case Textual Description:

Use Case Name	Search/Filter
Description	Search/Filter functionality is the basic functionality of the website and the students, faculty members can use this functionality without any type of login.
Precondition	Whenever a user visits the website they can benefit from this functionality without login.
Postcondition	After using the search/filter option the user can see the faculty details such as their name, department, courses, areas of expertise and professional interests. The students can also get their contact details in case he is interested in working under that professor.

Basic Flow	The students and faculties can visit our faculty directory to access the details of various professors from different universities. The user enters a search keyword[A1][A2]. The system determines the entries using the search keyword and then it shows all the entries to the user. From the entries, he can find the suitable entry and find the faculty's contact details.
Alternate Flow	[A1]: If the user inserts the correct details then he will receive the faculty info. [A2]: In case of the incorrect information he will get a message that no information was found, try using a better keyword.

Use Case Name	Login
Description	Admin/Faculty enters the user id and password upon validation user will be logged in and can initiate actions such as hide,modify,delete profile or insert profile.
Precondition	The Access device must be connected to the internet and the user must be logged out.
Postcondition	User is logged in and authorized to perform actions based on his/her privileges.
Basic Flow	User enter user id and password.System validates user id and password by help of database.[A1][A2] Logged in user will be authorized to modify or hide profile.
Alternate Flow	[A1]If provided user id and/or password are wrong user will be asked to re-enter the user id and password [A2]If the logged in user is Admin. Admin will have higher privileges such as insert profile or delete profile.

Use Case Name	Check Profile
Description	Users can search the profile of any professor and users can check any professor's details and fetch his details like email address,institute, location,etc.
Precondition	Access devices must be connected to the internet and users must know about the professor like his/her name,institute or city.
Postcondition	Users get details of the professor if the professor's detail is available or the professor does not hide his/her detail.
Basic Flow	Users open the website and then go to the search & filter option then users can select profile and after that check the profile of the professor[A1].
Alternate Flow	A1)If users want to mail any professor and if he clicks on the professor's mail address then the website redirects to users' default mail application.

Use Case Name	Profile
Description	The user must be logged as an admin to avail this feature. The system admin has the access to create, modify, hide, update or delete any faculty's profile.
Precondition	The user must be logged as admin.
Postcondition	Admin can modify, hide, update or delete any faculty's profile.
Basic Flow	Once the user logged[A1][A2] in, the user can

	visit their own profile and after that user can also take action[A3] regarding update, hide, delete.
Alternate Flow	[A1]: The login details will be checked and verified and then the access will be provided. [A2]: Incase of incorrect details he will be displayed a message showing incorrect details provided. [A3]: website redirects according to user actions(update,hide,delete).

Use Case Name	Insert Profile
Description	Insert profile is a feature which is provided to admin. Admin can verify and register any faculty. Normal users do not have to register.
Precondition	Faculty must have to register for inserting their profile.
Postcondition	Faculty can check their profile after the admin inserted it.
Basic Flow	Faculty register themselves to admin and admin insert their profile in the database. Faculty can check and edit after this.[A1]
Alternate Flow	[A1]If faculty data is not verified by admin then their profile will not be created.

Use Case Name	Logout
Description	Admin and faculty can logout from the web-application using this feature. User session will be deleted after the user is logged out.
Precondition	User needs to be logged in.

Postcondition	User is logged out and the homepage is returned.
Basic Flow	Once the user selects logout, the system displays a prompt asking if the user indeed wishes to logout. And if the user confirms the logout, the system will return the homepage to the user and the session will be deleted.
Alternate Flow	NULL

Use Case Name	Update
Description	Faculty can login and update their details of their profile.
Precondition	Faculty's profile has been made and he/she has logged in.
Postcondition	Concerned profile will reflect the changes made by valid users. Faculty can check their profile after updating
Basic Flow	Once the user selects an update, they can edit, insert or delete content on their profile such as Professional Interests, course contents, etc.[A1] Upon confirmation from the user, the system will modify the database.
Alternate Flow	[A1] if any constraints such as valid email format, valid contact number format is violated than user will be prompted to re-check the updated fields and enter it in valid format

Use Case Name	Hide
Description	The website provides the concerned faculty the

	feature to hide their details
Precondition	Users must be logged in as faculty or admin.
Postcondition	Profile of concerned faculty will be hidden and can not be searched or viewed by any User except admin or concerned faculty.
Basic Flow	Once the user selects update , they can hide certain details or the whole profile from rest of the users and they won't be able to look up this profile
Alternate Flow	NULL

Use Case Name	**Delete**
Description	Admin can delete any profile and faculty can delete their own profile from the database.
Precondition	Admin and faculty have to login before deleting profiles.
Postcondition	Admin will notify faculty before deleting the profile.
Basic Flow	Login into the system and then admin can delete any profile and faculty can delete their own profile.
Alternate Flow	NULL