Lab Assignment-3

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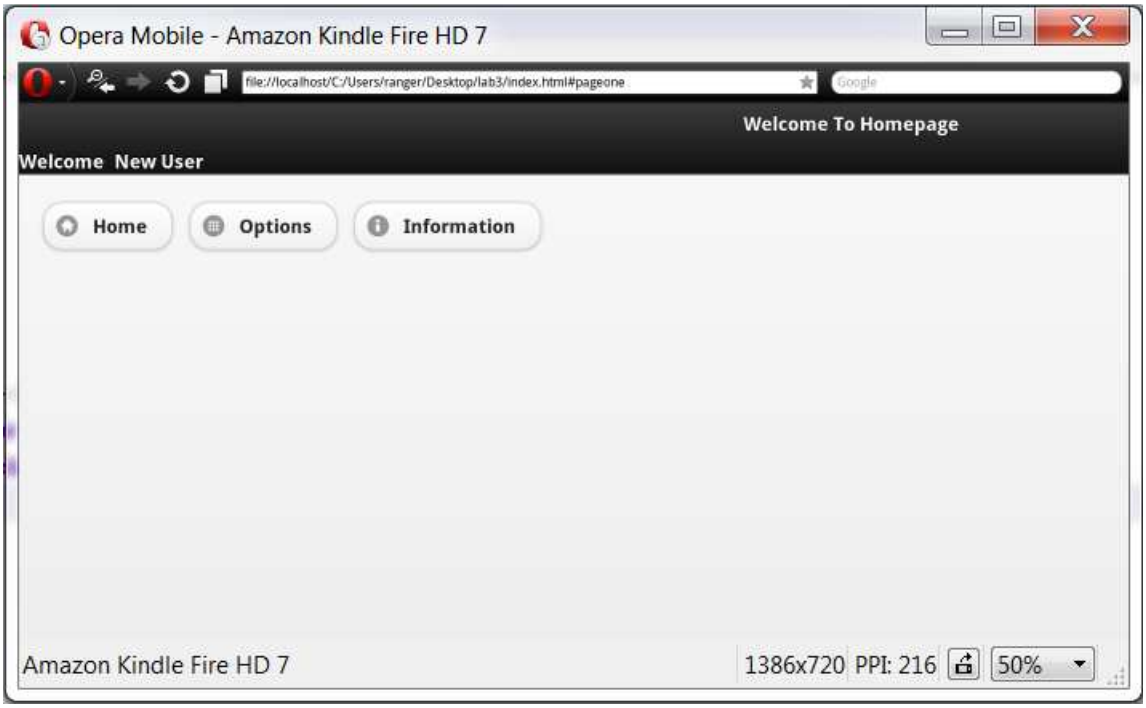
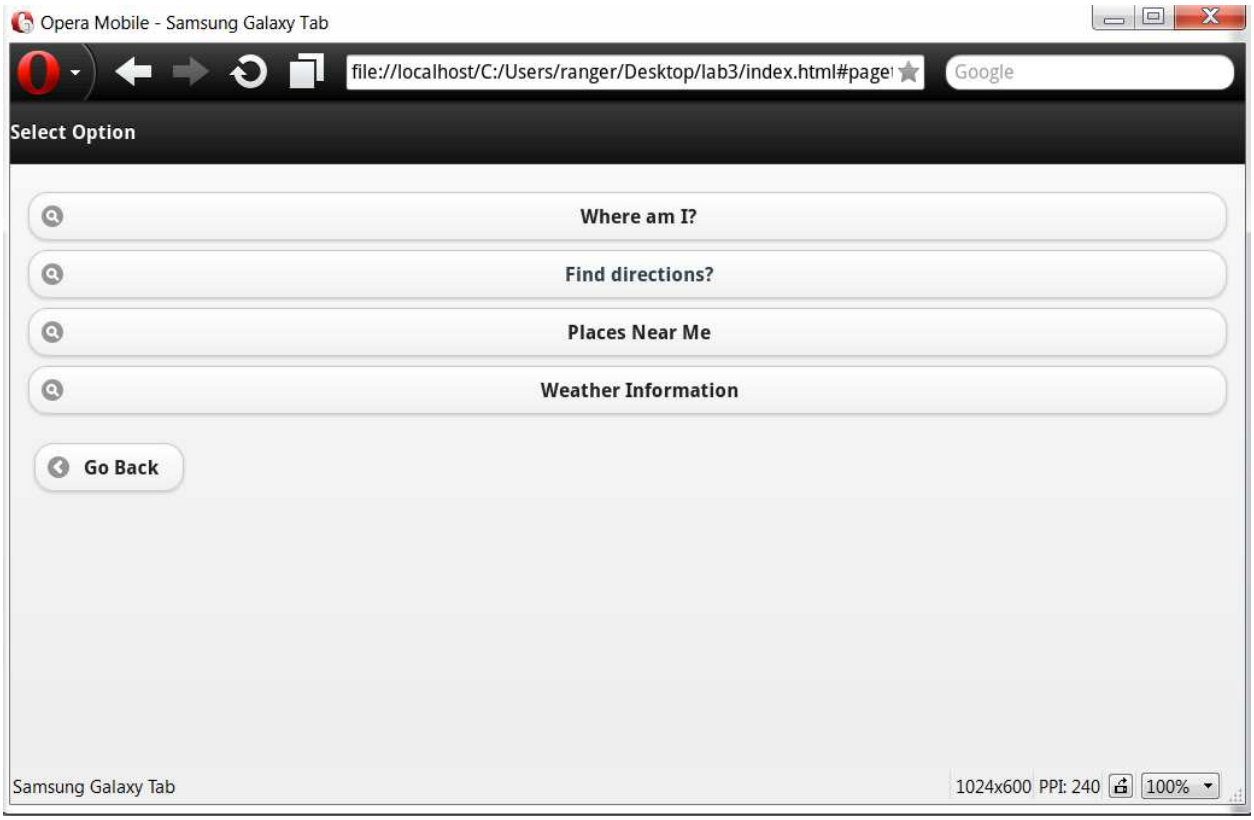
Q1 Extend the Mobile Web Client Application you implemented in Lab 2 **with HTML5 Local Database**

