Design Document for fit5192a1

WanChen

26346966

Category

1. Completed Tasks

The four tasks are all completed and I show these finished important parts below.

Task 1 (worth 8%):

1. Write a web service that accepts requests for a certain movie and retrieves relevant information based on the requests from a personalised database.
2. At least 10 movies.

Task 2 (worth 10%):

1. Write a web-based client search application that accesses the web service you created in Task 1, together with Google, YouTube and Flickr for the requested DVD/movie item.
2. Have a well-organised layout and user friendly GUI which can play the video for user.
3. Embed the video in web-based client application instead of simply providing a link.

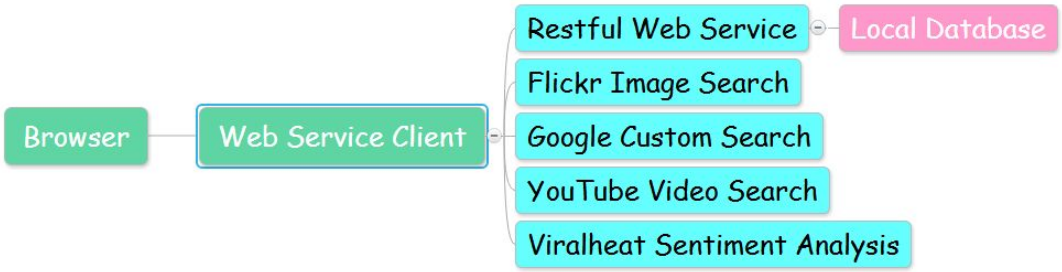
Task 3 (Worth 4%):

Extend web service with an extra operation that allows the user to add new movies to database.

Task 4 (Worth 3%) - EXTENSIONS:

Extend work by performing some simple sentiment analysis using viralheat to say whether the general opinions about the movie are negative or positive.

2. Architecture Diagram



3. Database structure

The database called id26346966.sql has seven columns which are: id, title, rDate, genres, director, url and storyline. Ten original movies list have been set up. One of example has been shown below.

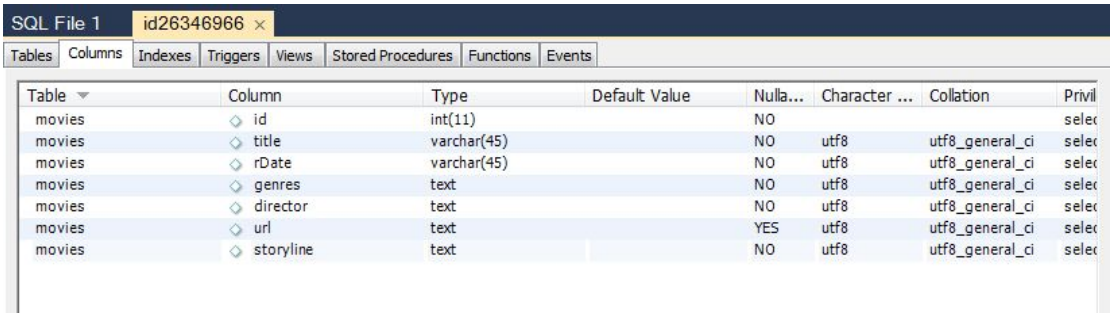
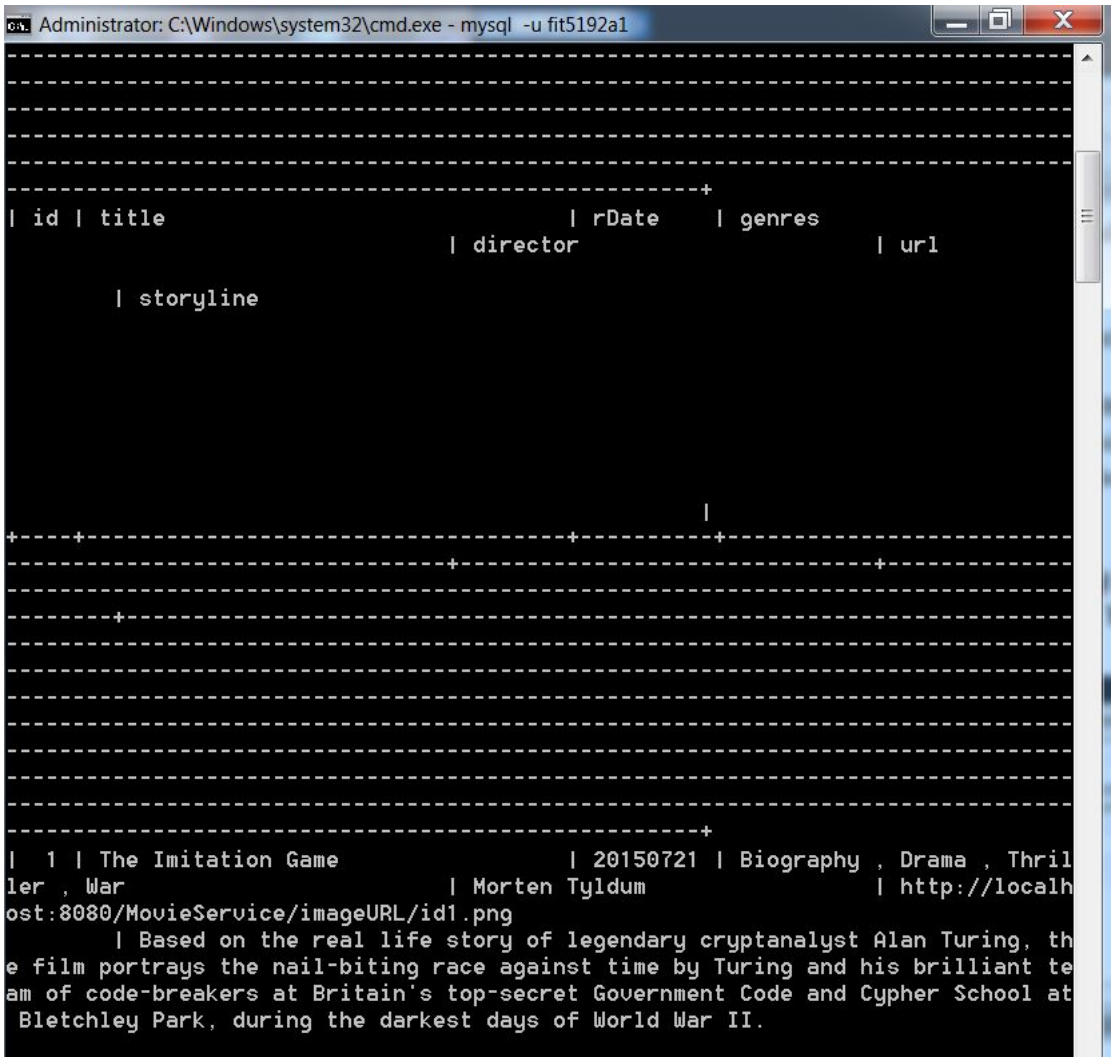


Table	Column	Type	Default Value	Nulla...	Character ...	Collation	Privil
movies	id	int(11)		NO			selec
movies	title	varchar(45)		NO	utf8	utf8_general_ci	selec
movies	rDate	varchar(45)		NO	utf8	utf8_general_ci	selec
movies	genres	text		NO	utf8	utf8_general_ci	selec
movies	director	text		NO	utf8	utf8_general_ci	selec
movies	url	text		YES	utf8	utf8_general_ci	selec
movies	storyline	text		NO	utf8	utf8_general_ci	selec



4. Comfiguration parameters

Test page of web service

http://localhost:8080/MovieService/test-resbeans.html

Access point of web service

http://localhost:8080/MovieClient/

JNDI and connection pool

jndi-name="MoviesInterface"
pool-name="mysql_id26346966_fit5192a1Pool"

Extra domain.xml information

<jdbc-connection-pool allow-non-component-callers="false" associate-with-thread="false" connection-creation-retry-attempts="0" connection-creation-retry-interval-in-seconds="10" connection-leak-reclaim="false" connection-leak-timeout-in-seconds="0" connection-validation-method="auto-commit" datasource-classname="com.mysql.jdbc.jdbc2.optional.MysqlDataSource" fail-all-connections="false" idle-timeout-in-seconds="300" is-connection-validation-required="false" is-isolation-level-guaranteed="true" lazy-connection-association="false" lazy-connection-enlistment="false" match-connections="false" max-connection-usage-count="0" max-pool-size="32" max-wait-time-in-millis="60000" name="mysql_id26346966_fit5192a1Pool" non-transactional-connections="false" pool-resize-quantity="2" res-type="javax.sql.DataSource" statement-timeout-in-seconds="-1" steady-pool-size="8" validate-atmost-once-period-in-seconds="0" wrap-jdbc-objects="false">

<property name="serverName" value="localhost"/>

<property name="portNumber" value="3306"/>

<property name="databaseName" value="id26346966"/>

<property name="User" value="fit5192a1"/>

<property name="Password" value=""/>

<property name="URL" value="jdbc:mysql://localhost:3306/id26346966?zeroDateTimeBehavior=convertToNull"/>

<property name="driverClass" value="com.mysql.jdbc.Driver"/>

</jdbc-connection-pool>

<jdbc-resource enabled="true" jndi-name="MoviesInterface" object-type="user" pool-name="mysql_id26346966_fit5192a1Pool"/>

