

# CSCI 2720 / ESTR 2106 – Building Web Applications

## Course Project Demo

This document demonstrates some screen captures of a finished project provided by our TA Long Zeling. This demo only fulfills the basic requirement. In your project, you are encouraged to put more effort into designing extra features and decorating the layout.

### Basic Application Requirements

User actions:

1. List all locations in a table as links to single locations and allow sorting the table with location names, distances, and the number of events at venue.

[Example](#)[Home](#)[Location List](#)[Event List](#)[Map](#)[Favourite list](#)[No idea?](#)

Area ▼

Distance (km)

PREVIOUS

NEXT

ID	LOCATION <span>↕</span>	DISTANCE (KM) <span>↕</span>	NUMBER OF EVENTS <span>↕</span>	Add to Favourite
872	Tsuen Wan Town Hall	11.02 km	2	<input checked="" type="checkbox"/>
50110015	Hong Kong Cultural Centre (Grand Theatre)	14.49 km	2	<input checked="" type="checkbox"/>
87510305	Hong Kong City Hall (Exhibition Hall)	15.98 km	5	<input type="checkbox"/>
87410028	Ngau Chi Wan Civic Centre (Cultural Activities Hall)	9.50 km	8	<input checked="" type="checkbox"/>
87110023	Kwai Tsing Theatre (Auditorium)	10.81 km	9	<input type="checkbox"/>
76810049	Tuen Mun Town Hall (Cultural Activities Hall)	23.77 km	11	<input checked="" type="checkbox"/>
36310035	Sha Tin Town Hall (Auditorium)	4.60 km	12	<input checked="" type="checkbox"/>
36310593	Sha Tin Town Hall (Lecture Room 1)	4.60 km	21	<input type="checkbox"/>
76810312	Tuen Mun Town Hall (Conference Room)	23.77 km	22	<input checked="" type="checkbox"/>
87310196	Yuen Long Theatre (Lecture Room)	18.97 km	29	<input checked="" type="checkbox"/>

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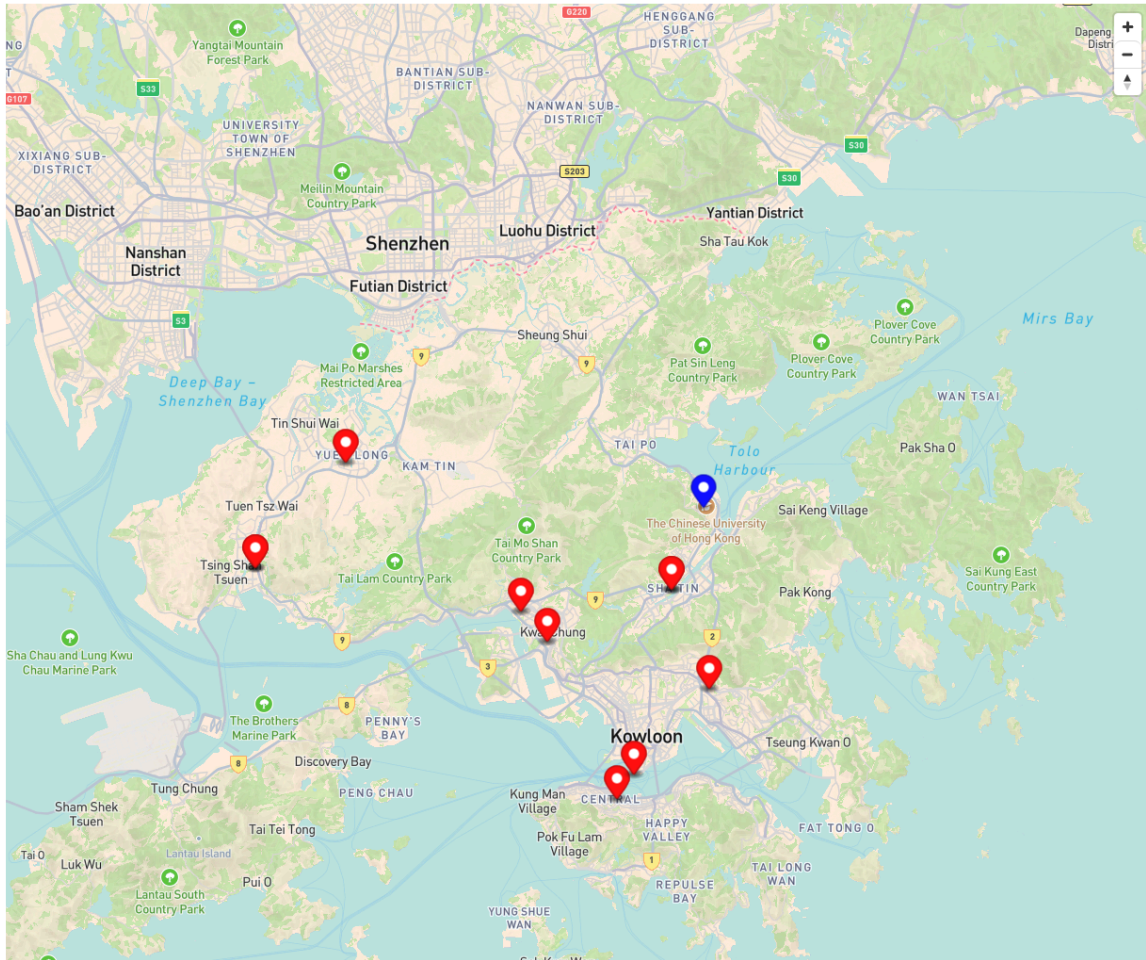
Last updated time: 24/10/2025, 14:05:51

