

Project Number: P23

Project Title: Web Platform for Connecting Professionals with Projects

Project Clients: Dr Basem Suleiman, School of Computer Science and Engineering

Project Specializations: Software development/Engineering, Web Application Development

Background

The goal of this project is to design and develop a Web platform that connects companies offering projects with potentially interested individuals who are willing to carry on project work.

Requirements and Scope

Companies may create and choose to share projects with the public. Interested individuals (professionals) can search and request to join projects. The web application is responsive and accessible on mobile devices. The following are the core requirements that should be designed and implemented by the end of this project.

Users

- Administrator users have the full privilege in the system and should be able to manage and oversee the platform.
- Users with different roles and responsibilities can create their account, login and operate the system based on their roles and responsibilities.
- Users can edit/maintain their profiles.

Company user

- A company can create/register their account and login.
- A company can edit their account by updating basic account information.
- A company can create a new project by providing project information.
- A company can view their project lists and its details (and filter it) and can edit any project information.
- A company can approve/reject individuals requested to join the project.
- A company can view/edit the list of professionals who are approved to join a project.
- A company can view list of all available projects (project lists) and can choose to see the details of any project with filters.
- A company can rate and recognize the participants who contributed to their projects at the end of the project.

Professional user

- A professional (individual looking to join projects) can create/register their account and login.
- A professional can edit and update their account/project.
- A professional can search and browse list of available projects and refine the results with search filters.
- A professional can select to view the full details of any project from the search results.
- A professional can request to join/apply for a project of interest (this includes sharing relevant information from their profile)
- A professional receives a notification of their request to join a project.
- A professional can see the project page if they are approved by a company.
- A professional can rate their experience with the project when the project is completed.
- Upon successful completion, a professional can obtain certificate of recognition from the company offering the project.
- Professional can browse list of achievements (completed projects and reviews).

Required Knowledge and skills:

- Familiarity with web application development (front-end and back-end)
 - Technology stack can be flexible – e.g., MEAN stack.
- Familiarity with web development and testing frameworks and practices
- Familiarity with database design and management for storing data (e.g., NoSQL)
- Familiarity with UI/UX principles and implementation
- Familiarity with Agile software development methods, practices, and tools
- Familiarity with software testing, building and deployment.

Expected outcomes/deliverables:

- Project documentation including source code, system architecture and design, UI/UX, different types of testing, user manuals and guide, technical guide.
- Responsive Web application which is accessible on various devices, e.g., tablets and smartphones.