



AIT

PHONEGAP/ JQUERY MOBILE PROJECT



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Project Outline

PhoneGap/jQuery Mobile project of your choosing incorporating a jQuery Ajax call to some public service/API.

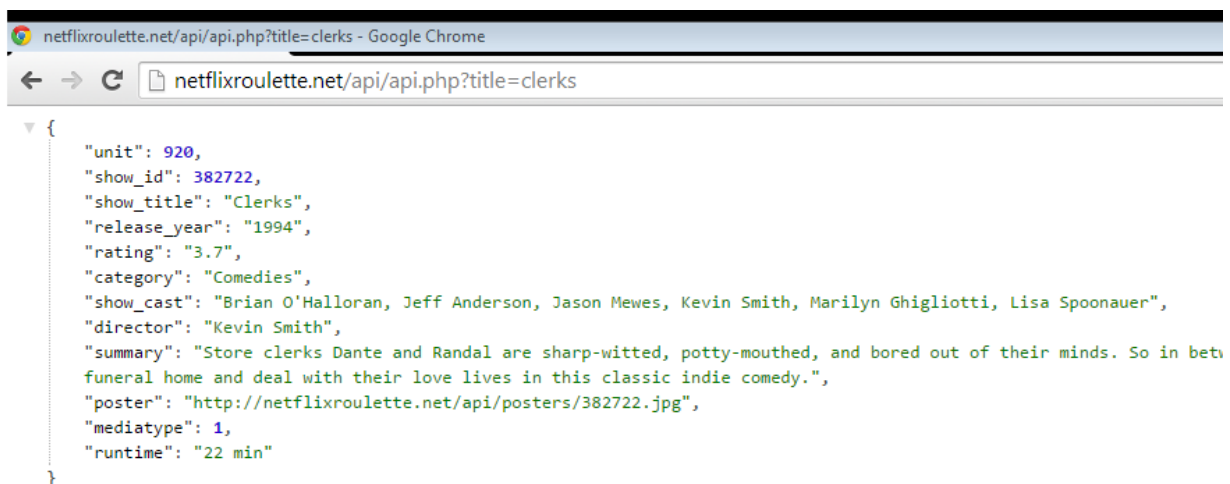
Chosen API

The API that I chose was called Netflix roulette. The Netflix roulette API giving developers access to the Netflix Roulette Database so you can search for movies as you wish. The Netflix Roulett can be found at <http://netflixroulette.net/API/>.

These are the following screen shots showing the API working in a browser

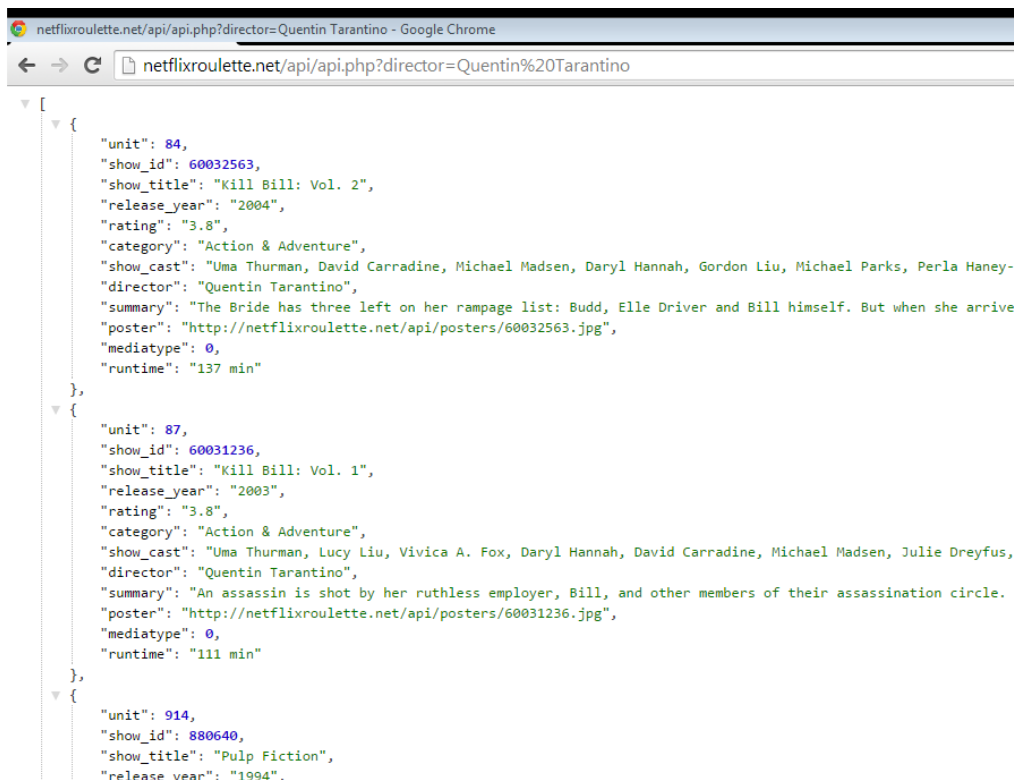
To search for the title (search by title) of a movie use the following url:

<http://netflixroulette.net/API/API.php?title=clerks>



To search for the films a director (search by director) directed use the following url which give back multiple results in this case

<http://netflixroulette.net/API/API.php?director=Quentin%20Tarantino>

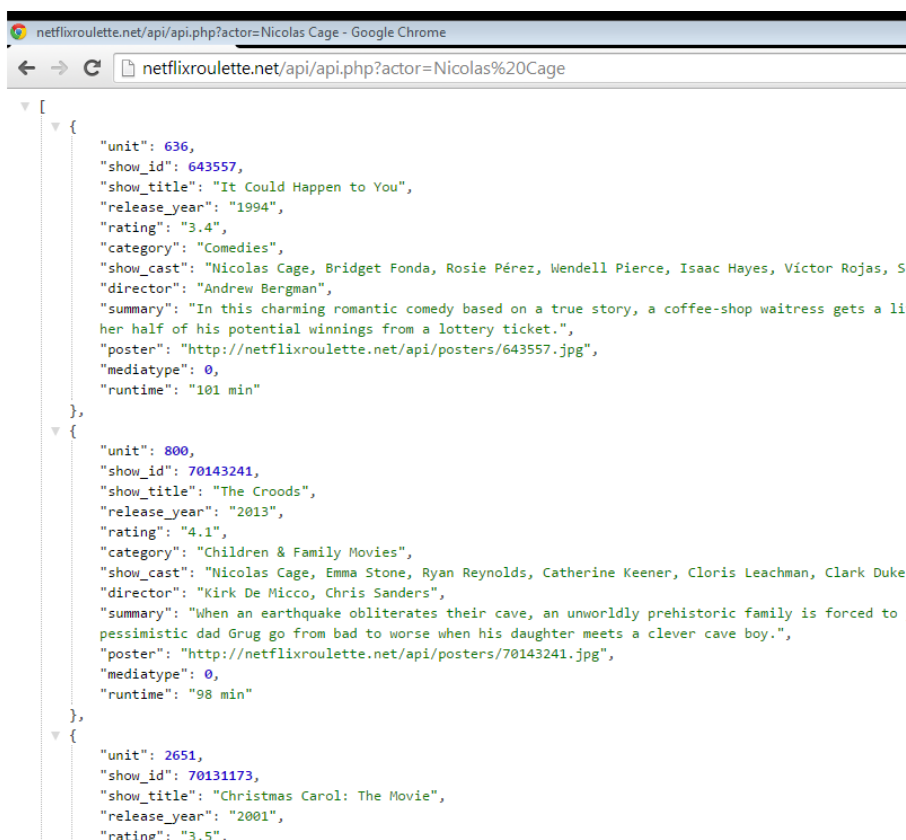


The screenshot shows a Google Chrome browser window with the address bar displaying `netflixroulette.net/api/api.php?director=Quentin Tarantino`. The page content is a JSON array of movie objects. The first object is for 'Kill Bill: Vol. 2' (show_id: 60032563), and the second is for 'Kill Bill: Vol. 1' (show_id: 60031236). Both are directed by Quentin Tarantino. The third object is for 'Pulp Fiction' (show_id: 880640), which is also directed by Quentin Tarantino. The JSON structure is as follows:

```
[
  {
    "unit": 84,
    "show_id": 60032563,
    "show_title": "Kill Bill: Vol. 2",
    "release_year": "2004",
    "rating": "3.8",
    "category": "Action & Adventure",
    "show_cast": "Uma Thurman, David Carradine, Michael Madsen, Daryl Hannah, Gordon Liu, Michael Parks, Perla Haney-
    "director": "Quentin Tarantino",
    "summary": "The Bride has three left on her rampage list: Budd, Elle Driver and Bill himself. But when she arrive
    "poster": "http://netflixroulette.net/api/posters/60032563.jpg",
    "mediatype": 0,
    "runtime": "137 min"
  },
  {
    "unit": 87,
    "show_id": 60031236,
    "show_title": "Kill Bill: Vol. 1",
    "release_year": "2003",
    "rating": "3.8",
    "category": "Action & Adventure",
    "show_cast": "Uma Thurman, Lucy Liu, Vivica A. Fox, Daryl Hannah, David Carradine, Michael Madsen, Julie Dreyfus,
    "director": "Quentin Tarantino",
    "summary": "An assassin is shot by her ruthless employer, Bill, and other members of their assassination circle.
    "poster": "http://netflixroulette.net/api/posters/60031236.jpg",
    "mediatype": 0,
    "runtime": "111 min"
  },
  {
    "unit": 914,
    "show_id": 880640,
    "show_title": "Pulp Fiction",
    "release year": "1994".
  }
]