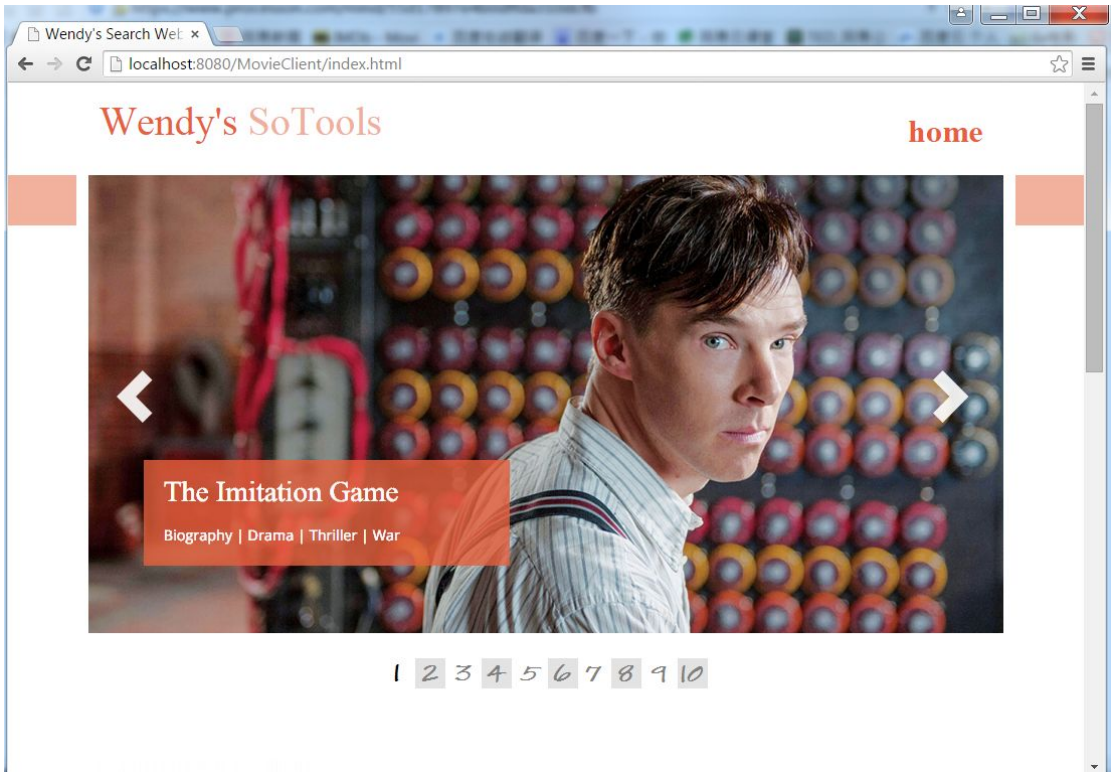
```
<resources>
    <jdbc-connection-pool allow-non-component-callers="false" associate-with-thread="false" connection-creation-retry-
    attempts="0" connection-creation-retry-interval-in-seconds="10" connection-leak-reclaim="false" connection-leak-timeout-
    in-seconds="0" connection-validation-method="auto-commit" datasource-classname="com.mysql.jdbc.jdbc2.optional.
    MysqlDataSource" fail-all-connections="false" idle-timeout-in-seconds="300" is-connection-validation-required="false" is
    -isolation-level-guaranteed="true" lazy-connection-association="false" lazy-connection-enlistment="false" match-
    connections="false" max-connection-usage-count="0" max-pool-size="32" max-wait-time-in-millis="60000" name="
    mysql_id26346966_fit5192a1Pool" non-transactional-connections="false" pool-resize-quantity="2" res-type="javax.sql.
    DataSource" statement-timeout-in-seconds="-1" steady-pool-size="8" validate-atmost-once-period-in-seconds="0" wrap-jdbc-
    objects="false">
        <property name="serverName" value="localhost"/>
        <property name="portNumber" value="3306"/>
        <property name="databaseName" value="id26346966"/>
        <property name="User" value="fit5192a1"/>
        <property name="Password" value=""/>
        <property name="URL" value="jdbc:mysql://localhost:3306/id26346966?zeroDateTimeBehavior=convertToNull"/>
        <property name="driverClass" value="com.mysql.jdbc.Driver"/>
    </jdbc-connection-pool>
    <jdbc-resource enabled="true" jndi-name="MoviesInterface" object-type="user" pool-name="mysql_id26346966_fit5192a1Pool"
    />
</resources>
```

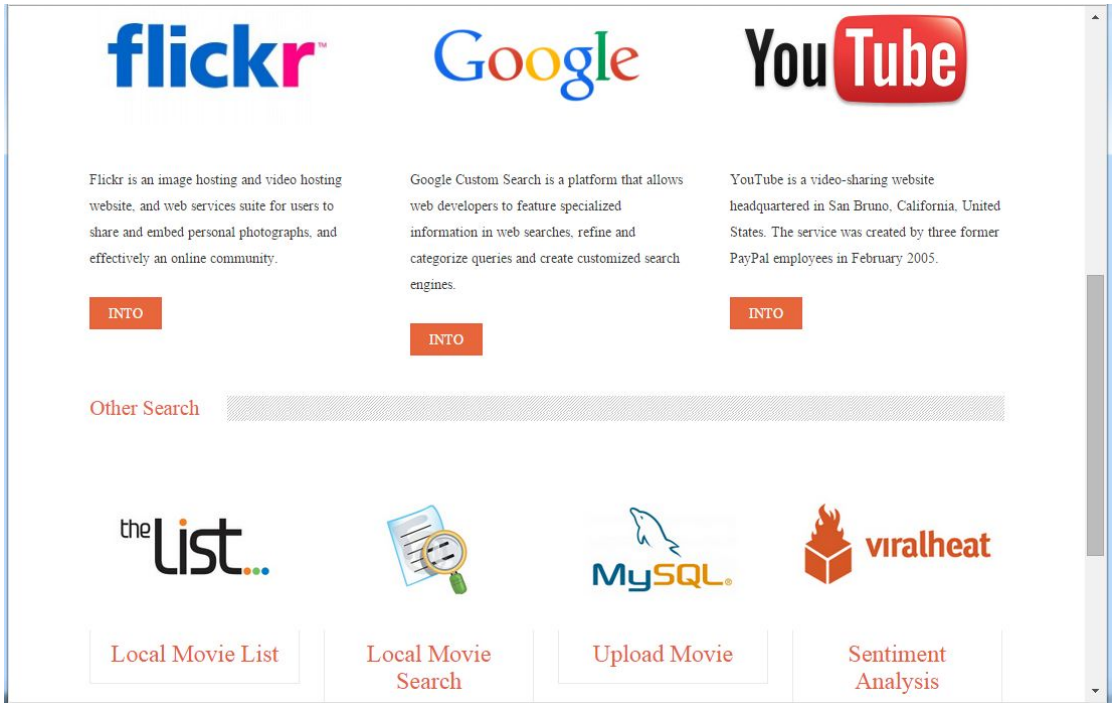
5. User Guide

Visit the home page

localhost:8080/MovieClient/index.html, we see the following result.
I call it “Wendy’s SoTools” because of my English name. In this page, it has function:

a. The “home” button in every pages can be clicked and then back to the home page directly.
b. The pictures and related genres about the original ten movies in mysql database can be showed as a slider. There are thumbnail icons for each slide and you can click it for directly jump to the specified slides.
c. Flickr, google, youtube-- the three search methods connect to their api respectively.
    1) Flickr is primarily a image search.
    2) Google can search related information and give the linked URL to go to the new pages.
    3) YouTube is primarily a video search.
    All these details followed in their own introduction.
d. The other searches can be showed as followed.
    1) Local movie list is to give a overall impression on the original movie name.
    2) Local movie search has access to search the local movies information about director, release date and so on.
    3) Upload movie is for clients to upload the movie to localhost databases.
    4) Sentiment analysis is to obtain the positive or negative attitude about movies.
e. The footer is two parts, one is the summary about my SoTools and the other part is some of my personal information. This footer used in all the pages.