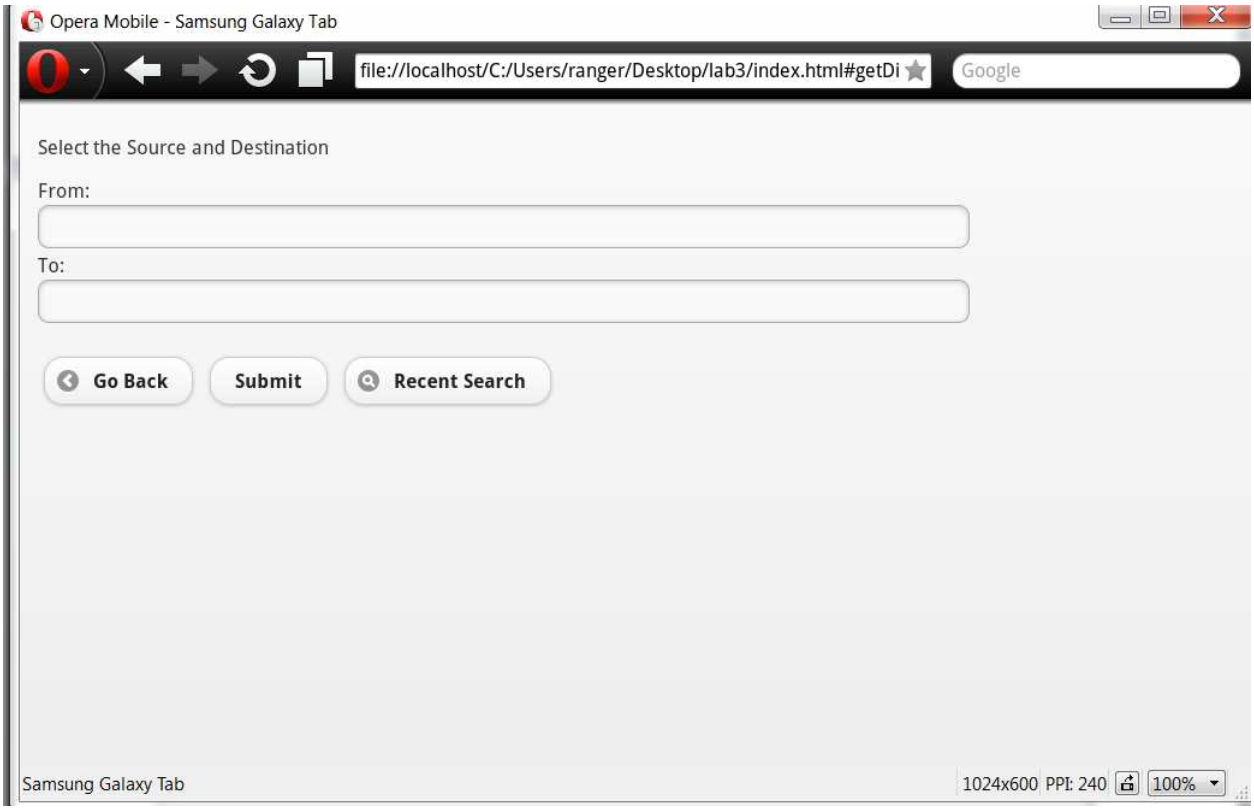
Below is the Mobile Web Client welcome screen. The local database has been implemented with the direction service to view the most recent selection.



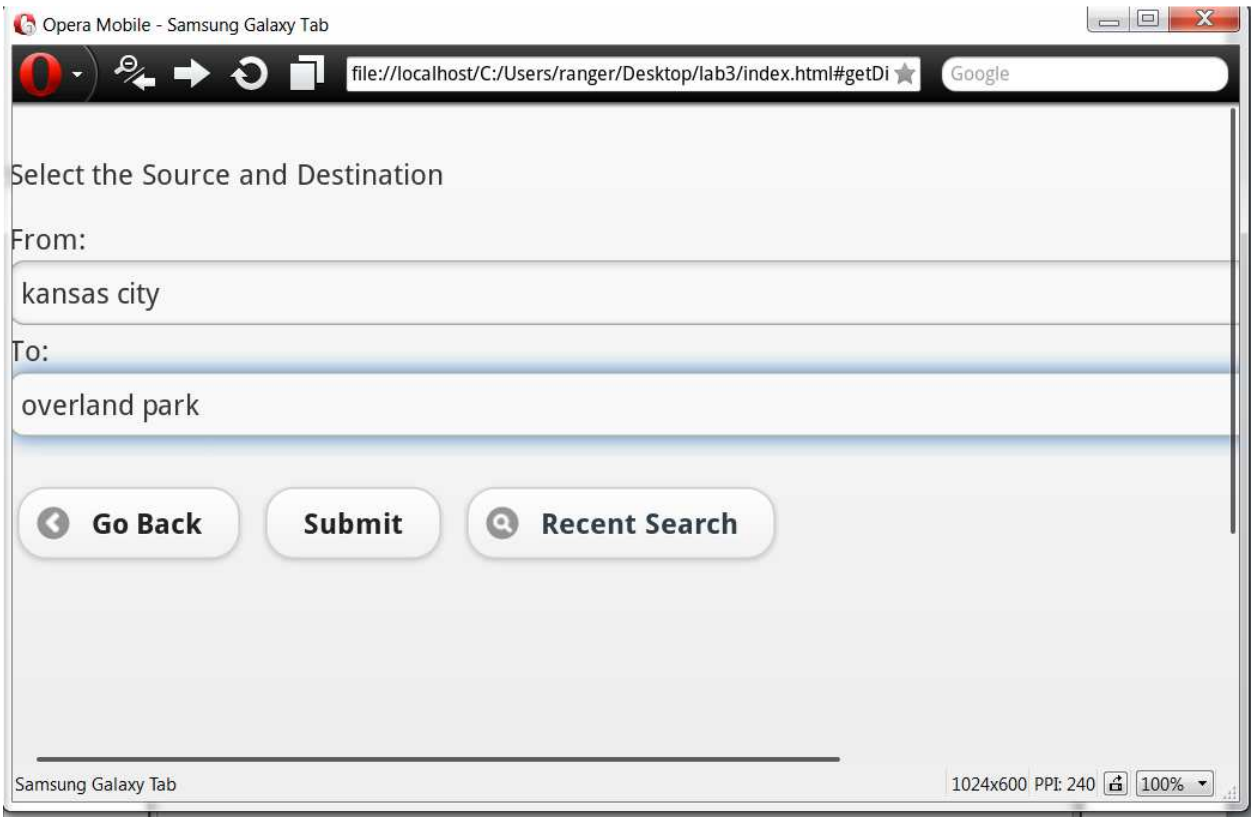
User Clicks on Options and then find direction for the google direction service.



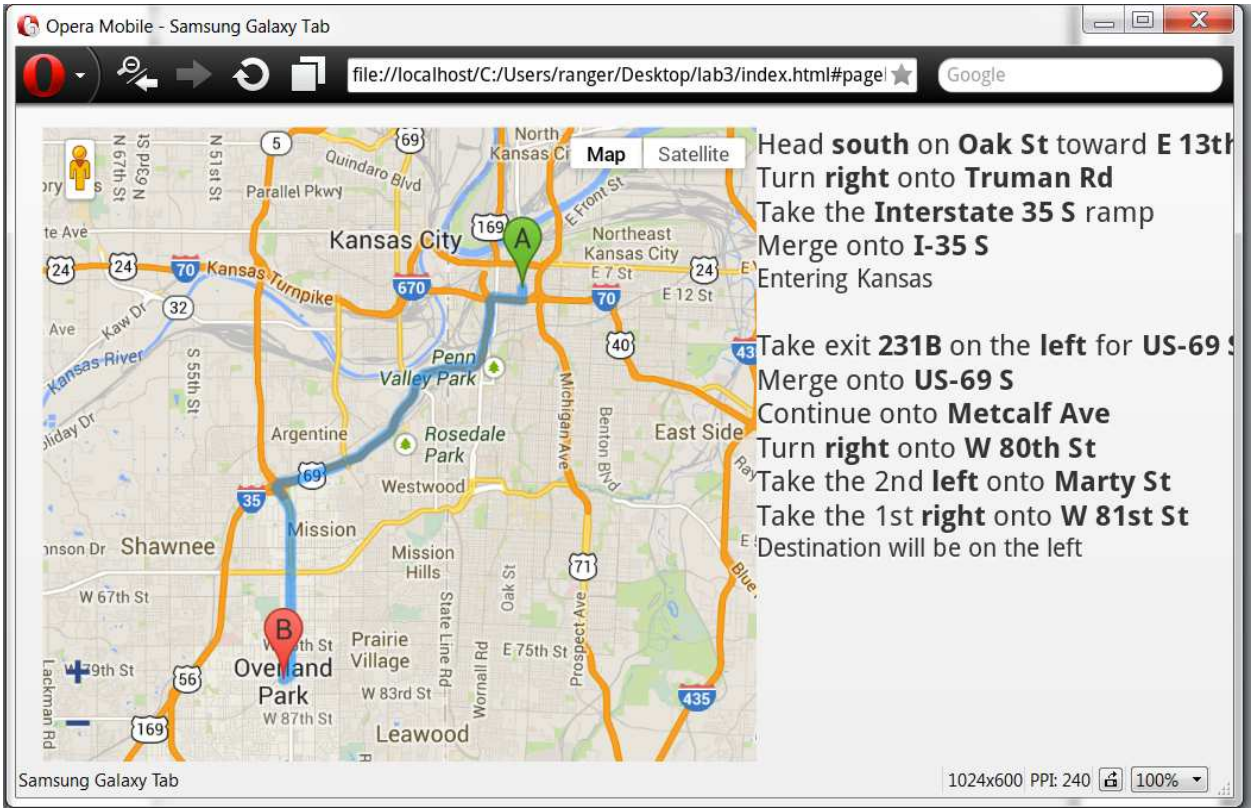
The Recent Search button keeps track of the most recent direction search along with the time stamp of the search.