```

To search for an actor (search by actor) you can use the following url.

<http://netflixroulette.net/API/API.php?actor=Nicolas%20Cage>



The screenshot shows a Google Chrome browser window with the address bar displaying `netflixroulette.net/api/api.php?actor=Nicolas Cage`. The page content is a JSON array of movie objects. The first object is for 'It Could Happen to You' (show_id: 643557), directed by Andrew Bergman. The second object is for 'The Croods' (show_id: 70143241), directed by Kirk De Micco and Chris Sanders. The third object is for 'Christmas Carol: The Movie' (show_id: 70131173), with a rating of 3.5. The JSON structure is as follows:

```
[
  {
    "unit": 636,
    "show_id": 643557,
    "show_title": "It Could Happen to You",
    "release_year": "1994",
    "rating": "3.4",
    "category": "Comedies",
    "show_cast": "Nicolas Cage, Bridget Fonda, Rosie Pérez, Wendell Pierce, Isaac Hayes, Víctor Rojas, S
    "director": "Andrew Bergman",
    "summary": "In this charming romantic comedy based on a true story, a coffee-shop waitress gets a li
    her half of his potential winnings from a lottery ticket.",
    "poster": "http://netflixroulette.net/api/posters/643557.jpg",
    "mediatype": 0,
    "runtime": "101 min"
  },
  {
    "unit": 800,
    "show_id": 70143241,
    "show_title": "The Croods",
    "release_year": "2013",
    "rating": "4.1",
    "category": "Children & Family Movies",
    "show_cast": "Nicolas Cage, Emma Stone, Ryan Reynolds, Catherine Keener, Cloris Leachman, Clark Duke
    "director": "Kirk De Micco, Chris Sanders",
    "summary": "When an earthquake obliterates their cave, an unworldly prehistoric family is forced to
    pessimistic dad Grug go from bad to worse when his daughter meets a clever cave boy.",
    "poster": "http://netflixroulette.net/api/posters/70143241.jpg",
    "mediatype": 0,
    "runtime": "98 min"
  },
  {
    "unit": 2651,
    "show_id": 70131173,
    "show_title": "Christmas Carol: The Movie",
    "release_year": "2001",
    "ratine": "3.5".
  }
]
```