Wendy's Search Wel
localhost:8080/MovieClient/index.html
Wendy's SoTools
home
The Imitation Game
Biography | Drama | Thriller | War
1 2 3 4 5 6 7 8 9 10


flickr
Google
YouTube
Flickr is an image hosting and video hosting website, and web services suite for users to share and embed personal photographs, and effectively an online community.
INTO
Google Custom Search is a platform that allows web developers to feature specialized information in web searches, refine and categorize queries and create customized search engines.
INTO
YouTube is a video-sharing website headquartered in San Bruno, California, United States. The service was created by three former PayPal employees in February 2005.
INTO
Other Search
the List
MySQL
viralheat
Local Movie List
Local Movie Search
Upload Movie
Sentiment Analysis


about SoTools
Wendy's SoTools achieves the main search function from localhost, Flickr, Google and YouTube respectively.
Wendy's SoTools adds some additional functions such as upload new movies' info and sentiment analysis.
contact me
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Monash ID:26346966
cwan238@student.monash.edu

Into the flickSearch.html

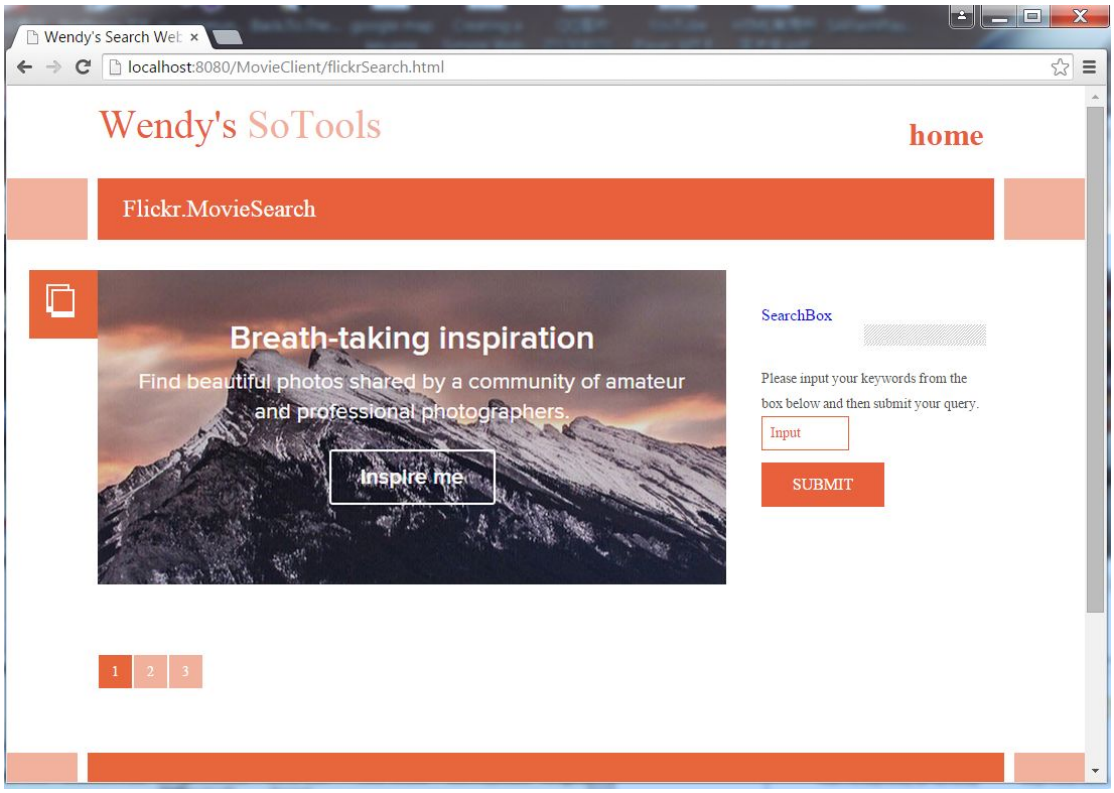
http://localhost:8080/MovieClient/flickrSearch.html. There are functions:

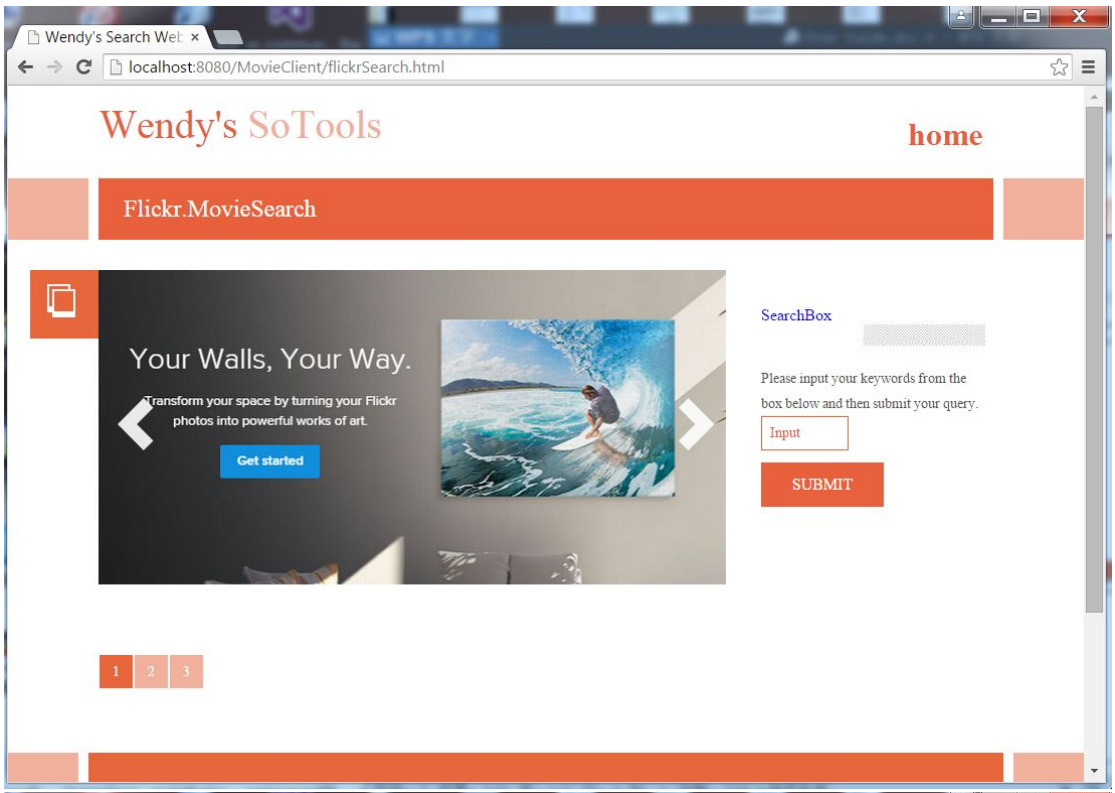
a) The image about Flickr in the page below can also be a slider, so i give two different image to prove it.

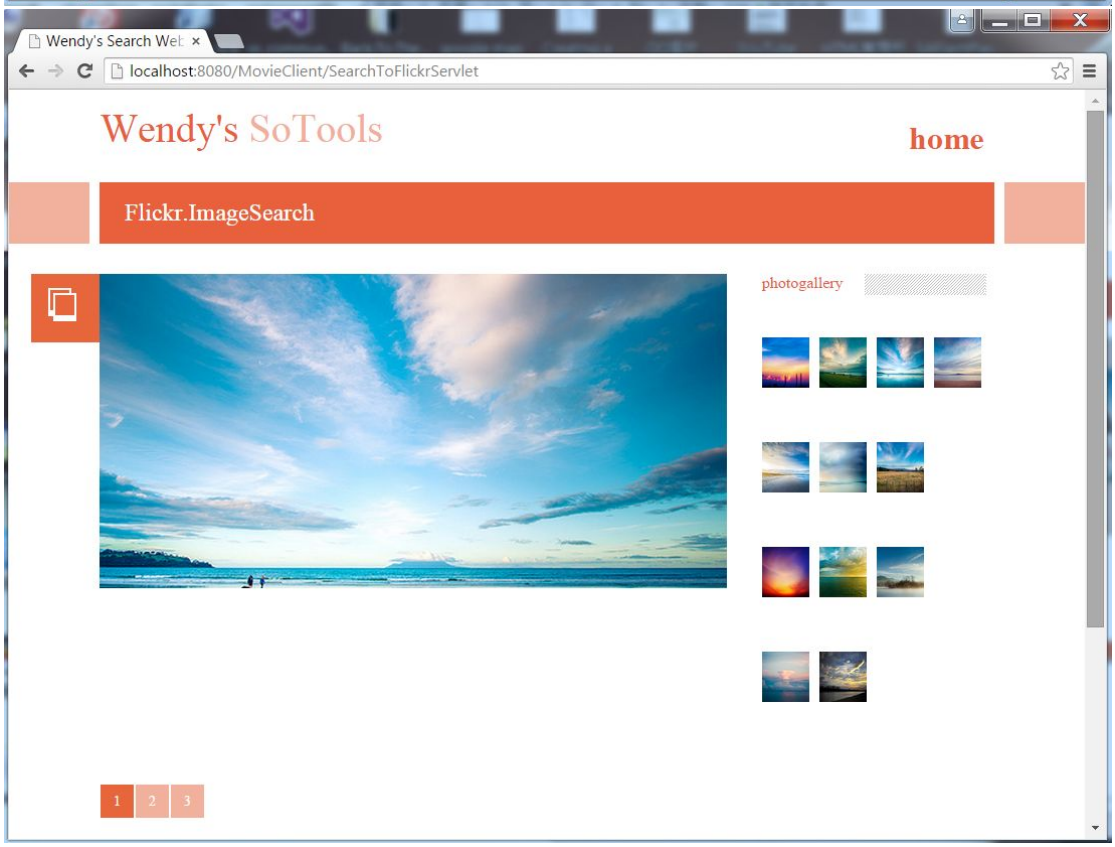
b) In the right part, there is a searchbox for us to search images and we can input a keyword like “sky” then submit it to get the result in another page. The another page in also a slider to show the pictures get from the Flickr and I create a gallerywall to post all the obtained images’ thumbnails in the right part to have a overlook.

c) In the foot of the page, there are three icon called 1,2,3. Click these three buttons, we can directly go into the flickrSearch.html, googleSearch.html and youTubeSearch.html respectively.

d) The “home” to get the home page.




