

CS551 Advanced Software Engineering

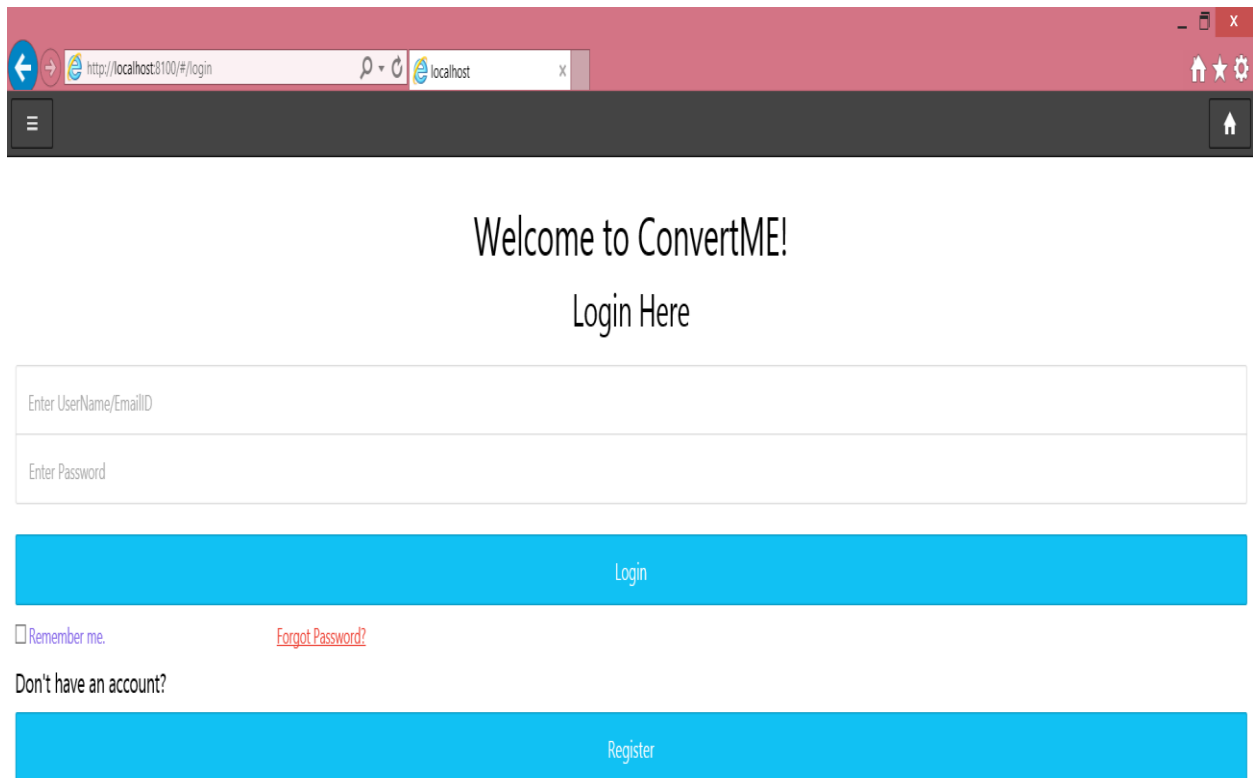
LAB ASSIGNMENT #7

I have created a hybrid application which runs both on web and mobile using ionic framework and it consists of 3 pages. First page is login page and it has 2 buttons Login and Register and others fields which are required for any login page. Second page is Registration page which has many text entry fields required for any user to enter and register with the application. 3rd page is home page which consists of mashup of two web services. For this application I have used Units API and Alchemy API for creating mashup and 'InApp browser' Ionic cordova plugin. The home page opens in a separate browser.

Ionic application in web browser:

Below is the login page which has two buttons, Login and Register. If user is already registered with the application and has login credentials then he/she can give those and can login successfully. If user does not remember his/her password, they can use Forgot password and can recover the password. If the user is new to the application he/she can register with the application by clicking on Register button.

Login page



Welcome to ConvertME!