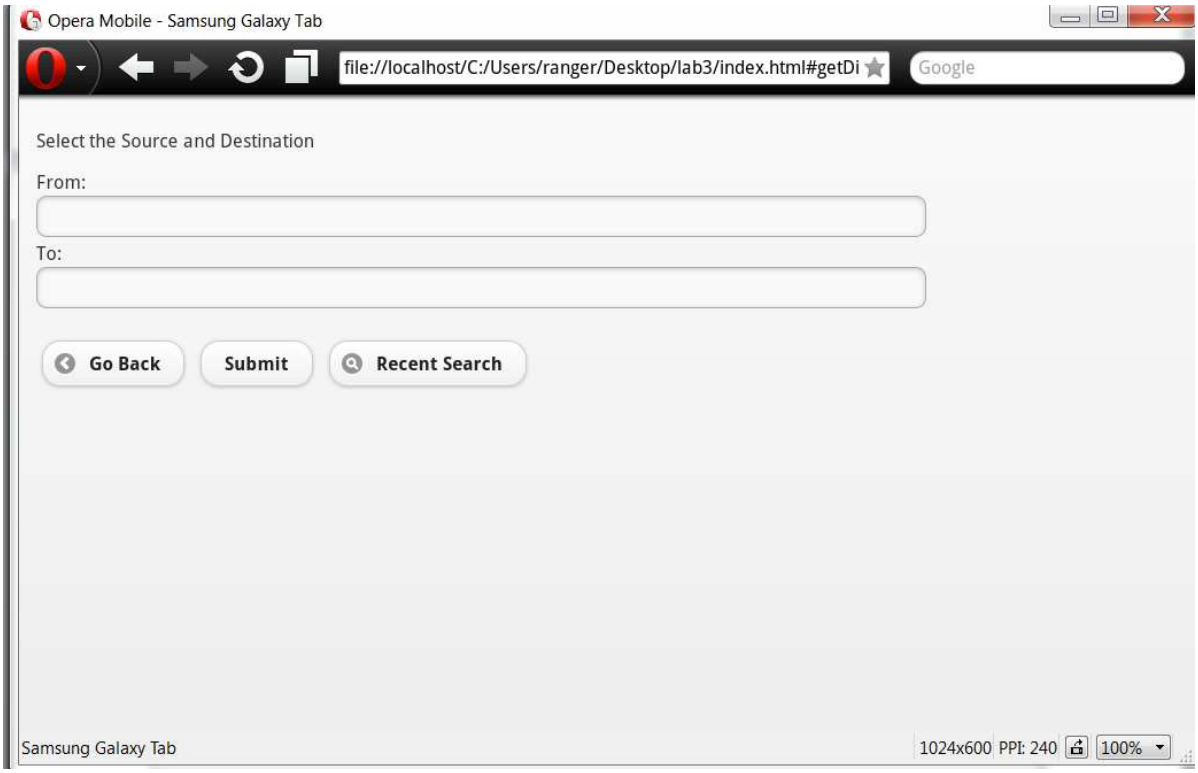
Since, this is a fresh browser so nothing is displayed. Now we enter the “from” and “to” fields for the search and click on submit for the google direction service. Clicking on submit stores the search in local database.



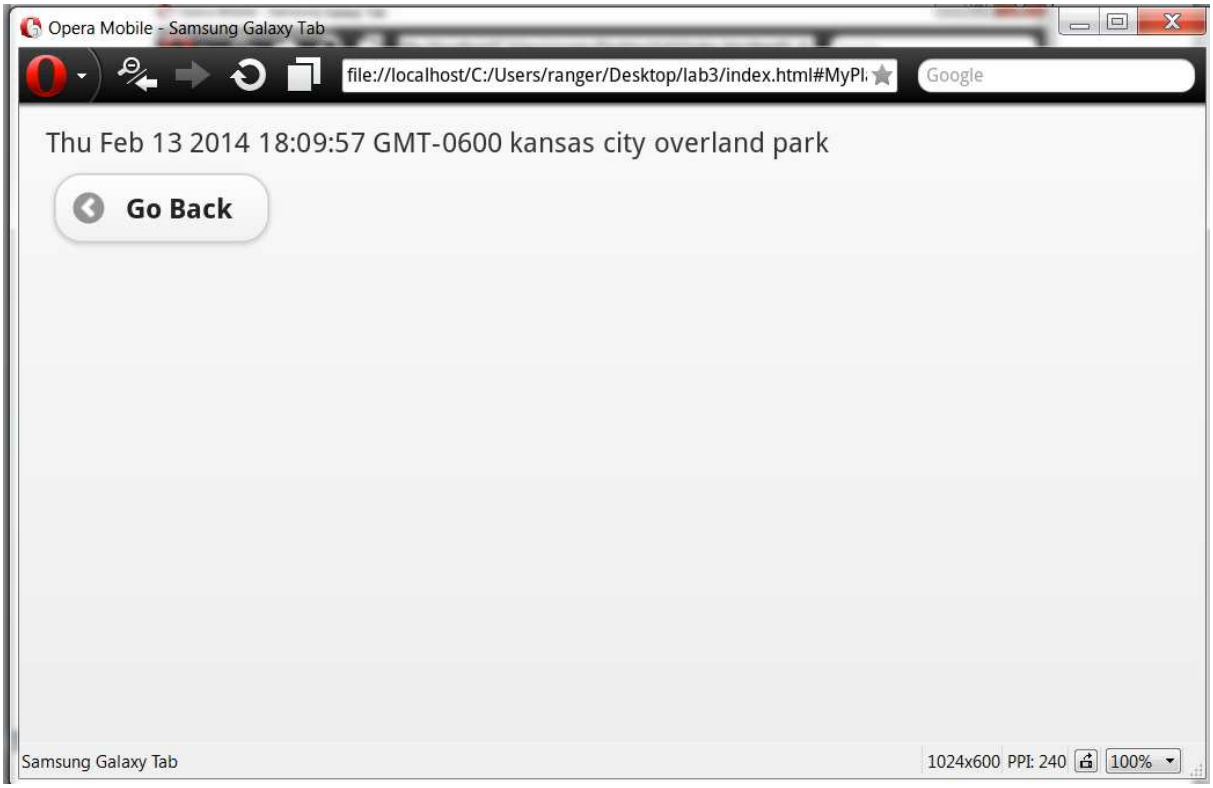
Google direction service provides the map based on the field values supplied.