Wendy's Search Wel
localhost:8080/MovieClient/flickrSearch.html
Wendy's SoTools
home
Flickr.MovieSearch
Your Walls, Your Way.
Transform your space by turning your Flickr photos into powerful works of art.
Get started
SearchBox
Please input your keywords from the box below and then submit your query.
Input
SUBMIT
1
2
3


Wendy's Search Wel
localhost:8080/MovieClient/SearchToFlickrServlet
Wendy's SoTools
home
Flickr.ImageSearch
photogallery
1
2
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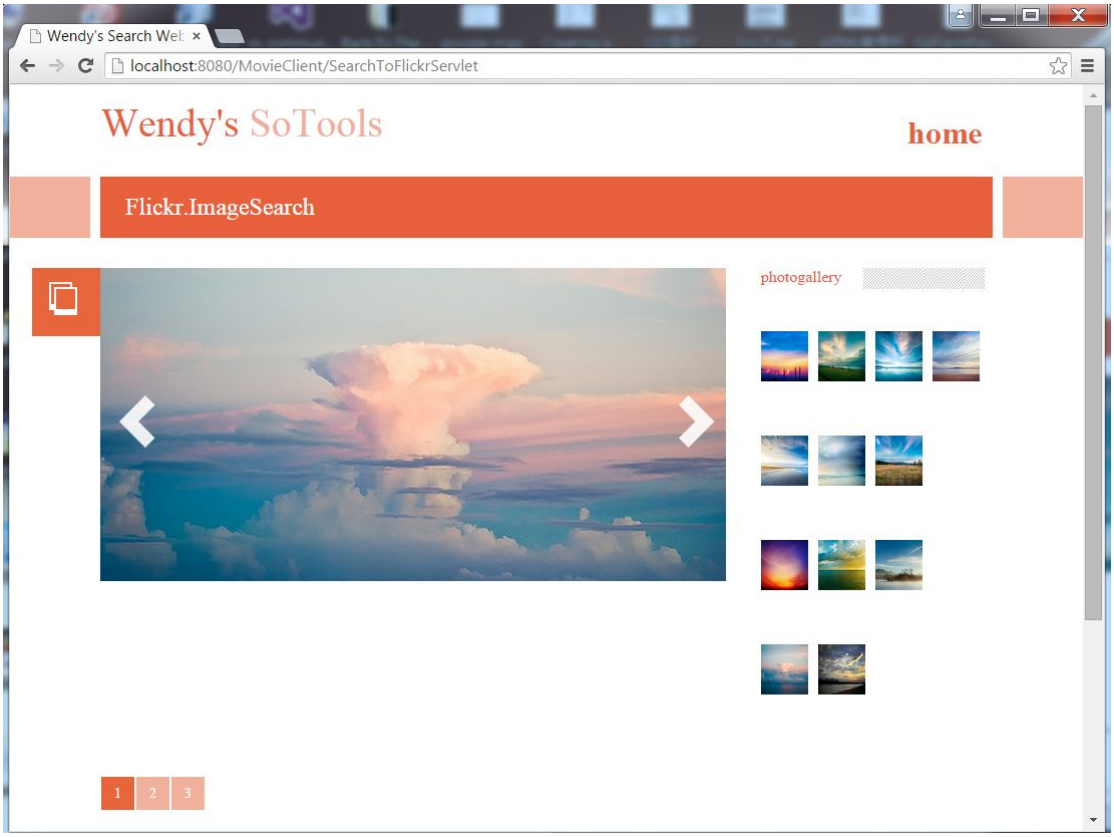
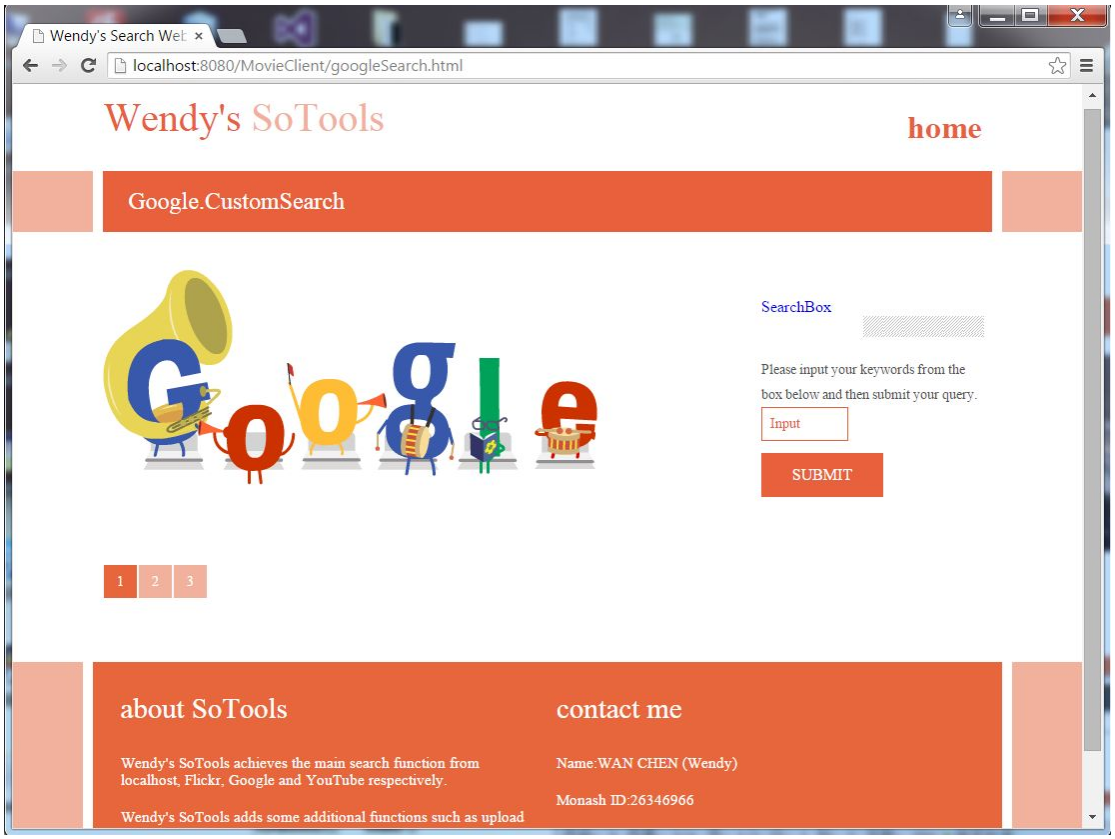
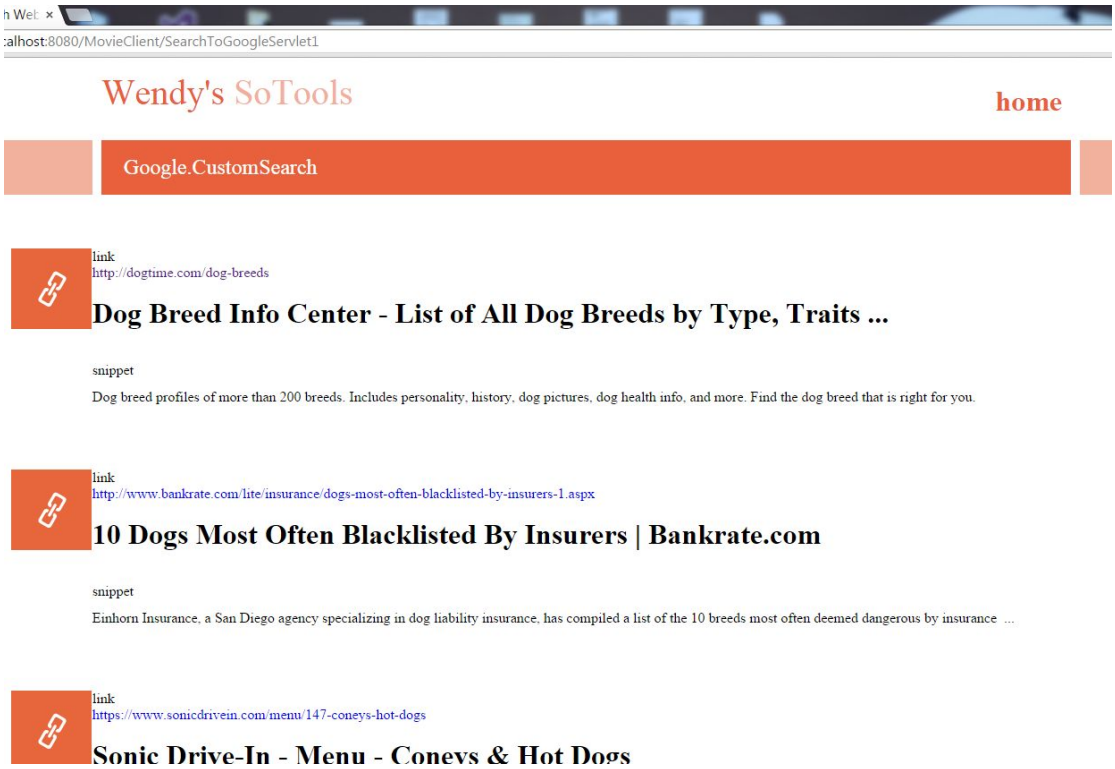


Into the googleSearch.html

http://localhost:8080/MovieClient/googleSearch.html page. It function is similar to Flickr search:

a) In the left part is a .gif image to show the difference between Flickr search.
b) Searchbox and footer “1,2,3” is similar to the Flickr search.
c) Search the keyword “dog” we can get the related title, smippet and link url. These url can be clicked into its actual address.