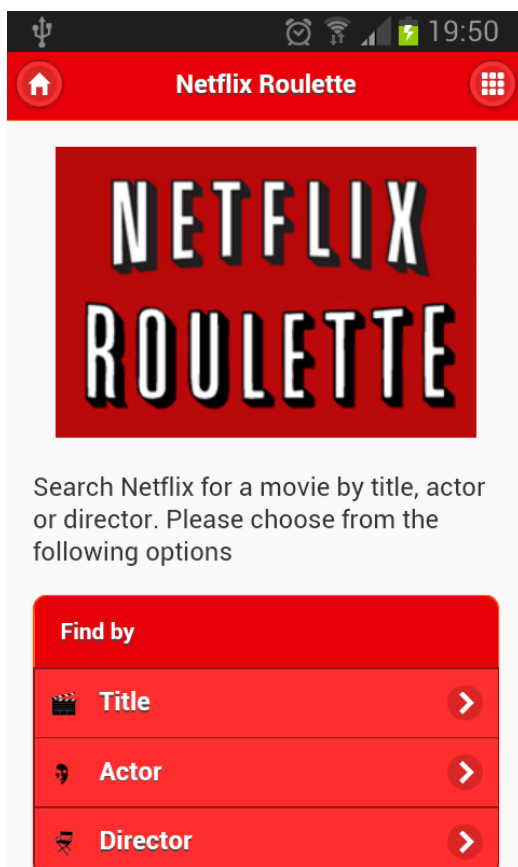
Screen Shots

The following are screen shots form my Netflix Roulette PhoneGap App.

Home Screen

The home button uses a theme that I installed from <http://themeroller.jquerymobile.com/>. This also required me to change the build in JQuery mobile from 1.7 to 1.11.

The home button (top left) appears on every screen and brings the user back to the home screen. The home screen uses reverse transitions from the left to right. While all other pages go right to left.

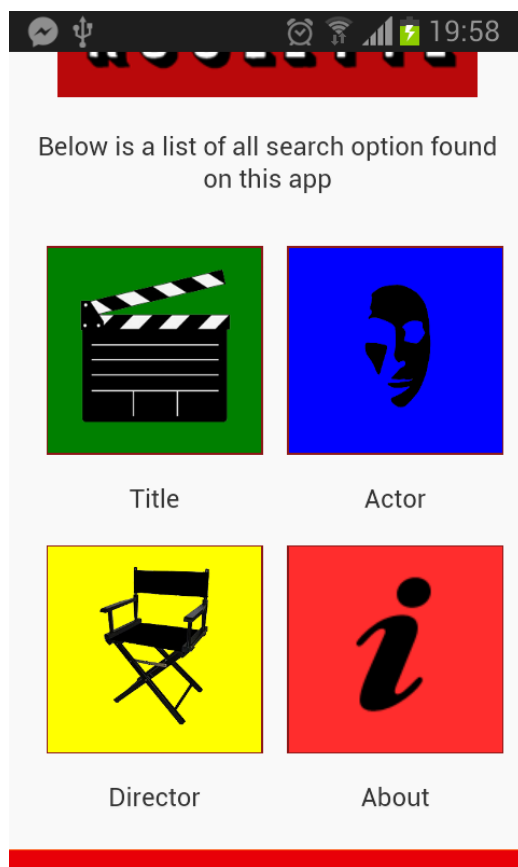


Options Screen

The options screen (top right) shows what options are available to the user.

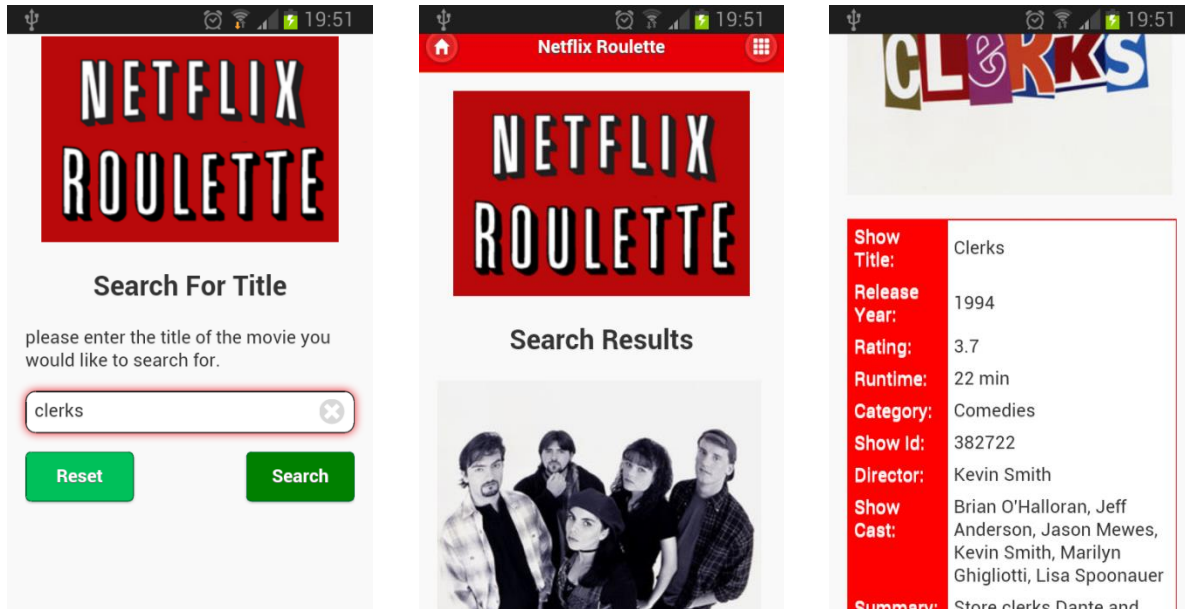
The options screen is on every screen and transitions from down the screen.

