COURSE PROJECT:
A SOCIAL NETWORK FOR EVENTS

RELEASED: **6 JULY 2020**
DUE: **17 JULY 2020**

SYNOPSIS

In a group of 2–3 students, you are going to set up a tiny social network for some events in Hong Kong. Your project app will retrieve events from Hong Kong government datasets, and allow users to favourite and also comment on certain events.

DATA SOURCE

You have to access the public government data API for actual data here:

- List of EventHK with detail information
  https://data.gov.hk/en-data/dataset/hk-ogcio-st_div_03-eventhk-information/resource/74bd4ffd-3c2e-4523-9eb8-8f313a288a08

If you identify a comparable dataset of events from another source, you may propose to use it by emailing to chuckjee@cse.cuhk.edu.hk.

ACCESS MODES

Users – Only users have access to the app contents. A user is recognized using a username (unique string of 4–20 characters) and password (string of 4–20 characters, stored hashed) pair. The user will be able to see event details, maintain a list of favourite events, and leave comments on events. The user will also be able to perform CRUD actions to the event data.

STORING DATA

You need to design the data schemas and models for storing items. For the events, you are required to maintain at least:

- Event summary
- Event date(s)
- Event organizer
- Event location
- *One more attribute you find useful from the dataset*

You need to design your database access according to that. Only English data is required for the project app. For the schema and model for users and other social networking components, you may design freely to suit your needs.

APPLICATION REQUIREMENTS

User actions:

1. List all events in a table, and allow sorting of the table with ***one*** of the listed fields
2. Search for events which contain certain keywords in ***one*** field chosen by the user which will result in a table of event results similar to that in the above item
3. A separate view for one single event, containing the event details and also user comments, where users can add new comments (*non-threaded*)
4. Add events into a list of favourite events, and see the list in another view (*flexible implementation*)
5. Flush data, i.e. reload from the online dataset
6. CRUD event data in the local database
7. See username in the top right of screen, and be able to log out

Non-user actions:

1. Log in as user with username and password

You may introduce pagination if you see fit, but it is not a requirement.

SYSTEM REQUIREMENTS

Your app will need to be built on a Linux virtual machine provided by the department. It should be hosted in the account of one of the members. *Details are provided in Lab 6+7.*

Your project app needs to be a ***Single Page Application***, without refreshing the page for any internal links. However, visits to all different views should be reserved in the browser history, with a proper URL.

You should be using Node.js/Express and MongoDB. Other than that, you may freely decide the technologies and frameworks to be used in this project. The grading will be done using Google Chrome (*almost-newest versions*), so your app should at least serve HTML and relevant styling and scripting codes. (Frameworks like React is not a requirement.)

"ABOUT THIS PROJECT"

You need to include one extra section in your project app, and name it "About This Project". This article should describe:

1. Names and workload distribution of each group member
2. Basic "how-to" of your project app
   -- *If there are requirements that is not implemented, please indicate.*
3. Design of data schemas and models of your database (figures are welcome)
4. Indicate whether or not you have read this article carefully:
   http://www.cuhk.edu.hk/policy/academichonesty

All the text in this page should also be save in another ***Readme*** file to be submitted together with your work. In this file, please also describe the steps to execute/access your app.

SUBMISSION AND ASSESSMENT

Include full names and student IDs of all members in ***all code files*** using comments. Zip all your files and submit it on the course site on Blackboard.

If there is, you do not need to submit the `node_modules` ***folder.***

During the project demo, your project will be graded by:

- Technical requirements – *fulfilment* and *complexity* (60%)
- Usability – *look and feel* (30%)
- Project demo communication (10%) on **July 17 (Friday)** after Final Exam