2. Show all locations in a map, with links to each single location (suggested APIs: Google Maps, OpenStreetMap or MapBox).

[Example](#)

[Home](#) [Location List](#) [Event List](#) [Map](#) [Favourite list](#) [No idea?](#)

A



3. Filter locations by keywords, areas, and distance (e.g., within x km), with dynamic updates to the location list and map without page refresh.

📍 Example

[Home](#) [Location List](#) [Event List](#) [Map](#) [Favourite list](#) [No idea?](#)

A

Area Distance (km) PREVIOUS NEXT

ID	LOCATION	DISTANCE (KM)	NUMBER OF EVENTS	Add to Favourite
50110015	Hong Kong Cultural Centre (Grand Theatre)	14.49 km	2	<input checked="" type="checkbox"/>
87510305	Hong Kong City Hall (Exhibition Hall)	15.98 km	5	<input type="checkbox"/>

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📍 Example

[Home](#) [Location List](#) [Event List](#) [Map](#) [Favourite list](#) [No idea?](#)

A

Area Distance (km) PREVIOUS NEXT

ID	LOCATION	DISTANCE (KM)	NUMBER OF EVENTS	Add to Favourite
872	Tsuen Wan Town Hall	11.02 km	2	<input checked="" type="checkbox"/>
87410028	Ngau Chi Wan Civic Centre (Cultural Activities Hall)	9.50 km	8	<input checked="" type="checkbox"/>
87110023	Kwai Tsing Theatre (Auditorium)	10.81 km	9	<input type="checkbox"/>
36310035	Sha Tin Town Hall (Auditorium)	4.60 km	12	<input checked="" type="checkbox"/>
36310593	Sha Tin Town Hall (Lecture Room 1)	4.60 km	21	<input type="checkbox"/>

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📍 Example

[Home](#) [Location List](#) [Event List](#) [Map](#) [Favourite list](#) [No idea?](#)