When you press the button to go to the respective page using a pop transaction.



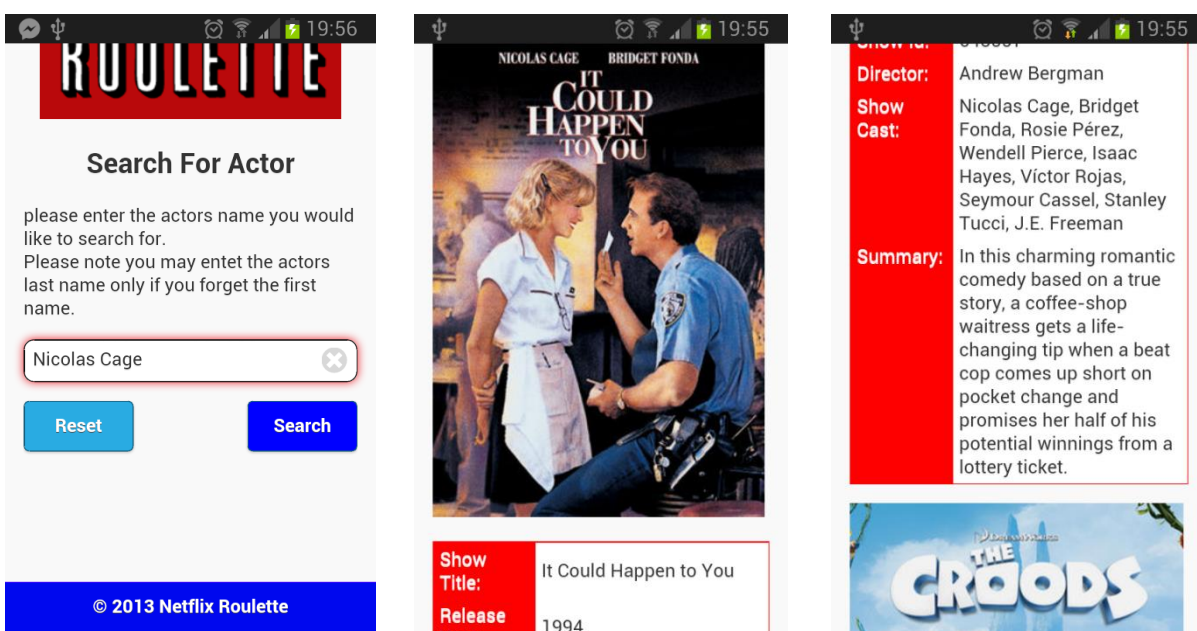
Search for Title

Here we are searching for the title “clerks”. We type in the word “clerks” and the result is returned and then I parse it and put it out to screen. These are the same results as shown in the API section above. Each section in the app has a different theme and colouring. The Search Results is the same search results screen for all searches.