Click on Recent Search Button to view the recent search.



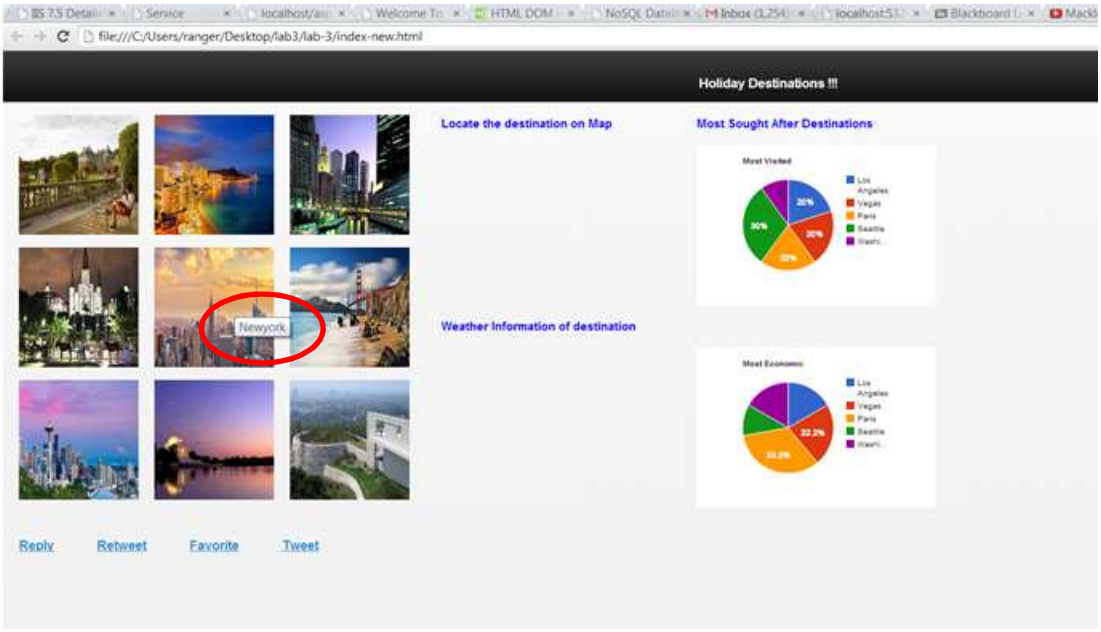
Recent Search History is displayed along with a time stamp.



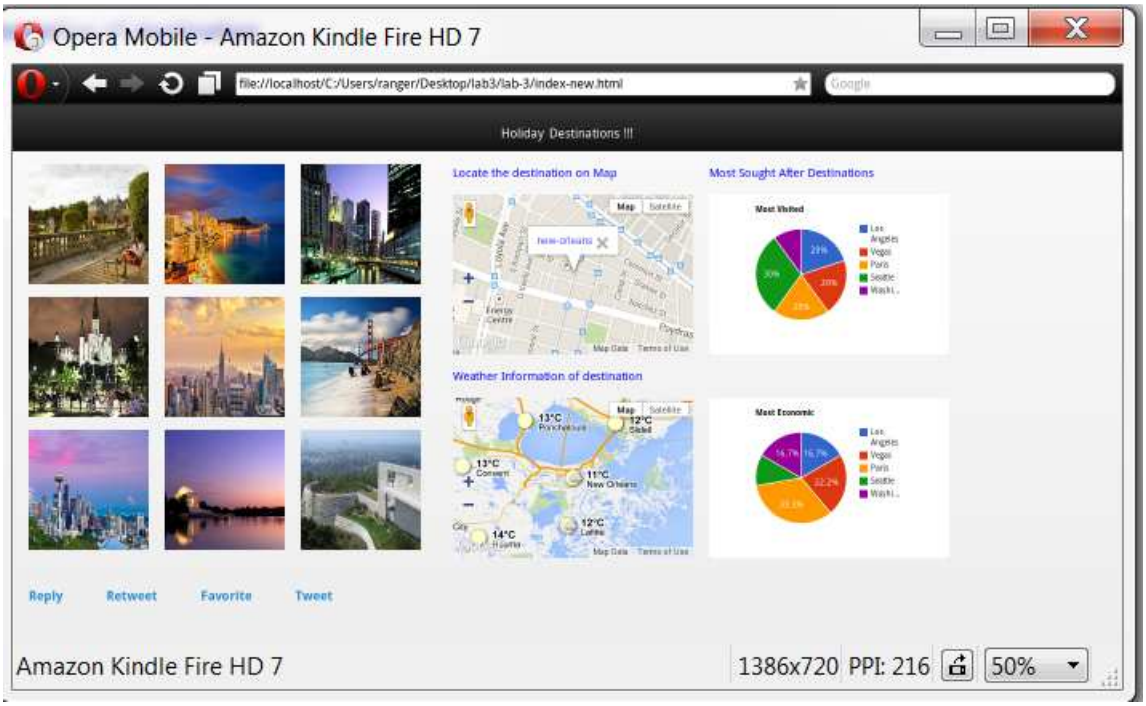
Q2. Make a Mashup application including various services (e.g., Google Map, Google Chart, Google Search, Yahoo, Amazon, Twitter, Facebook) Web Services (e.g., Google Map Services, Weather Services) for the application.

The Mashup application that I designed is a holiday destinations app. There are pictures of best holiday destination on the left.

By hovering on the pictures one can see the destination to which they belong. The user is hovering over the picture of Paris.

