**Data Resource**:

1. Singers and Songs: Making Web Crawlers by using python (i.e.: Scrapy)

1) Use the singer page of 163music as an index page to grab all the singers;

2) Catch all albums by all singers;

3) Grab all music through all albums;

4) Save the relative data to make Singer tables and Song tables in the database.

1. Users: Input by the visitors of our web

1) Create user account

2) Fill out the information and automatically create User table in the database