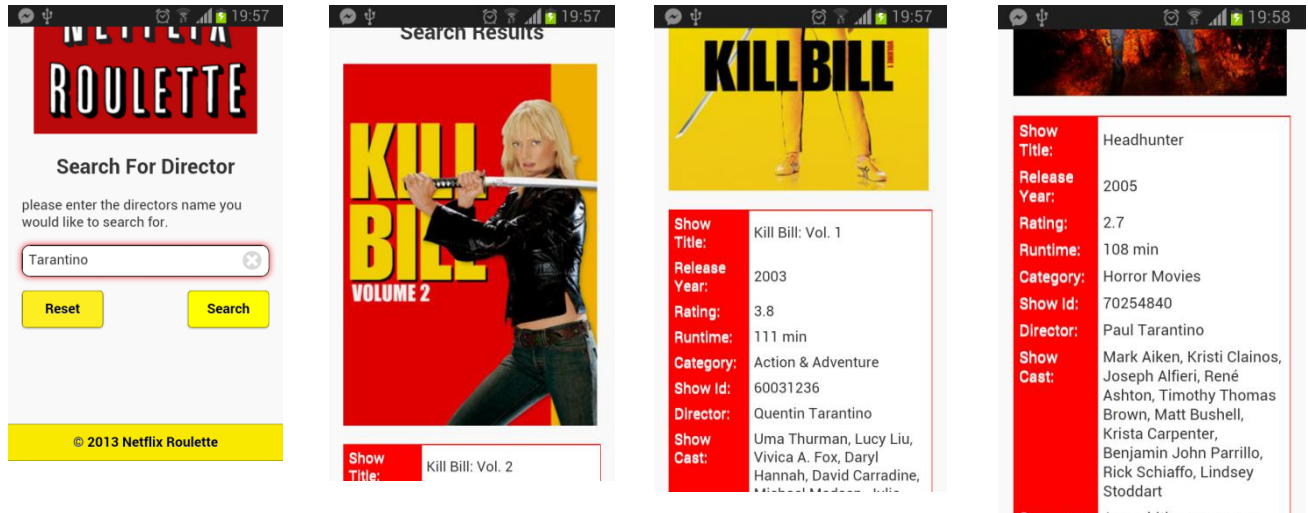
Search for Actor

As we can see there is a different theme being used on each section. The results shown for “Nicolas Cage” as the same as the results shown in the API section above. There is more than one result shown here but I have not shown all the result due to the amount of screen shots this may take.



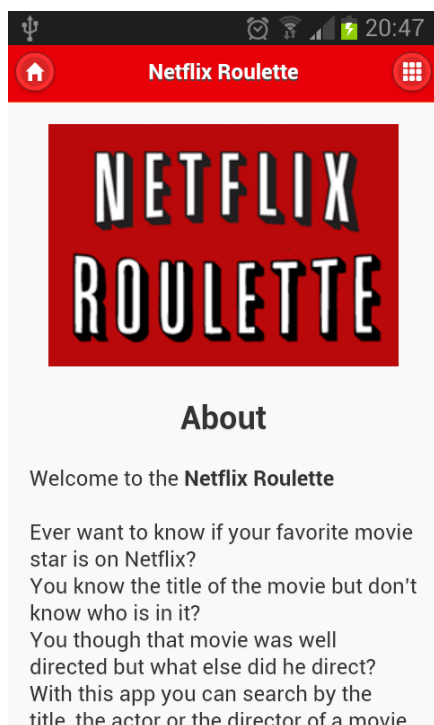
Search for Director

As you can see from the screenshots below the results differ from the results shown in the API above. The reason for this is because I chose to search for “Tarantino” and not “Quentin Tarantino”. This search brought back all the directors that have “Tarantino” in their name. This could have also been done for the actors last name. I could have search for “Cruise” and got back Tom, Penelope etc.



About Screen

The about screen describes to the user what the app all about.



Exit Screen

Here is an exit screen that exits the app. This appears when the user is on the home screen and presses the back arrow on their mobile device.



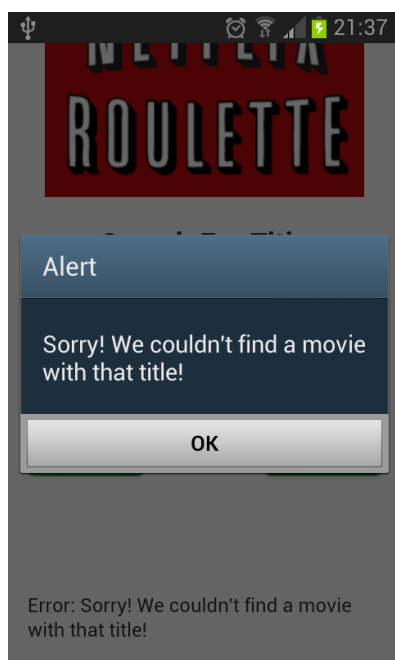
Error Checking

All errors trigger a beep on the phone and trigger the phone to vibrate and show an alert message to the user. This was made using the following code.

```
responseText = "Sorry! We couldn't find a movie with that title!";
navigator.notification.vibrate(2000);
var alert_title = "Error Message";
var buttonName = "Alert";
navigator.notification.alert(responseText, alert_title, buttonName);
navigator.notification.beep(1);
```