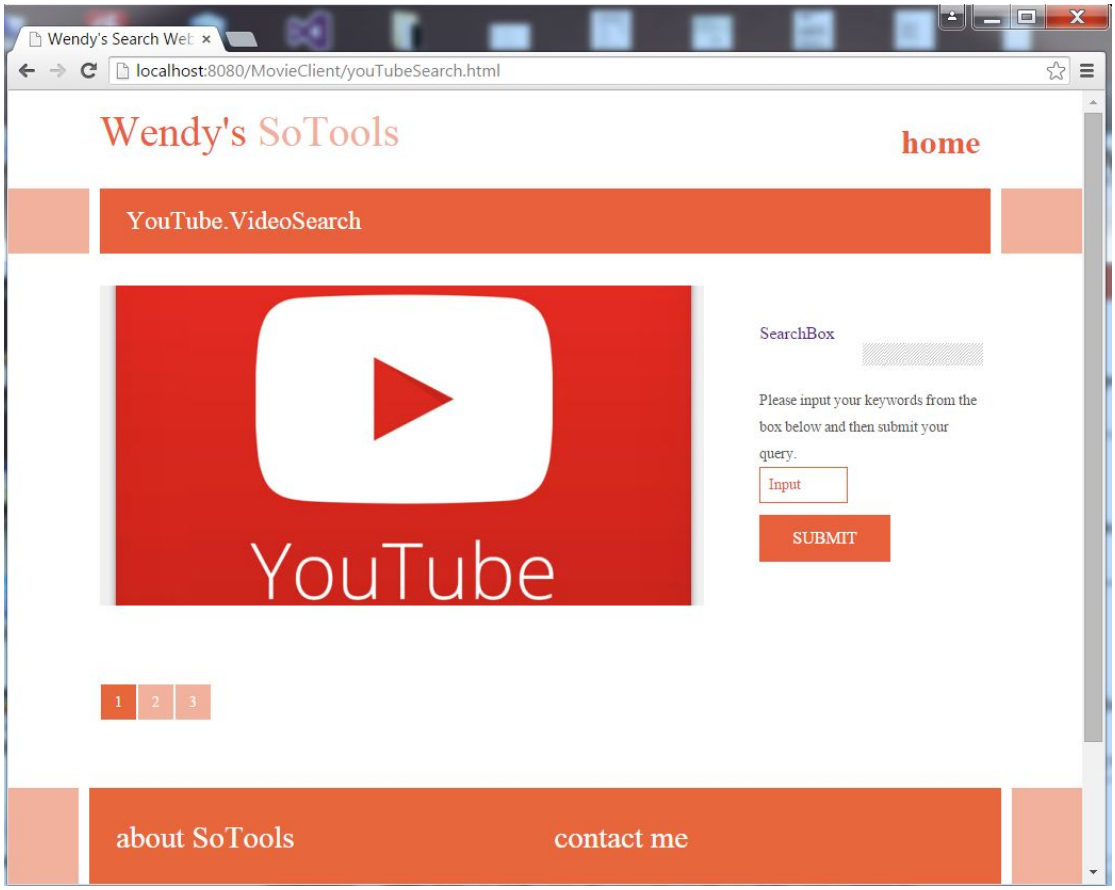


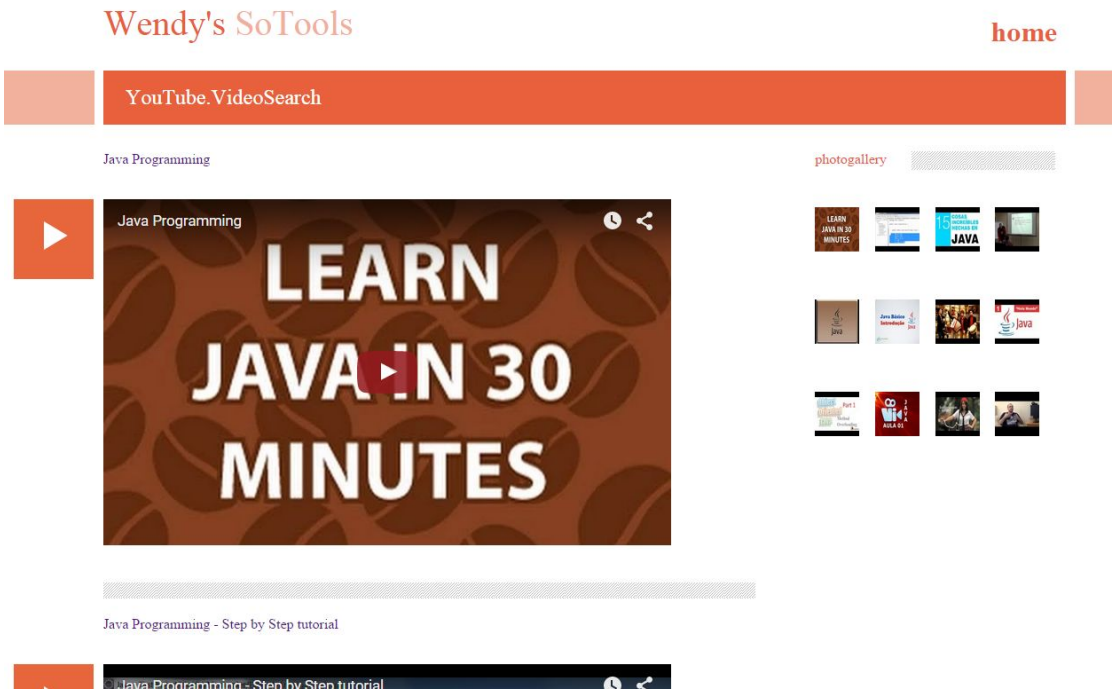


Into the youTubeSearch.html

http://localhost:8080/MovieClient/youTubeSearch.html. The function are also similar to the Flickr and Google search:

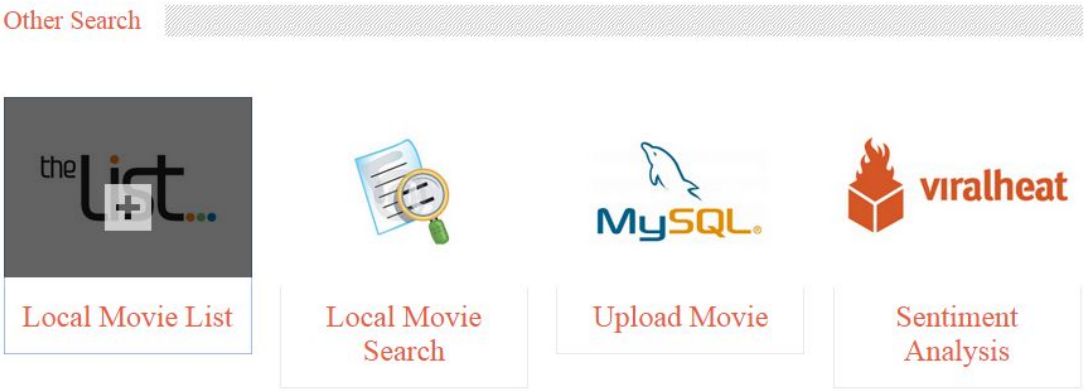
a) In the left, is a static image.
b) Searchbox and footer “1,2,3” is also similar to the Flickr search.
c) Search the keyword “java” and then go into the new pages to show video title and video below.
d) Also create a photogallery to show all the video’s thumbnails.

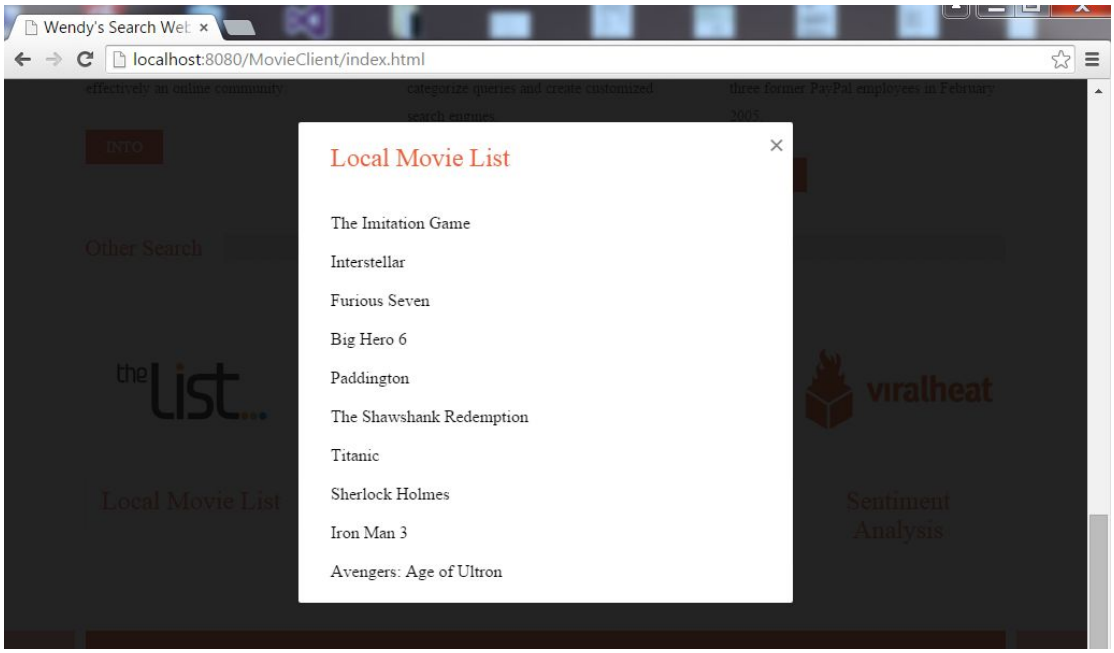




Into the local movie list

then see the flipLightbox float above the page





Into the local movie search

Input a keyword which you can seen in the local movie list or the home page slider show. Search the keyword “game” then get the two related movies which the name has the “game” keyword.

