Web Programming – Fall 2022

Project Description

Open Date: Nov 22, 2022   **Total Marks-300**

Deadline: Dec 06, 2022 11.00pm   **Group Size: Max 3**

Project Overview

Create a web application for connecting retired professionals using full stack Technology with a dynamic front end, with a document-oriented database, and REST API.

Objective

- Implement web front end using html, CSS and bootstrap using Angular/React
- Implement a system according to specifications that are provided by someone else.
- Learn to implement software analysis and design
- Learn to implement angular/React, Node.Js, Express and Mongodb
- Develop proper tier-based application

Instructions

1. This project is group task and you are allowed to work in group of maximum 3 students.
2. Cross section groups are allowed only for the sections of same instructor.
3. Each group is required to start this project using the agile principles
4. Each group will nominate a team lead and team lead will distribute the tasks to each member including himself/herself.
5. Team Lead will create a repository on GitHub for your project where each member would checkin/push the code for the allocated tasks. Your repository should be private so that no other group can access it.
6. Github Checkin history would be part of final evaluation and 20 marks are allocated for Github Checkins by each member.
7. Plagiarism is strongly forbidden and will be very strongly punished. If we find that you have copied from someone else or someone else has copied from you (with or without your knowledge) both of you will be punished. You will be awarded straight zero.
8. Each group can take help from internet resources but 70% of code should be written by the group and 30% code can be taken from online sources such as GitHub etc. If you are taking some code from online source, please mention it in your submission, otherwise it will be considered as Plagiarism and will be panelized.
9. You have to submit the project on slate.
10. Late submissions are not allowed; however, miner/cosmetic changes can be incorporated till domes on penalty of 20% deduction.

System Overview

VeteranMeet is web-based solution to connect with veterans and engage them into community services based on their interests. A veteran (from Latin vetus, meaning "old") is a person who has had long service or experience in a particular occupation or field. This application will help veterans of any profession to connect with other veterans and socialize through our platform and can participate into any community services such public talks, motivational speeches into educational institutions and organization, plantation drive and picnic etc. Additionally, they can initiate a new community service and can involve other veterans into it.

Stakeholders

• Veterans
• Public and private sector educational institutions
• Public and private organizations
• NGOs

Scope

VeteranMeet aims to provide a social platform for retired professionals to give them positive vibe of life. It consists of two modules, Veteran Module and Community Module.

Non-Functional Requirements

1. You can choose any of UI design for your web application but it must be user friendly.
2. Landing page for Leaners and admins should contain modern and interactive features.

Functional Requirements – (from SRS/RSD)

Veteran Module: 200 Marks
This module will consist of the following features:
1. Profile creation based on their profession.
2. Veterans add their hobbies (they can edit the provided hobbies too).
3. Veteran can post text multimedia or both on his/her home page.
4. Veteran can follow any other veteran and organization and can view their posts.
5. Veteran can create a new community service event or mark the already existing event as 'Interested'.
6. Veteran can view all Upcoming events according to his/her hobbies.
7. Veteran can invite followers on a community service event.
8. Veterans will use their current location to search the events happening around them. They have a choice to select different cities and types of events.
9. Veterans have 'stars' on their profiles. Whenever they attend an event the star count is increased by some points. Points are set by the Organization or Veteran who is arranging the event. One event cannot have more than 5000 stars at a time.

10. Events star count can only be set at the time of creation and cannot be edited later.
11. On the basis of star count, Veterans are categorized as
    - Silver Veteran- with 25,000 stars
    - Ruby Veteran- with 40,000 stars
    - Golden Veteran- with 50,000 stars
    - Diamond Veteran- with 60,000 stars
    - Sapphire Veteran- with 65,000 stars
    - Platinum Veteran- with 70,000 stars
    - Eternal Sage- with 100,000 stars

Community Module: 80 Marks

Community module facilitate any veteran who is interested into community service. This module will consist of the following:
1. Create Profile for Organizations, educational institutions and NGOs
2. Organization initiates a new community service event
3. Veteran connect with organization who initiate community service event by marking the event as 'Interested'.
4. Organizations can invite Veterans to join their event (only veterans with similar hobbies as their event can be invited e.g. a Veteran whose hobby is book reading only can be invited to a Book Club meet and not to some Plantation drive).
5. Organizations can set stars for their event to attract audience. One event cannot have more than 5000 stars at a time.
6. Events star count can only be set at the time of creation and cannot be edited later.

Github Check-in history by all members: 20 Marks

Community Service Events
VeteranMeet will offer following Community services:

• Public Talks
Any veteran can invite others to his/her place of interest for general meetup and discussions. Organizations can invite Veterans for public speaking too.

• Motivational Talks
Any Organization can invite a Veteran for motivational talk for their employees or students.

• Professional Talk
Any Organization (whose sector of work matches with the Veterans hobby/interest) can invite them for professional training of their employees.

• Professional Task
Any Organization (whose sector of work matches with the Veterans hobby/interest) can invite them for professional tasks such as assistance ,monitoring, implementing new process and policies and decision making.

• Plantation Drives
Any NGO can invite them for plantation drive. A Veteran can also create a plantation drive and invite their followers.

• Orphanage Visit
Any NGO can invite them for orphanage visit. A Veteran can also arrange an orphanage visit and invite their followers.

• Visiting patients into hospitals

Any NGO can invite them for visiting patients in hospitals. A Veteran can also arrange a hospital visit and invite their followers.
• **Recreational Visit**
Veteran/Organizations can invite others for recreational Trip/Visit of any place of interest.
• **Old Home Visit**
Any NGO can invite them for visiting different old homes. A Veteran can also arrange an old home visit and invite their followers.
• **Book Reading/Discussion**
Any NGO/Veteran can arrange a book reading/discussion session and invite others.

Just Code it and Be a Full stack Developer!

Happy Coding.