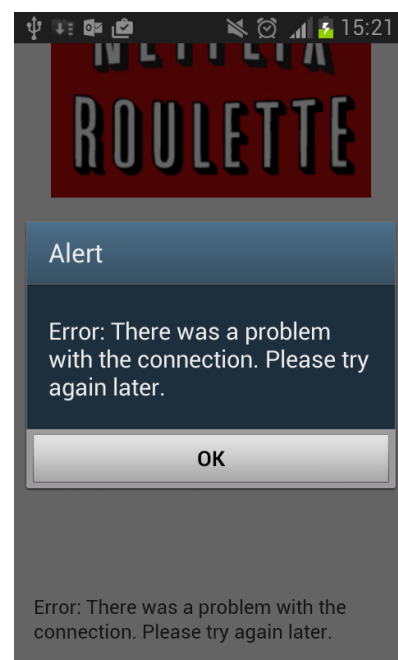
Search not present

The following shows the error message to the user if the search phrase that they are searching for is not present in the database.



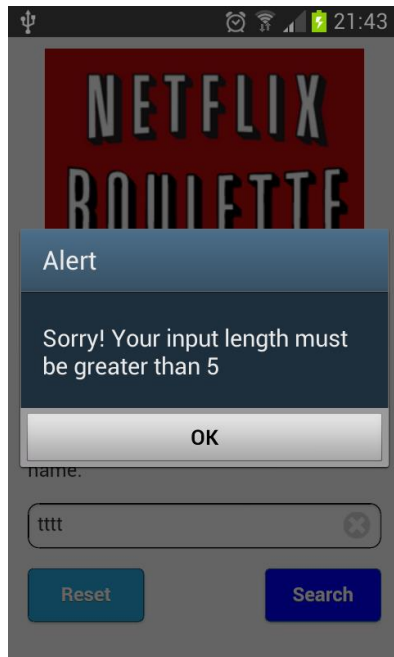
No Connection

If the user is not connected to Wi-Fi or mobile broadband the following message will appear.



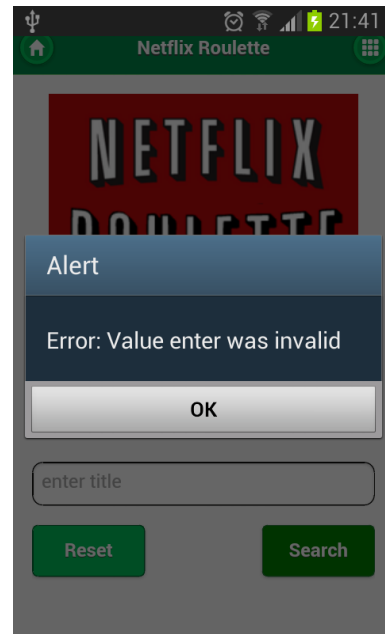
Search Text Length Invalid

The search text length must be more than 5 characters for the actor and the director searches.



Invalid Entry

The following shows the error for invalid entry i.e. the user pressed search with an empty input field.



Video Link

Please follow the link below to view a video of the app working. Please note In the video the app was ran on the Android emulator and can be a little jumpy.

<https://www.youtube.com/watch?v=9-w0zgxhO0c>

Conclusion

I feel I have met the project outline. I have incorporated jQuery and Ajax calls to the Netflix Roulette API into a PhoneGap app and have got it working on my phone, an emulator and on a browser. I have also incorporated error checking and used the phones notifications to alert the user to errors. I have also used one method in my javascript code to make 3 calls (AJax call) to the API. This method is "getNetflixDate(category,text)" which takes in the category (title, actor or director) to search for and the text being searched.

Please find a copy of my file in this zip file.

Thanking You

Rory Nee – A00190040