Login Here

Enter UserName/EmailID

Enter Password

Login

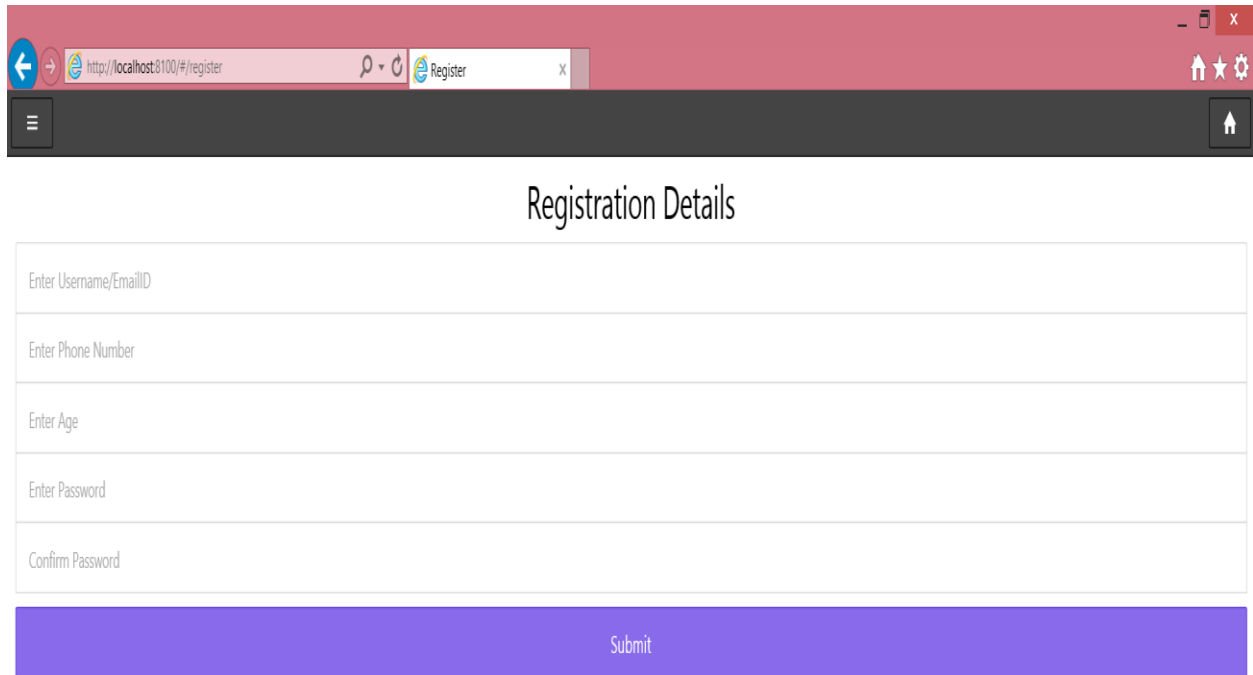
☐ Remember me. [Forgot Password?](#)

Don't have an account?

Register

Registration Page

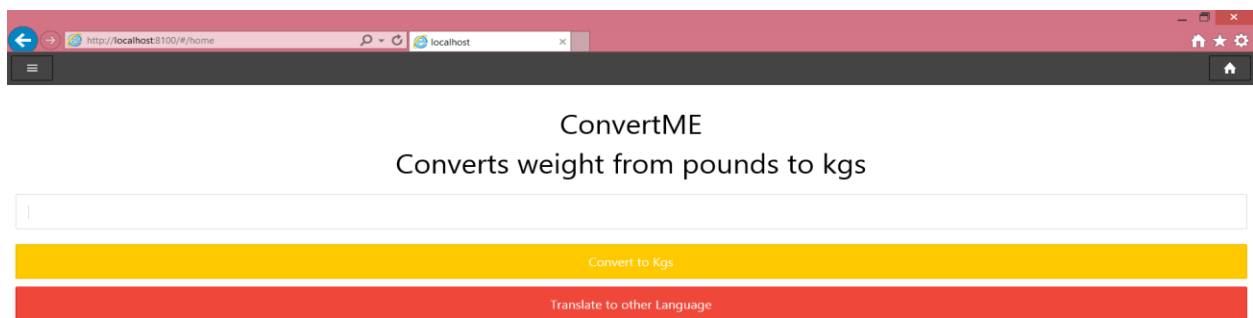
Below is the Registration page which has many text entry fields. If user is new and wants to register with the application, he/she can fill the necessary details and can register.



The screenshot shows a web browser window with the URL `http://localhost:8100/#/register`. The page title is "Register". The main heading is "Registration Details". Below the heading are five text input fields with placeholder text: "Enter Username/EmailID", "Enter Phone Number", "Enter Age", "Enter Password", and "Confirm Password". At the bottom of the form is a purple "Submit" button.

Home Page

Below is the home page which is a mashup of two API's. By using this user can convert the weight from pounds to Kgs and also can view the result in other language.



The screenshot shows a web browser window with the URL `http://localhost:8100/#/home`. The page title is "localhost". The main heading is "ConvertME". Below the heading is a sub-heading "Converts weight from pounds to kgs". There is a text input field for entering weight. Below the input field are two buttons: a yellow "Convert to Kgs" button and a red "Translate to other Language" button.