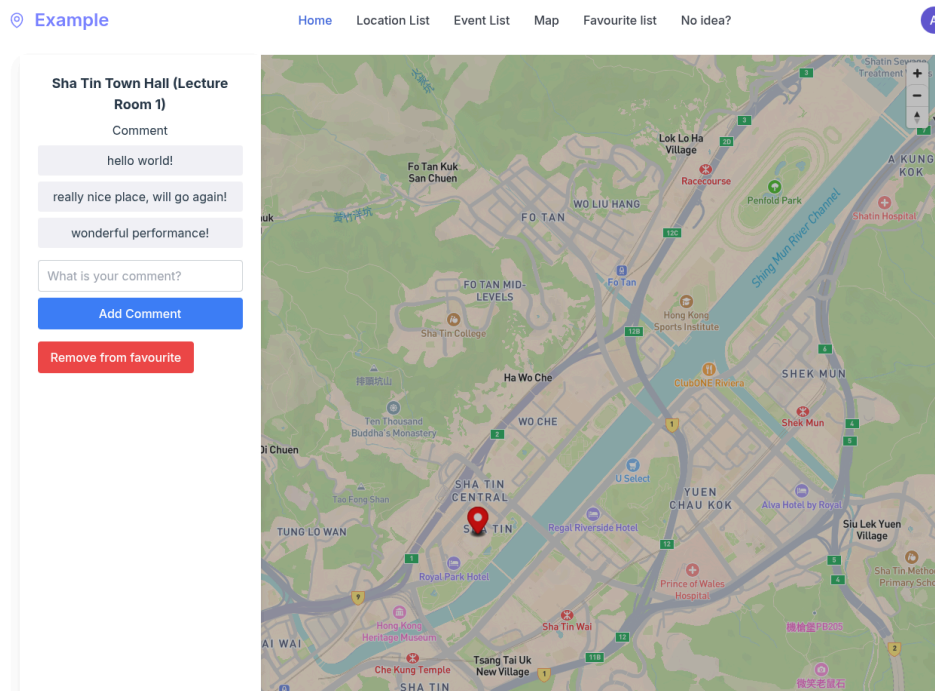
A

Kwai Tsing Distance (km) PREVIOUS NEXT

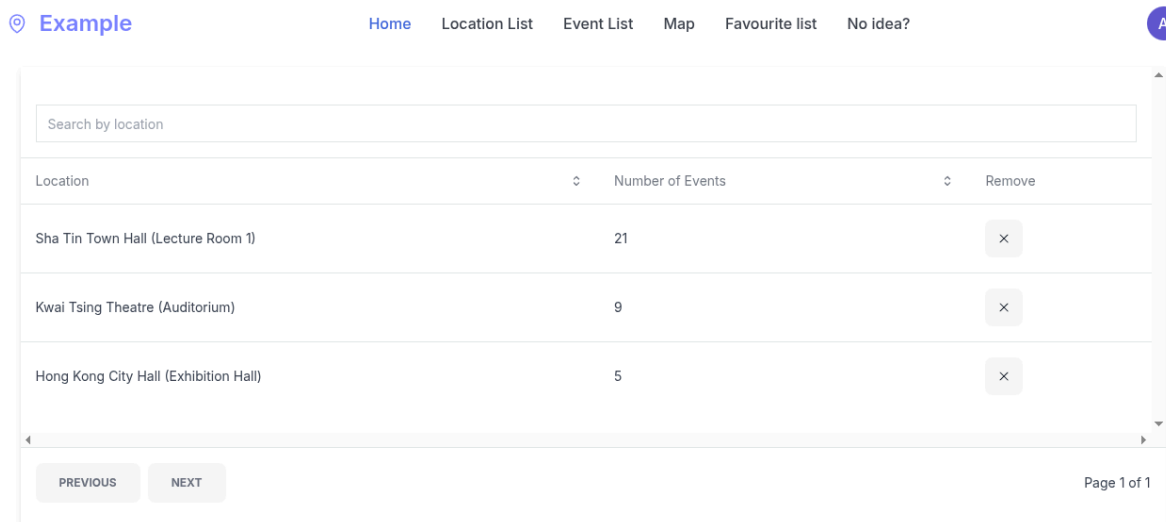
ID	LOCATION	DISTANCE (KM)	NUMBER OF EVENTS	Add to Favourite
87110023	Kwai Tsing Theatre (Auditorium)	10.81 km	9	<input type="checkbox"/>

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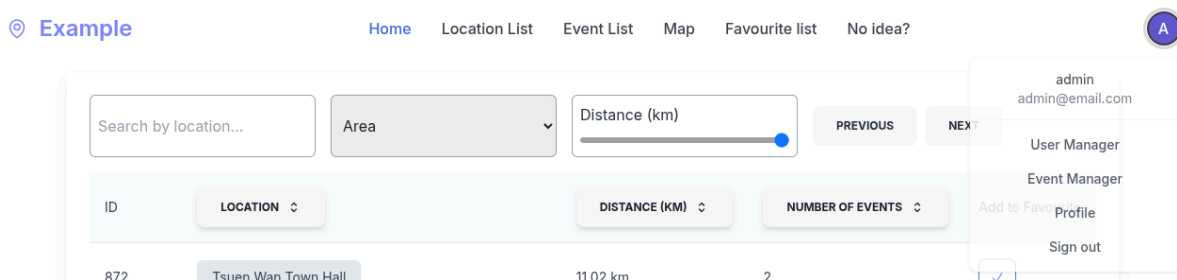
- A separate view for one single location, containing: a) A map showing the location. b) The location details. c) User comments, where users can add new comments seen by all other users.



