

COMM5961

Assignment 4

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## **I. Functional Requirements and Information Requirements**

This website will mainly provide information needed before the performance and also involve some information needed during and after the performance.

1. Upcoming live concerts information and arrangement for scheduling:

Name of performance, date, time, bands or artists, venues and addresses of venues, ticket prices.

2. Related bands and artists information for planning and selecting:

Brief introduction, music genre, online audio music, comments from music lovers, fans and professional music critics, ratings of albums.

3. Booking and purchasing information for buying tickets:

All the links and platforms available for purchasing tickets, different time periods for purchasing tickets of different prices, second-purchasing online community.

4. Performance-related information for reviewing and sharing:

Lists of songs performed during the live concerts, photos and videos.

## **II. Potential Sources of Data**

Latest live concerts information: social platforms including weibo and WeChat official accounts.

Bands and artists information: music critics' weibo accounts, ratings and comments from Douban website, introduction and music of the bands from Wangyiyun app.

Tickets purchasing information: Xiudong website, Maoyan website, Weidian website, etc.

## **III. Shortcomings in Existing Information**

Existing Information is so fragmented. People have to change from one website to another in order to get all the information they need before going to a live concert. Actually, the web scrapping result shown in Assignment\_4 jupyter notebook is a fragment of information. It only shows the live concerts which can be purchased on Xiudong and only the ones which already started to sell tickets.

There are still many performances available on other ticket purchasing websites. And many performances are announced on social platforms without showing information on other websites because they haven't started to sell tickets yet. Sometimes the existing information can also be outdated. It doesn't mean the date of performance has passed. But still, considering that many performances need to be planned early enough in order to be ready to get the tickets in time, information of many performances on purchasing website, including Xiudong, is updated only before the day of buying tickets. This delay of information may let people fail to get the tickets they want because the number of tickets is limited.

#### **IV. Strategy to Obtain Non-existing Data**

To complete information requirements, there are still non-existing data including the location data from maps and lists of songs performed during the live concert. For the location data, they can be obtained through API. However, it may be too difficult to use this semester. I think that maybe a link, in which a location is already visualized and specified, can be an alternative. A picture of map with marks of location can be also used. Considering lists of songs, they can be obtained in music lovers' song lists through music apps. People may also post them through an image on social media platforms. Perhaps the information in pictures can be identified by some machine learning programs and then used as data on the website.