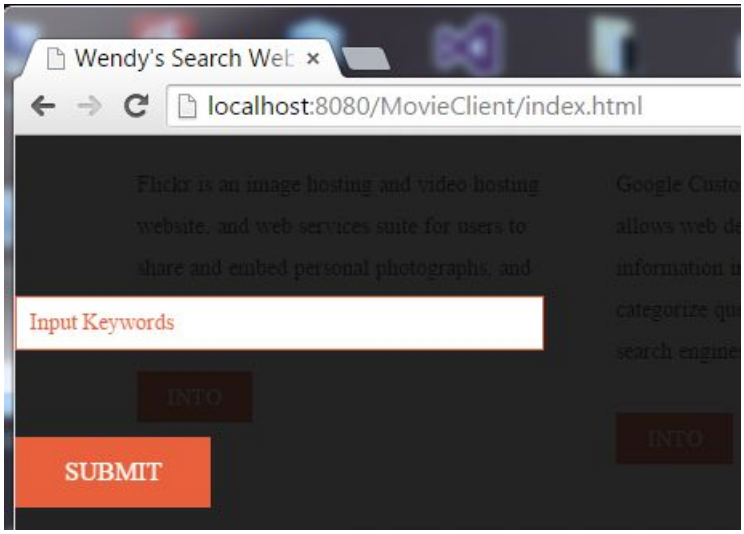
Other Search

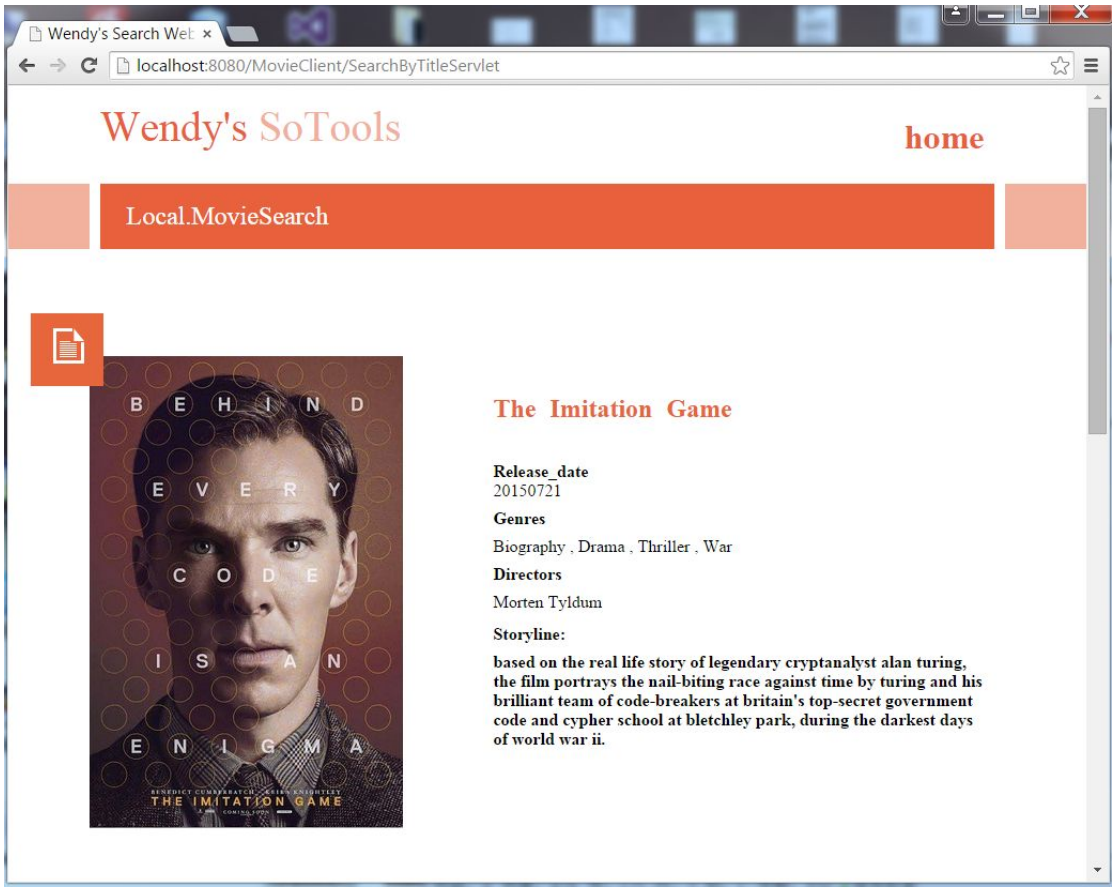
Local Movie List

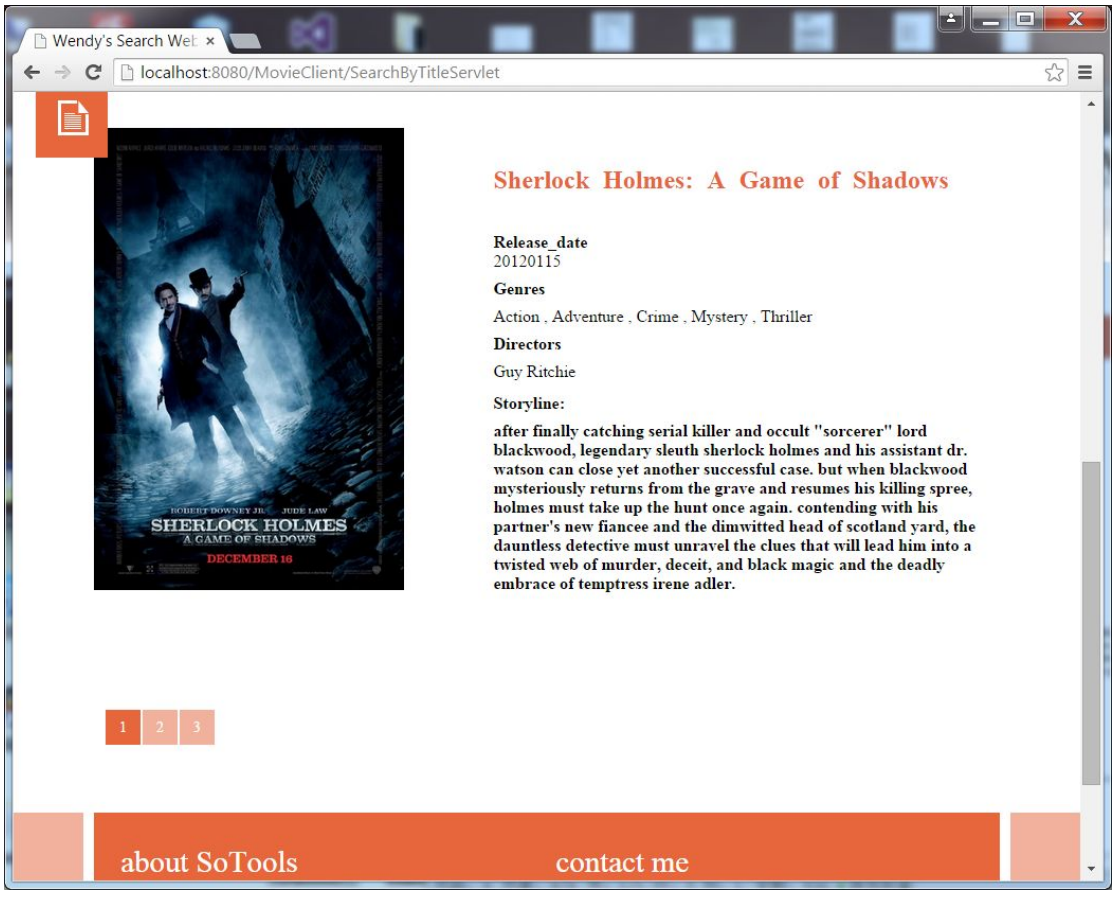
Local Movie Search

Upload Movie

Sentiment Analysis

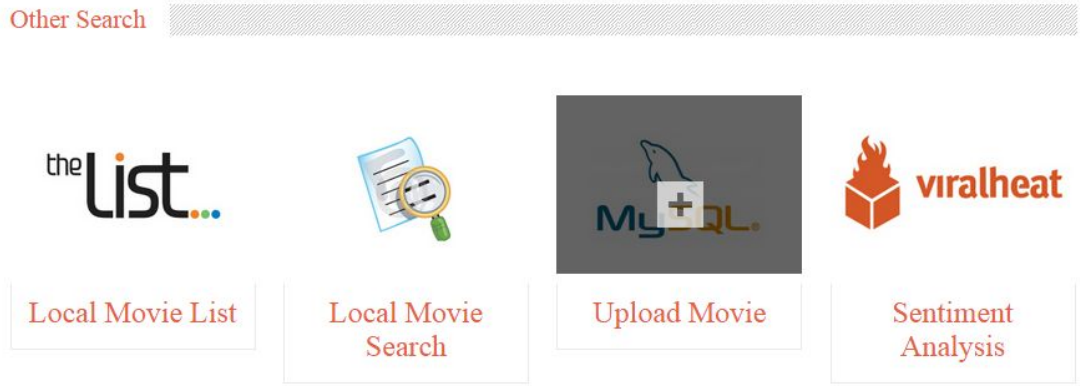


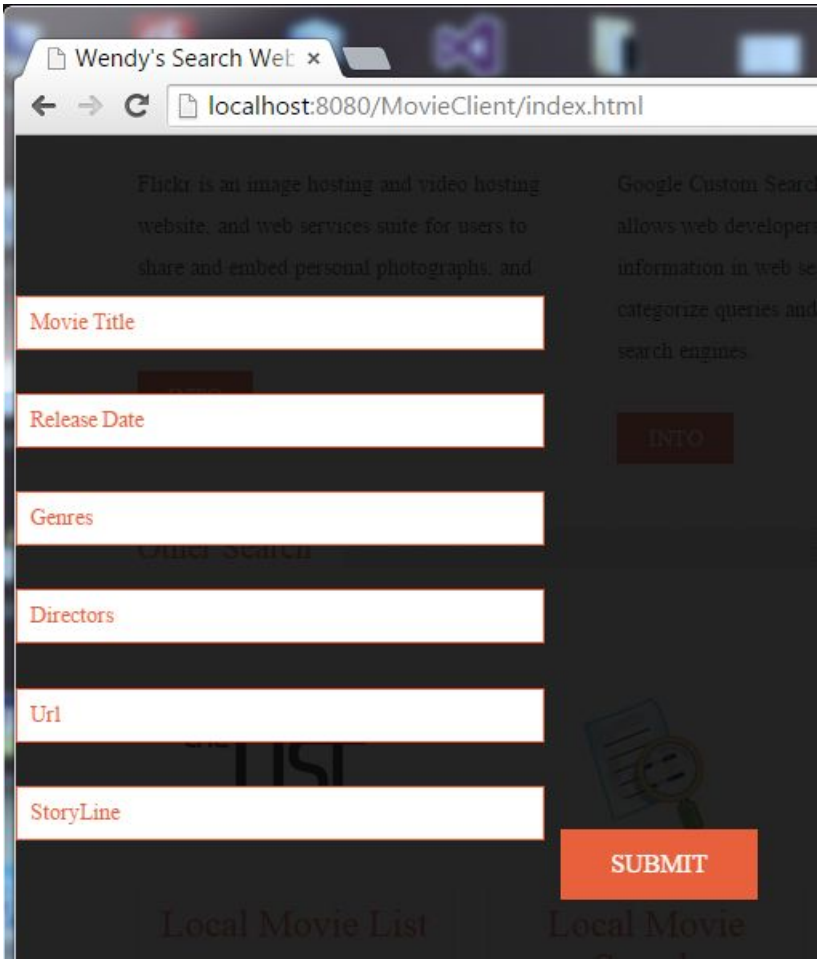

Wendy's Search Wel
localhost:8080/MovieClient/SearchByTitleServlet
Wendy's SoTools
home
Local.MovieSearch
The Imitation Game
Release_date
20150721
Genres
Biography , Drama , Thriller , War
Directors
Morten Tyldum
Storyline:
based on the real life story of legendary cryptanalyst alan turing, the film portrays the nail-biting race against time by turing and his brilliant team of code-breakers at britain's top-secret government code and cypher school at bletchley park, during the darkest days of world war ii.