- Add location into a list of user's favourite locations and see the list in another view.



- See the username in the top-right of screen and be able to log out.



Admin actions:

- 1. CRUD stored event details in the local database.
  - a. We will not test other features (e.g., map, comments) if deleting an existing location.

Example

HomeLocation ListEvent ListMapFavourite listNo idea?

New Event

Search events by title...

Last Updated on 24/10/2025, 14:07:12

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EVENT TITLE	DESCRIPTION	VENUE	PRICE	PRESENTER(S)	DATE & TIME	ACTIONS
2024 Hong Kong Youth Chinese Orchestra Annual Concert "Voyage. Rainbow. Dream of Red Chamber"	N/A	Sha Tin Town Hall (Auditorium)	\$115, 90, 70	Presented by Leisure and Cultural Services Department	1 Dec 2024 (Sun) 7:30pm	<div>Update</div> <div>Delete</div>
Cantonese Opera Excerpts	N/A	Sha Tin Town Hall (Auditorium)	\$50	Presented by Sha Tin Arts Association	28 Dec 2024 (Sat) 7:15pm	<div>Update</div> <div>Delete</div>
Cantonese Operatic Songs Concert	N/A	Sha Tin Town Hall (Auditorium)	Free admission by tickets	Presented by The Phoenix Sound Chinese Opera Troupe	24 Dec 2024 (Tue) 2:15pm	<div>Update</div> <div>Delete</div>
Cantonese Operatic Songs Concert	N/A	Sha Tin Town Hall (Auditorium)	\$280, 120, 60	Presented by Jade Flower Cantonese Operatic Society	23 Dec 2024 (Mon) 7:00pm	<div>Update</div> <div>Delete</div>
Joe Mok's Concert	N/A	Sha Tin Town Hall (Auditorium)	\$680, 480, 280	Presented by Cultural Stage Creation Centre	16 Dec 2024 (Mon) 7:30pm	<div>Update</div> <div>Delete</div>
Mei Lam Cantonese	N/A	Sha Tin Town	Free admission	Presented by Mei Lam Cantonese	27 Dec 2024 (Fri)	<div>Update</div> <div>Delete</div>

- 2. CRUD user data (username and password only) in the local database.
  - a. We will not test other features (e.g., comments) if deleting an existing user.

Example

HomeLocation ListEvent ListMapFavourite listNo idea?

New User

Search users by username...

Last Updated on 24/10/2025, 14:07:42

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NAME	ROLE	ACTIONS
admin admin@email.com	Admin	<div>Edit</div> <div>Delete</div>
zeling zlong25@cse.cuhk.edu.hk	User	<div>Edit</div> <div>Delete</div>

Previous

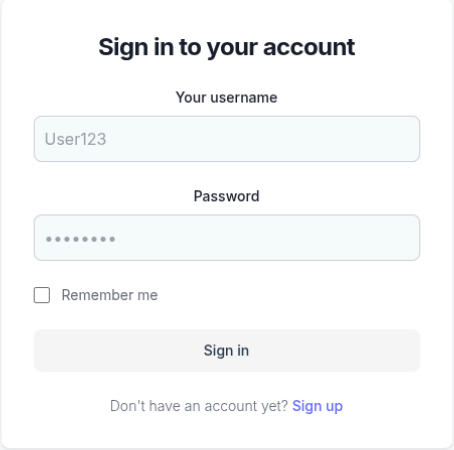
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- 3. Log out as admin. (Same as User Action 6)

Non-user actions:

1. Log in as user with username and password.
2. Log in as admin using username and password.



**Sign in to your account**

Your username

User123

Password

.....

