COP 4710 Project

Exhibition Center Event Website

(Fall 2020)

Problem:

An Exhibition center in the city hosts various events throughout the year, at multiple locations. These events are of different types: social, fundraising, tech talks, arts and craft etc. At the moment, each person who wishes to attend an event has to create a unique login on every different event host's website, in order to add each event to his/her calendar. The Exhibition center's management wants a website that would present all the different events on its own main website, which would facilitate different event managers/hosts to present their details on it, and event attendees to sign-up for these events.

Project Description:

You are asked to implement a web application that solves the aforementioned problems. Any person may register with this application to obtain a user ID and a password. There are different types of events (social, fundraising, tech talks, etc.). Each event can be seen by the users. Events must be approved by the super admin. After an event has been published, users can opt-in to attend them, opt out, post comments, rate the event (with up to 5 stars). There are three user levels:

1. super admin: (singular) (which is your team), who offers this online service
2. admin: who may host events at a certain location, your online service
3. person/user: who uses the application to look up information about the various events and sign up for them.

Tasks at the different levels:

1. Superadmin: Uses their dashboard to view/retrieve events based on: date, time, category, event-name, event-admin etc. Ensures a harmonious event time schedule upon getting event requests from administrators (only in the backend).
2. Admin: Creating and managing an event. Puts event name, description, event category, time, date, location, website URL, contact phone, email address etc. Each admin may be affiliated with one or more events.
3. User: Uses their dashboard to view events page, registers for one or more events, comments and rates the event they join. A User can also become an admin if they wish to make a new event. Users must sign up with your(superadmin's) website to use the service.

Additional note:

As the first person responsible for pre-populating the database, the super admin fills the database with groundwork information like location, description, capacity of people it can host, stock pictures etc. (unique things about that location, from which users and administrators may be able to choose). The design as described above is intentionally kept simple, to leave room for innovation. Individual students may add creative features to make it more user friendly. Any user may attend an exhibit event as an event participant. The website allows a participant to select from the on-going and upcoming events to attend. The user should be re-directed to that individual events' website, which is being hosted as an independent service. (Please note that the website the user is redirected to, should be a bare minimum portrayal. A full-scale website is not expected again at this stage).

Technical Requirements:

- Your implementation should follow the database design process: business operations/constraints, ER-model, the relational model, normalization, implementation etc.
- You need to come-up with relational tables and sample data that are required for the project implementation.
- Your database application must have a browser-based interface and ready to be deployed on the Internet. It must be able to support multiple concurrent users.
- Nice user interface is encouraged but not required.
- Programming languages that can be used for the project: HTML, CSS, JDBC, Java, Javascript, PHP. DBMS's: Oracle, SQL Server, and MySQL, or anything else that you might be familiar with, but do not use any shortcut tool).
- If you plan on using tools/languages of your choice, and have doubts regarding anything, please contact the TA's directly.

Features for Extra Credits: The application may offer these additional features:

a. Social network integration: Posting from the website to Facebook, Twitter or any other platform.

b. Calendar

c. Google maps location

d. Email notifications

e. Password hashing.

Grading Policy:

Group Presentation and Demo	70%
Group Project Report	10%
Participation	20%
Extra Credits	30%

- **Group Presentation and Demo:** There would be two Zoom sessions, 1 held by each TA Each team has 10 minutes to demo the software. You need to use your own laptop and may host the servers on the same computer. Each team member demonstrates the functionality he/she implemented. Everyone is expected to take part in the demo.
- **Group Project Report:** This project report provides the ER diagram to explain the database design and discuss how your software is implemented using the development environments selected for your project. Each group member should upload the same report on the assignments section that will be created on webcourses.
- **Participation:** This is an individual score based on your performance at the demo presentation and your cooperation with other group members in completing the project. Each student in the group will review their peers about their engagement in the Project. Based on the majority vote, we would be deciding whether a student has really participated in the project or not. A student may want to make up for a low participation score by earning the extra credits discussed below.
- **Extra Credits:** This is a score for an individual effort on improving the team product. Student who wants to earn extra credits needs to extend the software developed by the team to add additional features.

The presentation date is Dec 9th, 2020, 4 pm to 6:50 pm.

The project is due on Dec 9th, 2020, at 11:59pm.