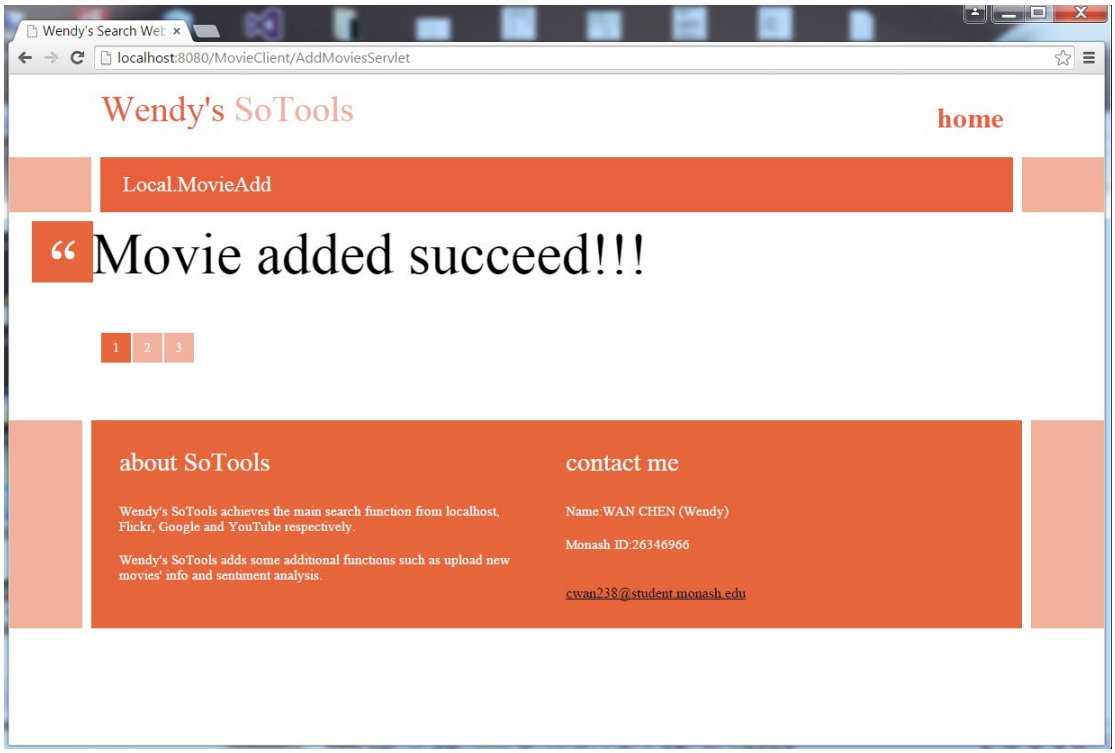

Wendy's Search Wel
localhost:8080/MovieClient/SearchByTitleServlet
Sherlock Holmes: A Game of Shadows
Release_date
20120115
Genres
Action , Adventure , Crime , Mystery , Thriller
Directors
Guy Ritchie
Storyline:
after finally catching serial killer and occult "sorcerer" lord blackwood, legendary sleuth sherlock holmes and his assistant dr. watson can close yet another successful case. but when blackwood mysteriously returns from the grave and resumes his killing spree, holmes must take up the hunt once again. contending with his partner's new fiancee and the dimwitted head of scotland yard, the dauntless detective must unravel the clues that will lead him into a twisted web of murder, deceit, and black magic and the deadly embrace of temptress irene adler.
1
2
3
about SoTools
contact me