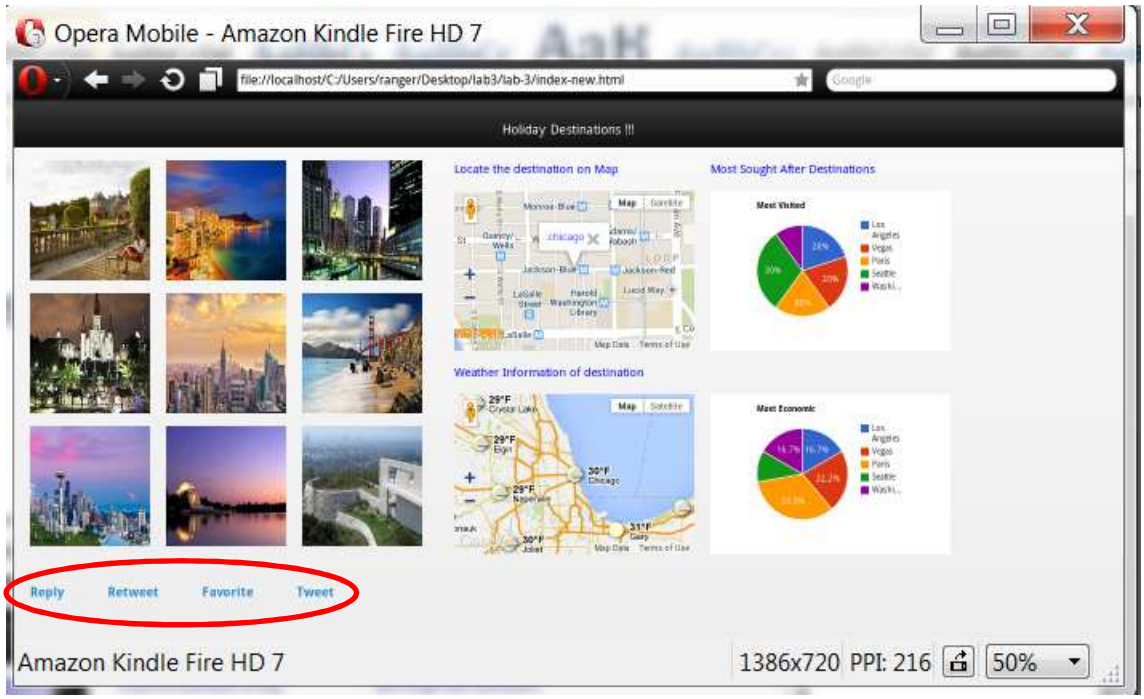


User then clicks on one of the pictures to see the location of the destination (shown by the marker) and the weather information of the destination. User clicked on New-Orleans.



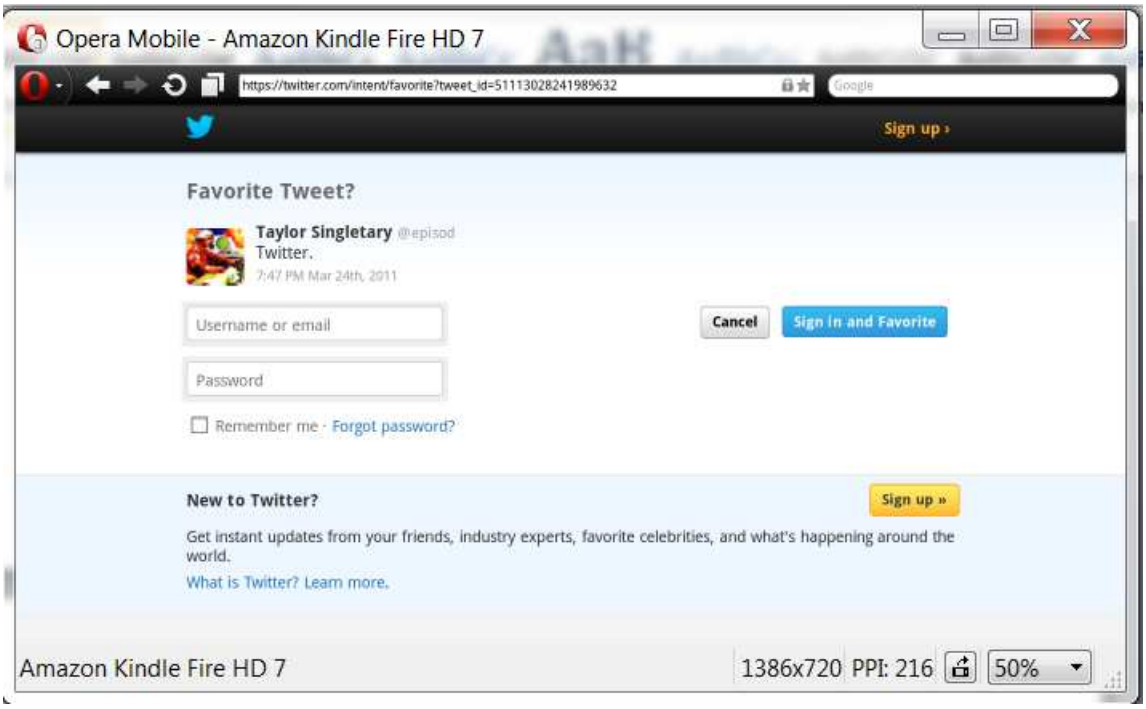
User clicked on the picture of Paris.

User clicked on Chicago. The user can tweet, set this site as favorite using twitter account.

