

# **IT-314**

## **Software Engineering**

### **Final Software Requirements Specification**

**Project - Online Faculty Staff Directory for Multi University**



**~ By Group 17**

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# Software Requirements Specification

## **Purpose:**

The Faculty Staff Directory for multi university helps the students to find their intended faculty and to help them choose a perfect university. The faculties can find the like minded people who can work with them.

## **Intended People:**

The intended people for our website can be students who want to study or learn from a particular professor, or a faculty who wants to find like minded professors who can work with them on their projects. The students can also find internships under professors and can get the contact details of the professors.

## **Functional Requirements:**

- **Login facility**  
Faculty and admin can login with their email id and password. If they are first time login then they need to signup first. After login faculty can edit their own profile and also can search about other faculties.
- **Admin access**  
Admin is a main person who can edit, delete or remove any faculty details. Admin panel we are visible only if the user will login with Admin email Id and password.
- **Search Page**  
Students, faculty and admin search profile using this functionality. And any user can access or use even without login. We can also use any filter at a time to search through location, colleges and courses. At the start of the page, there are popular colleges which are shown based on advertisements or demand from colleges.
- Faculty can edit their profile and their course details.
- General users can search and filter faculty details without registration.

## **Non-Functional Requirements:**

- 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 update

## **Use Case:**

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	<p>[A1]: If the user inserts the correct details then he will receive the faculty info.</p> <p>[A2]: In case of the incorrect information he will get a message that no information was found, try using a better keyword.</p>
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<b>Use Case Name</b>	<b>Login</b>
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	<p>[A1]If provided user id and/or password are wrong user will be asked to re-enter the user id and password</p> <p>[A2]If the logged in user is Admin. Admin will have higher privileges such as insert profile or delete profile.</p>

<b>Use Case Name</b>	<b>Check Profile</b>
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).

<b>Use Case Name</b>	<b>Insert Profile</b>
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.

<b>Use Case Name</b>	<b>Logout</b>
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

<b>Use Case Name</b>	<b>Update</b>
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

<b>Use Case Name</b>	<b>Delete</b>
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

**Part of the requirements not completed/implemented in the project:**

- Hide Functionality
- Accurate Testing not done for any component.
- No confirmation for professors signup.
- REST API in Django.
- Search functionality not done using Machine learning (i.e. If a user enters DAIICT then it will not show results having Dhirubhai Ambani..)
- If the Search result does not exist in the database then the webpage will go on loading and will not show results.