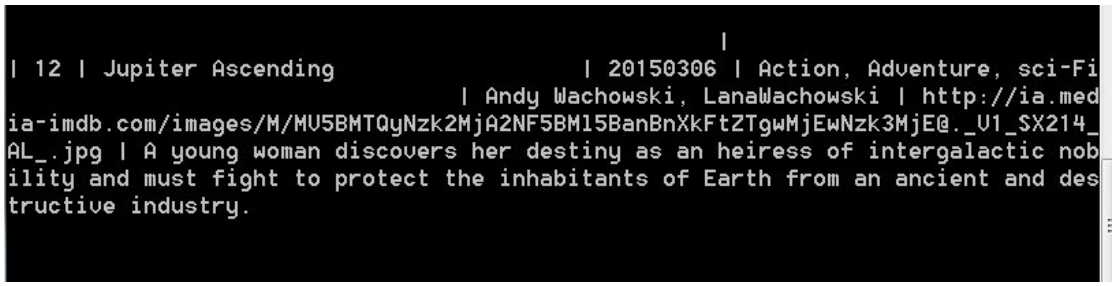
Into the upload movie

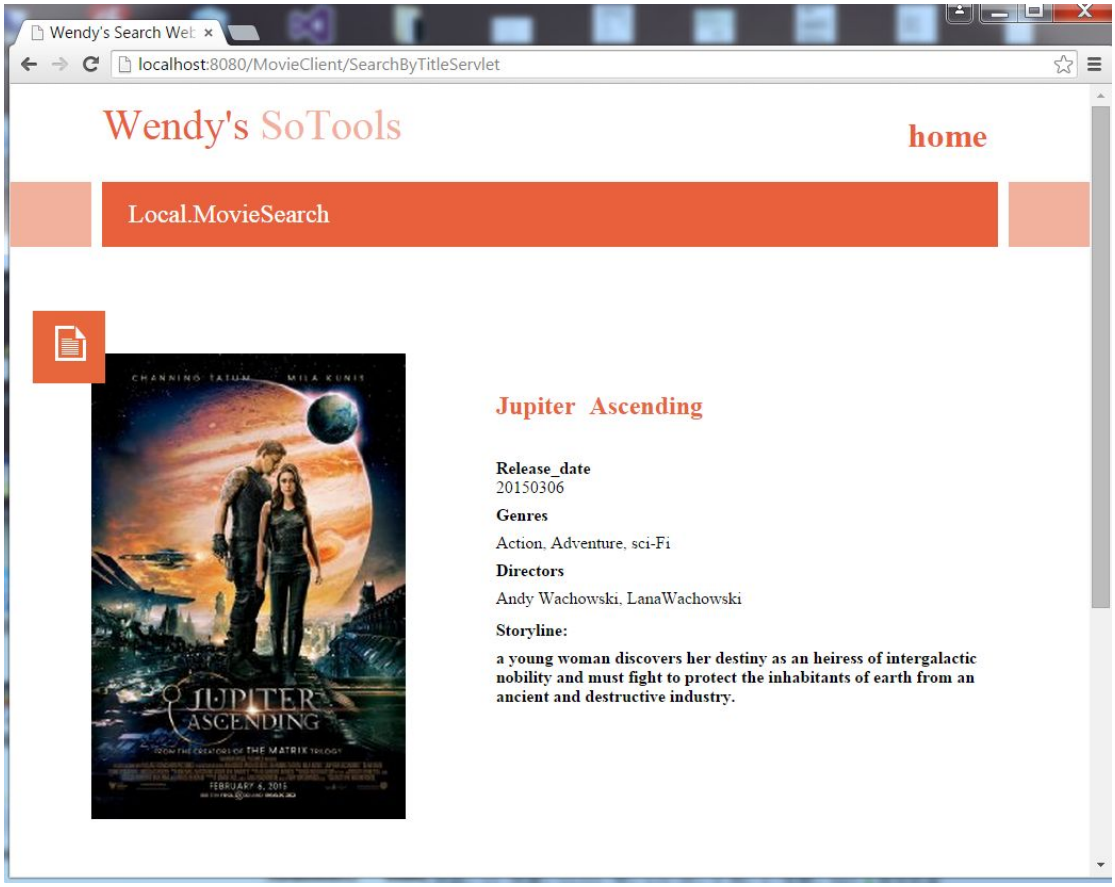
Put some information and submit it into the database, then the successful information can be shown in new page. For instance, insert series of data into the submit form and then we can check the database for this new information, also, we can see it in the local movie search.





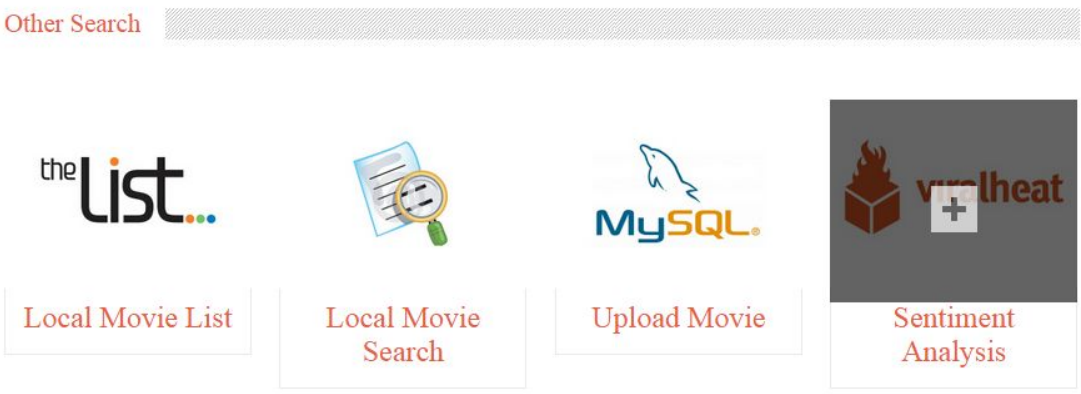

Wendy's Search Wel
localhost:8080/MovieClient/AddMoviesServlet
Wendy's SoTools
home
Local.MovieAdd
Movie added succeed!!!
1
2
3
about SoTools
Wendy's SoTools achieves the main search function from localhost, Flickr, Google and YouTube respectively.
Wendy's SoTools adds some additional functions such as upload new movies' info and sentiment analysis.
contact me
Name:WAN CHEN (Wendy)
Monash ID:26346966
cwan238@student.monash.edu

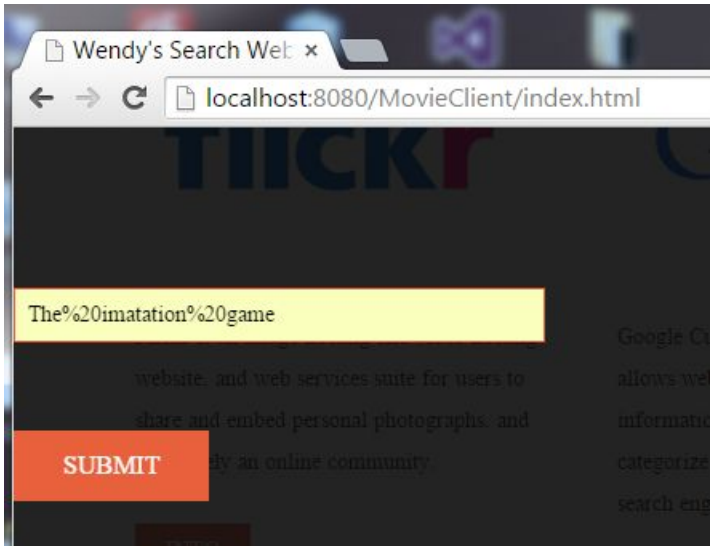

|
| 12 | Jupiter Ascending | 20150306 | Action, Adventure, sci-Fi
| Andy Wachowski, LanaWachowski | http://ia.media-imdb.com/images/M/MV5BMTQyNzk2MjA2NF5BM15BanBnXkFtZTgwMjEwNzk3MjE@._V1_SX214_AL_.jpg | A young woman discovers her destiny as an heiress of intergalactic nobility and must fight to protect the inhabitants of Earth from an ancient and destructive industry.

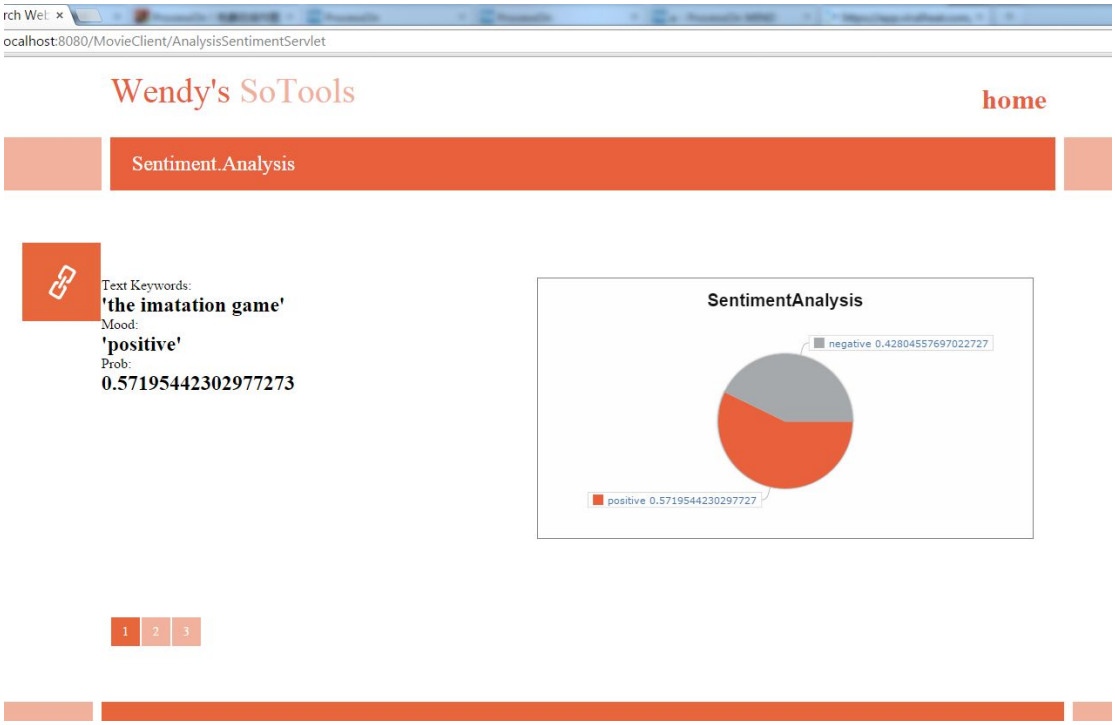


Into the sentiment analysis

Input a keyword then get the corresponding attitudes. One should be attention is the movie name with space should be replaced with "%20".




Wendy's Search Wel ×
localhost:8080/MovieClient/index.html
The%20imatation%20game
SUBMIT


rch Wel ×
ocalhost:8080/MovieClient/AnalysisSentimentServlet
Wendy's SoTools
home
Sentiment.Analysis
Text Keywords:
'the imatation game'
Mood:
'positive'
Prob:
0.57195442302977273
SentimentAnalysis
negative 0.42804557697022727
positive 0.5719544230297727
1
2
3