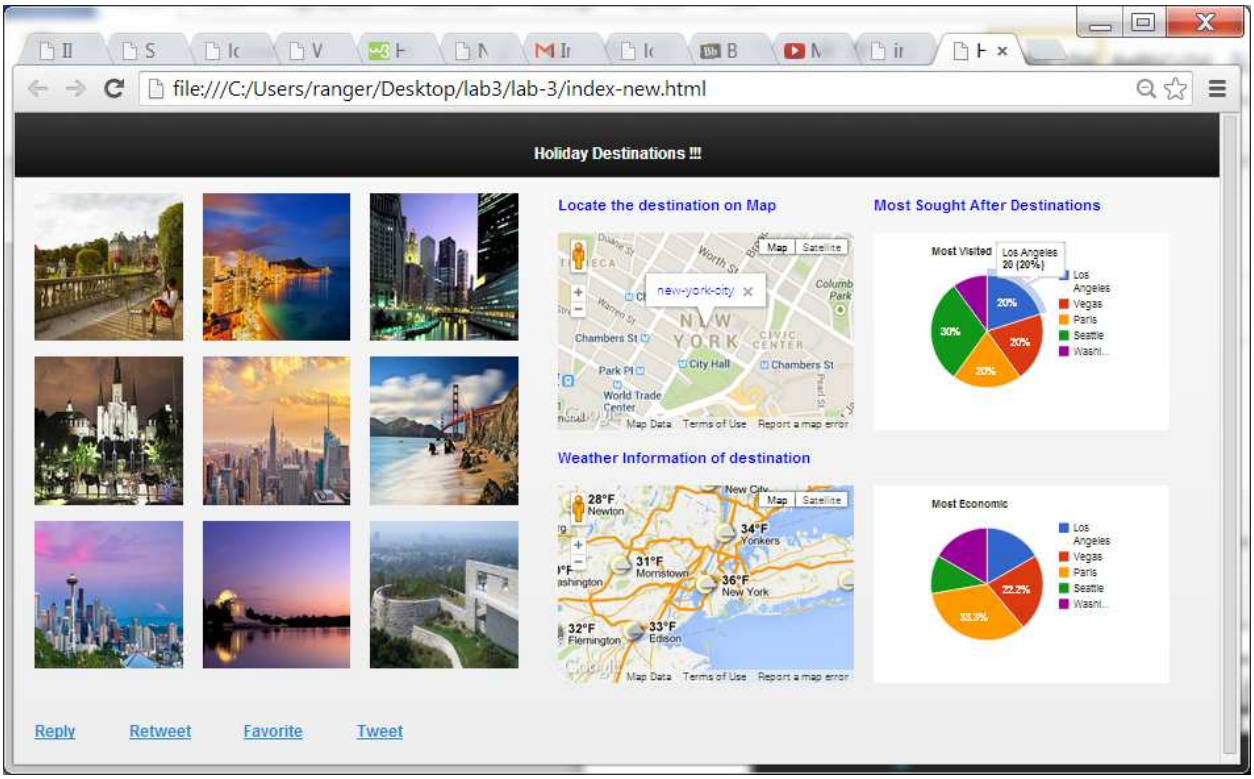


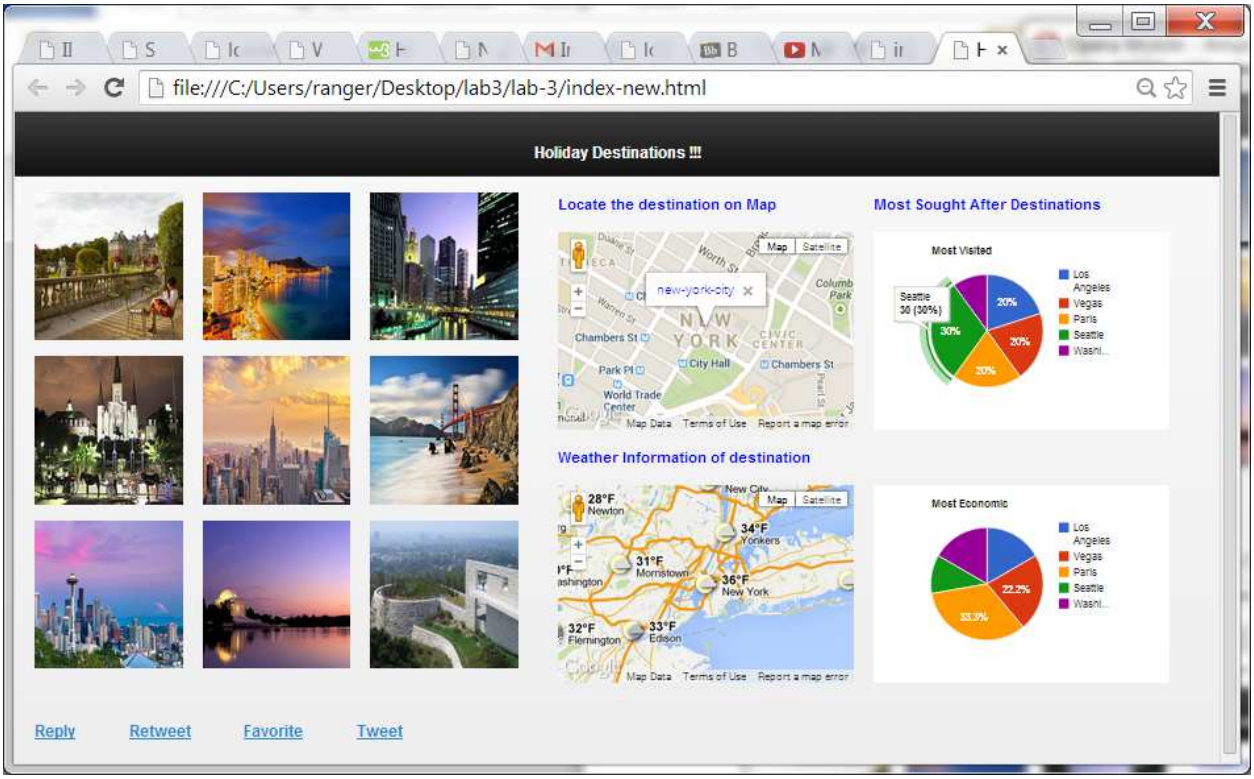
User Tweeting about this app.

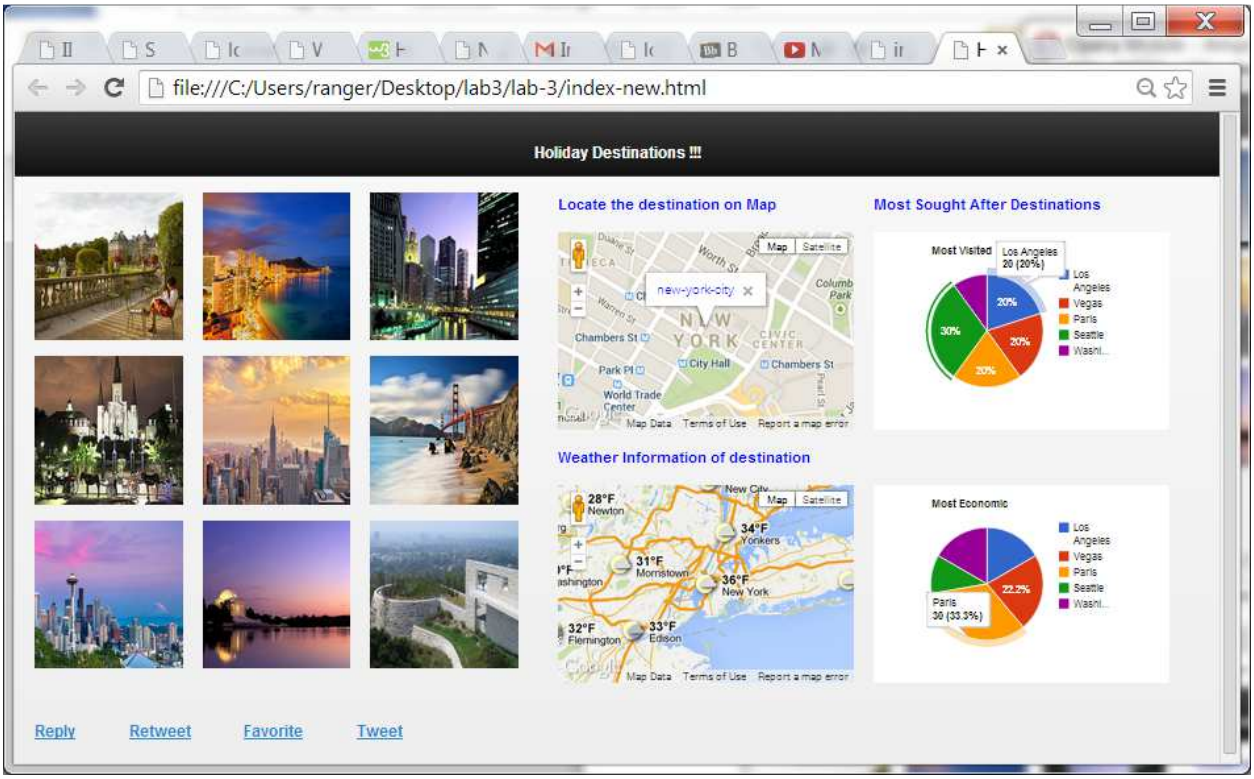
User setting this app to favorites.



The Mashup application also gives statistics on most visited destinations. By hovering on a section of pie it highlights and one can read the details.