☐ Remember me

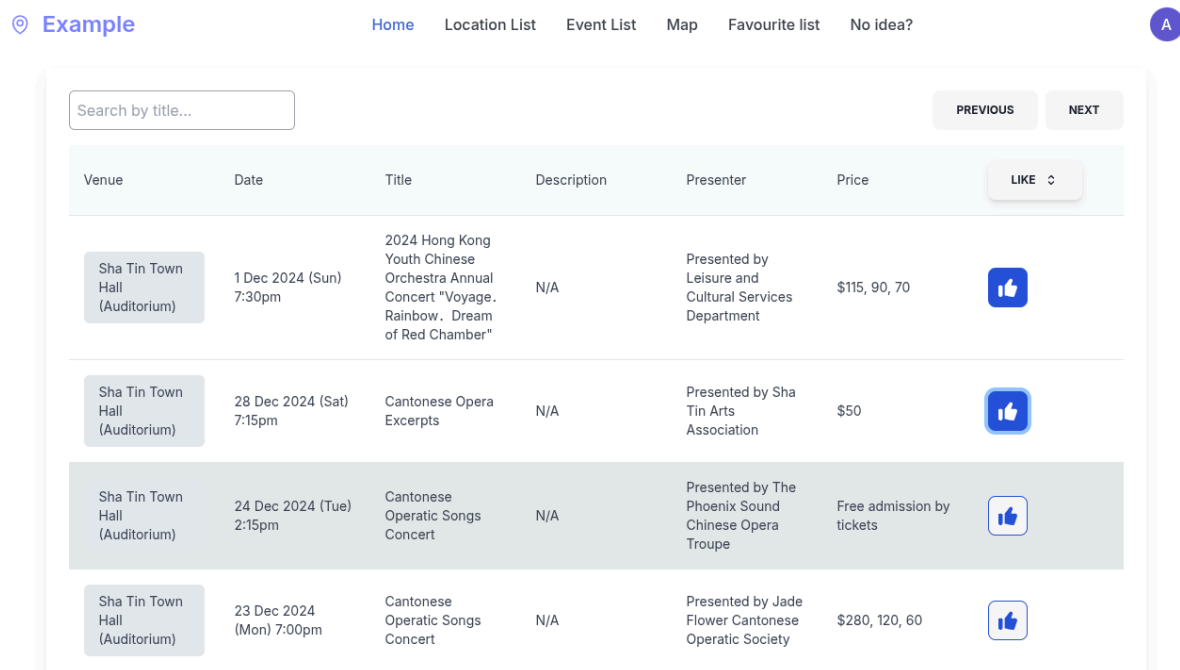
Sign in

Don't have an account yet? [Sign up](#)

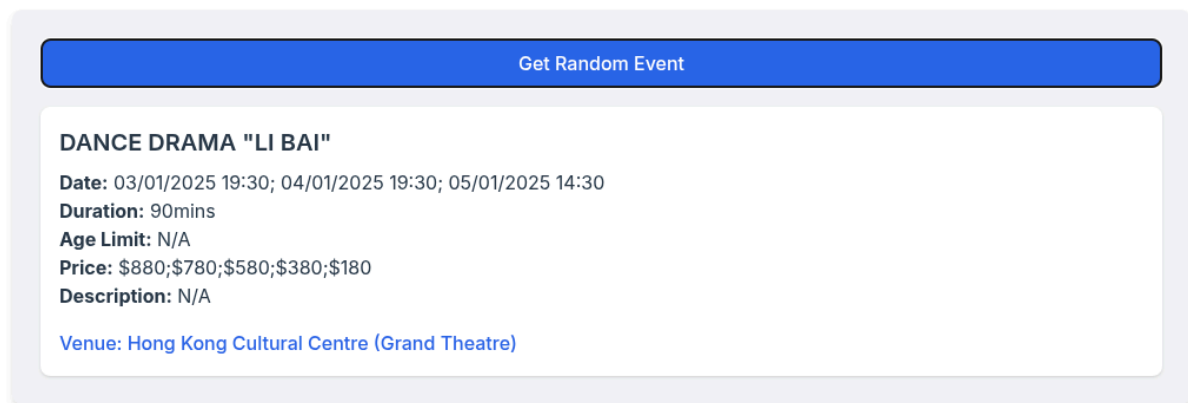
## Extra Features

We provide two possible extra features here:

1. Including a like button, similar to Facebook, for users to interact with events.



2. A random event picker, similar to Google's "I'm Feeling Lucky" button.



It's not necessary to follow my suggestions above. Feel free to design any appropriate feature for your website.