

Project - Real Time Event Recommendation System

User Manual

Aim: Build a recommendation system for events.

Brief technology introduction of our project:

We used 6 classes to implement this project: JsonParse, EventbriteAPI, Event, Main_User_API, OpenURLAction, DataAnalysis.

Junit Testing was implemented in the test package, while all other classes were implemented in the main package.

To run our code, go inside the main package, build path and configure for JSON java jar and run the Main_User_API function, to choose preferences and get a the top 5 events as output to the user.

Functionality:

JsonParse: Class to parse json response into json objects from the API website

EventbriteAPI: Class consists of methods for getting events' category and subcategory IDs

Event:Creates event objects with instance variables: name, url, description,Id and status

Main_User_API: Implements the main method, making API call and displaying the GUI.

OpenUrlAction: Class to allow opening URL using GUI

DataAnalysis: To sort the ArrayList of events obtained from the API after parsing data to create an arraylist of events sorted on the basis of their status.The getLiveEvents() method returns only live events from the eventlist obtained from the API.

Step-by-Step guide:

Run the Main_User_API with the package main to pick your preferences.

To test, use test package for Junit testing.

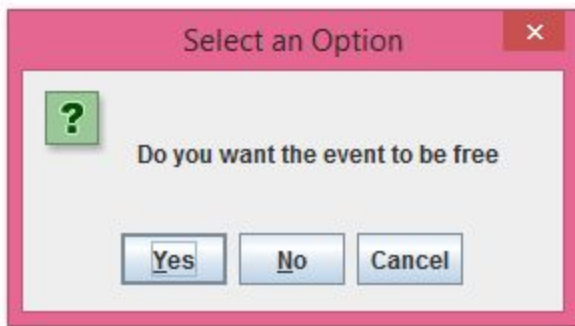
1)Users are asked to choose from a set of events categories.



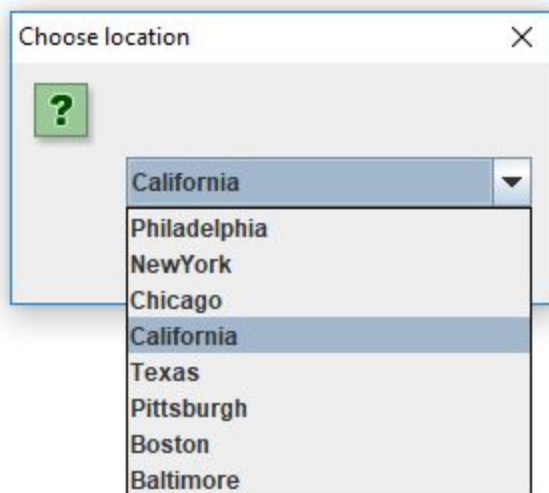
2)Based on the selection, they are given corresponding subcategories to choose from.



3) They are then asked to confirm if they would like a free event or not. A cancel selection means the user is okay with either type of events.



4) User is then asked to choose a location for the event.



5) Based on the input, an API call is made and the data is obtained.

After parsing and sorting it based on their status, an arraylist of live events is created.

6) Top 5 events are chosen from this arraylist, sorted on the basis of status of the event being live and nearest distance from the location entered by the user.

7)The events with their name, as an hyperlink to the website of 5 events is displayed to the user., if event does not occur, a pop up box, informs the user of the same.