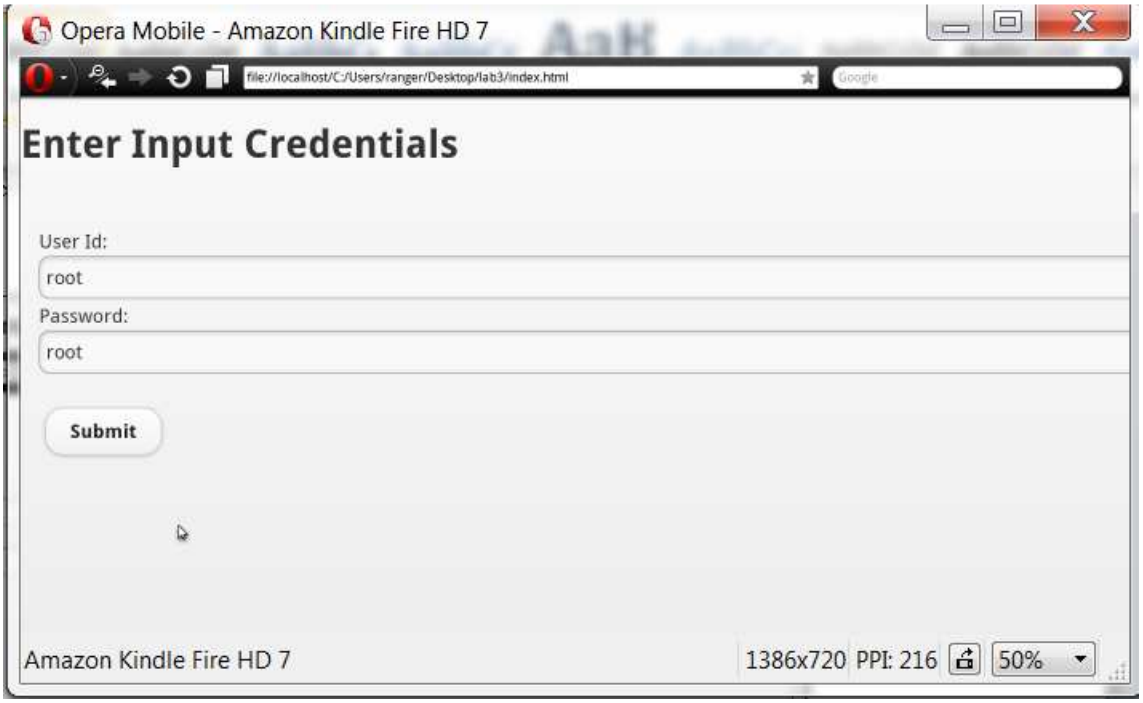

file:///C:/Users/ranger/Desktop/lab3/lab-3/index-new.html
Holiday Destinations !!!
Locate the destination on Map
Most Sought After Destinations
Most Visited
Seattle
30 (30%)
Los Angeles
Vegas
Paris
Seattle
Wash...
Weather Information of destination
Most Economic
Paris
30 (33.3%)
Reply
Retweet
Favorite
Tweet


file:///C:/Users/ranger/Desktop/lab3/lab-3/index-new.html
Holiday Destinations !!!
Locate the destination on Map
Most Sought After Destinations
Most Visited
Los Angeles
20 (20%)
Weather Information of destination
Most Economic
Reply
Retweet
Favorite
Tweet

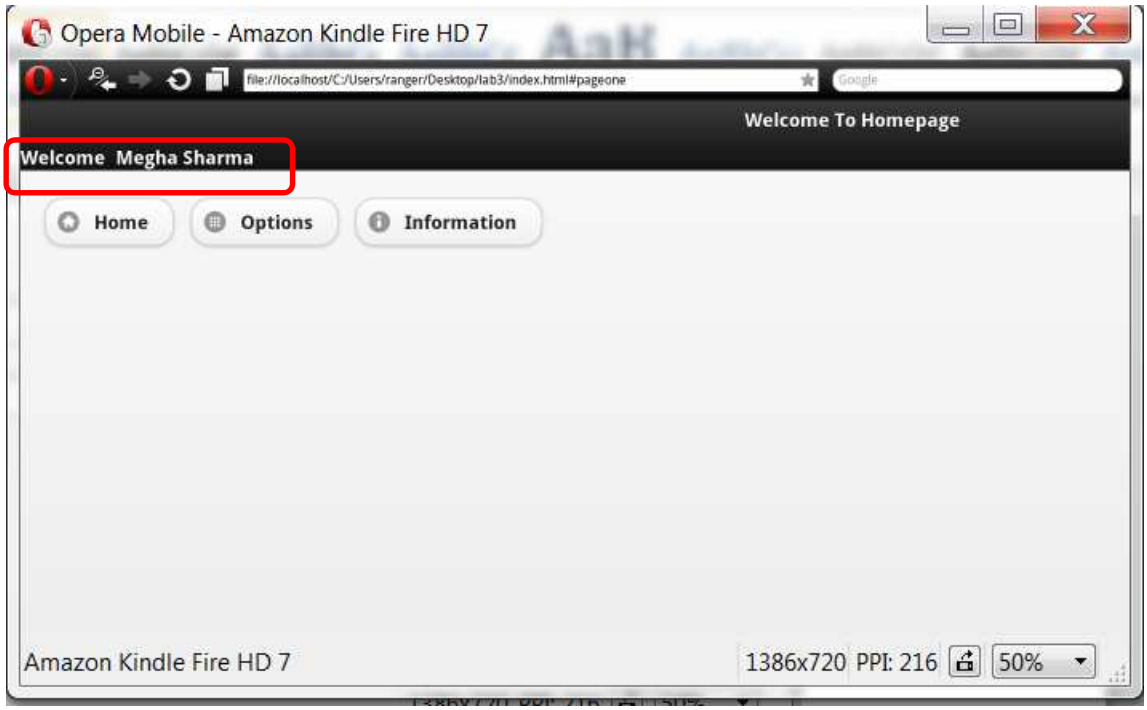
Q3 Implement your own REST Web Services and use them from your client application.

I am adding a user login feature to my web client using REST Web Services. The first screen of the web client has been changed to user login.

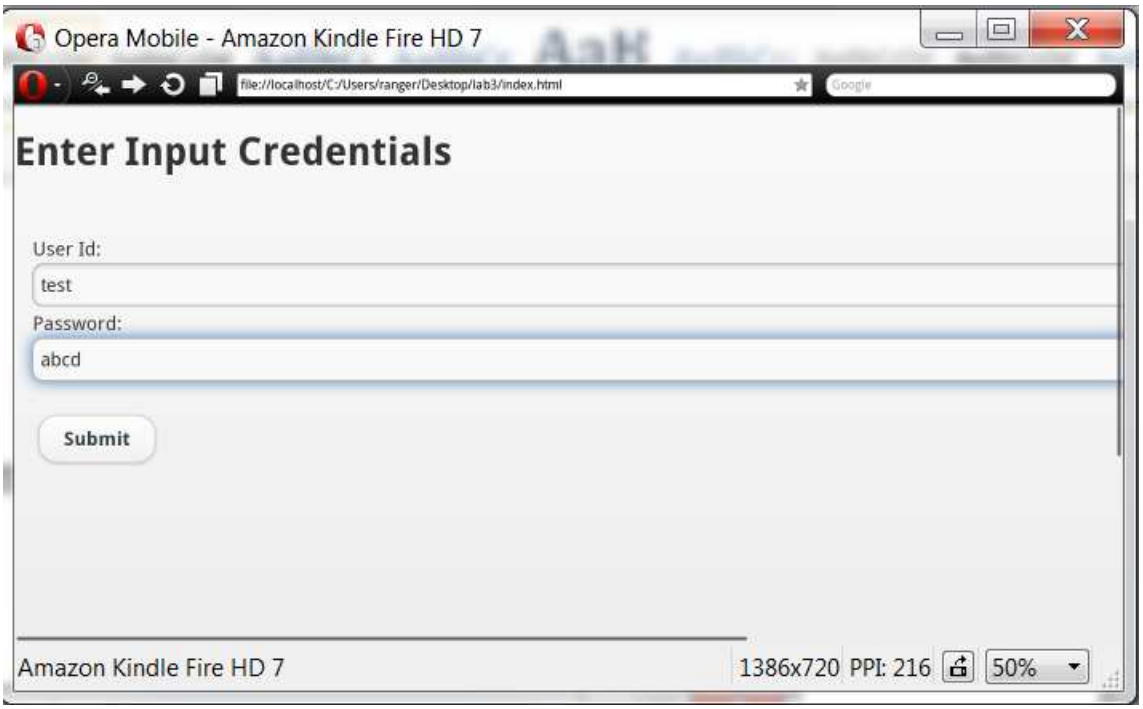
User supplies his userid and password, both are root here and clicks on Submit.



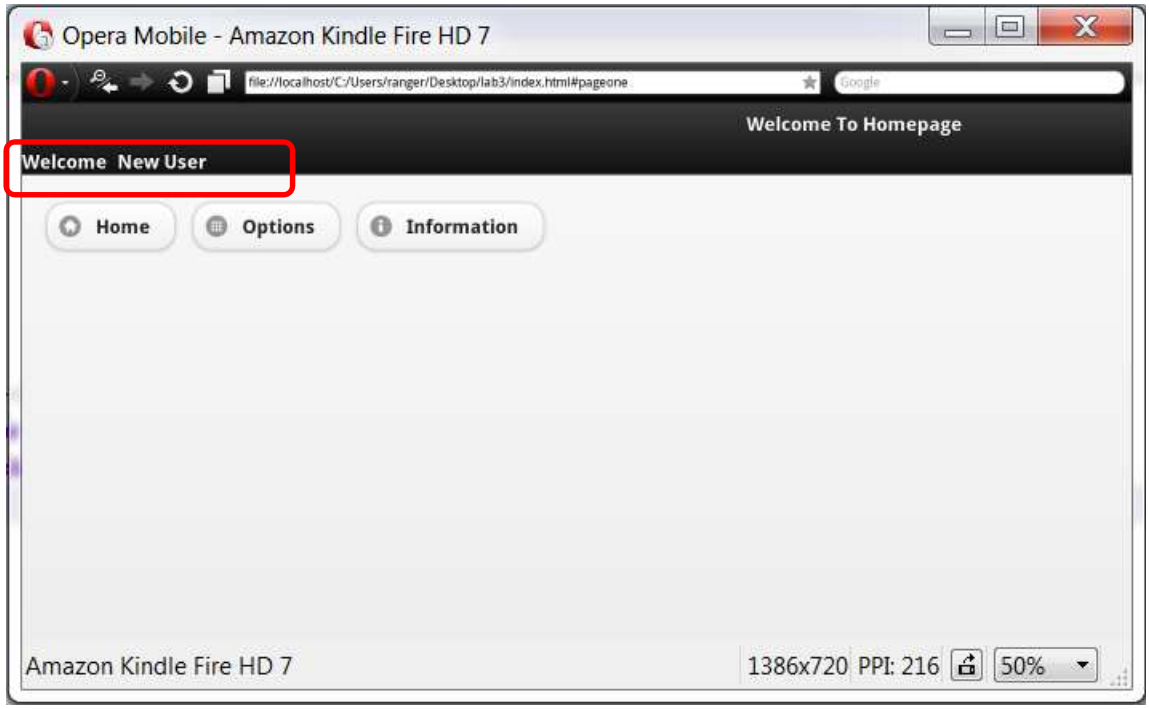
The system validates the user and shows the user name on the top left of the screen.



When the user enters a wrong userid or password (test in place of root) then the system detects it and no user information is displayed.



Since user failed validation so it prints New User instead of a user name.



The below ajax call gets executed when the user enters the value for fields userid and password, it populates the url string with userid and password supplied by the user.

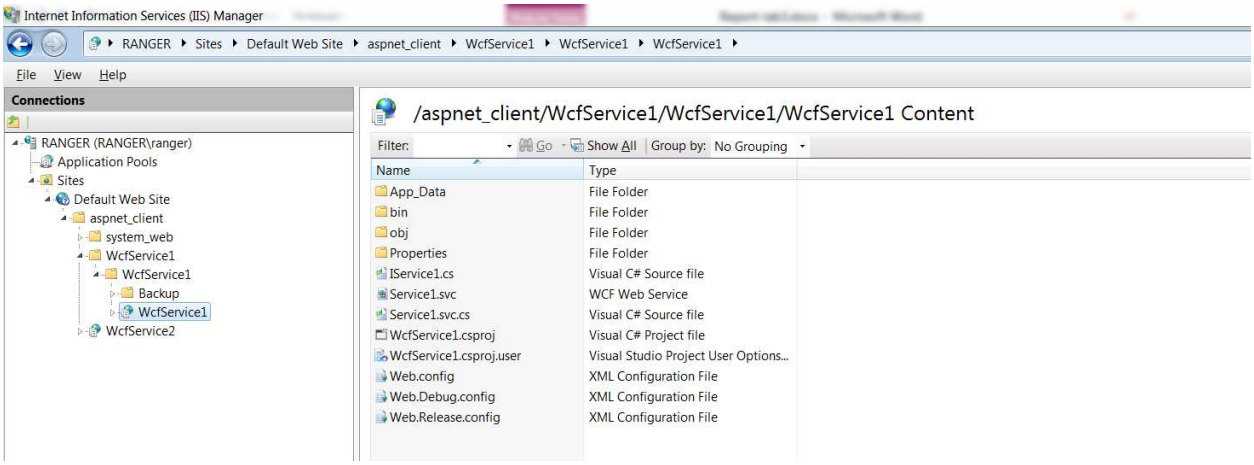
```
    var userName = document.getElementById('userid').value;
    var password = document.getElementById('password').value;
$.ajax({
    url: "http://localhost/aspnet_client/WcfService1/WcfService1/WcfService1/Service1.svc/data/"+userName+"/" + password
    }).then(function(data){
    if(data!='false'){
    document.getElementById('userName').innerHTML = data;
    }
    });
```

This passes the userid and password values to the webservice code shown below which performs validation and returns user name if it passes and false if it fails.

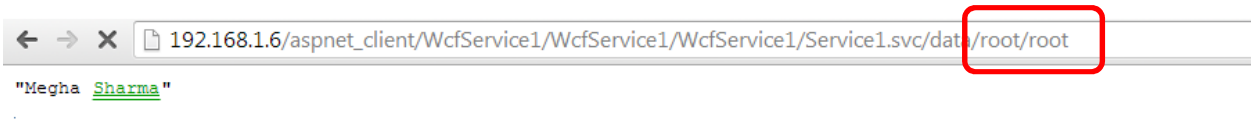
```
public string IsValidUser(string userid, string password)
{
    if (userid == "root" && password == "root")
    {
        return "Megha Sharma";
    }
    else
    {
        return "false";
    }

}
```

IIS server has been installed on the localhost so it acts as a server. The above code has been deployed as a webservice on this server so it can be accessed through an ajax call in the JQuery.



The webservice can also be called using the ip address of the server. Returns the user name if user id and password are correct (both root).



It returns false if any of them is incorrect.