When user enters any value for conversion and clicks on 'Convert to kgs' button the application will display the conversion as below.

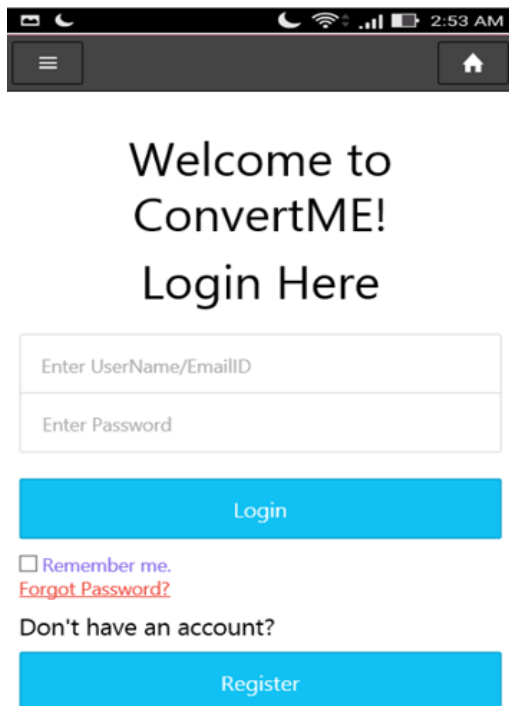
The screenshot shows a web browser window with the URL `http://localhost:8100/#/home`. The application title is "ConvertME" and the subtitle is "Converts weight from pounds to kgs". A text input field contains the value "45". Below the input field is a yellow button labeled "Convert to Kgs". Below the button is a light gray box displaying the result: "45 pounds is equal to 20.41164 kilograms". At the bottom is a red button labeled "Translate to other Language".

After the user has got the conversion result, when clicked on 'Translate to other language' button, the application will translate the result and displays in other lanaguage as below.

The screenshot shows the same web browser window as before. The application title and subtitle remain the same. The text input field still contains "45". The yellow "Convert to Kgs" button is still present. The light gray box now displays the translated result: "45 libras es igual a 20.41164 kilogramos". The red "Translate to other Language" button is still at the bottom.

Mobile Application screen shots

Login page



A screenshot of a mobile application's login page. At the top is a black status bar with icons for signal, Wi-Fi, and battery, and the time 2:53 AM. Below this is a dark grey navigation bar with a hamburger menu icon on the left and a home icon on the right. The main content area is white and features the text "Welcome to ConvertME! Login Here" in a large, black, sans-serif font. Below the text are two white input fields with grey placeholder text: "Enter UserName/EmailID" and "Enter Password". A bright blue "Login" button is positioned below the password field. Underneath the button are two links: a blue "Remember me." link with an unchecked checkbox, and a red "Forgot Password?" link. At the bottom, the text "Don't have an account?" is followed by a bright blue "Register" button.

Welcome to
ConvertME!
Login Here

Enter UserName/EmailID

Enter Password

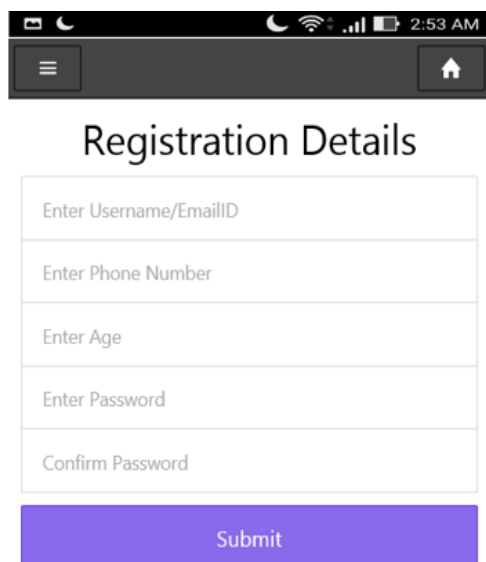
Login

☐ Remember me.
[Forgot Password?](#)

Don't have an account?

Register

Registration Page



A screenshot of a mobile application's registration page. It features the same black status bar and dark grey navigation bar as the login page. The main content area is white and displays the text "Registration Details" in a large, black, sans-serif font. Below this text are five white input fields with grey placeholder text, stacked vertically: "Enter Username/EmailID", "Enter Phone Number", "Enter Age", "Enter Password", and "Confirm Password". A purple "Submit" button is located at the bottom of the form.

Registration Details

Enter Username/EmailID

Enter Phone Number

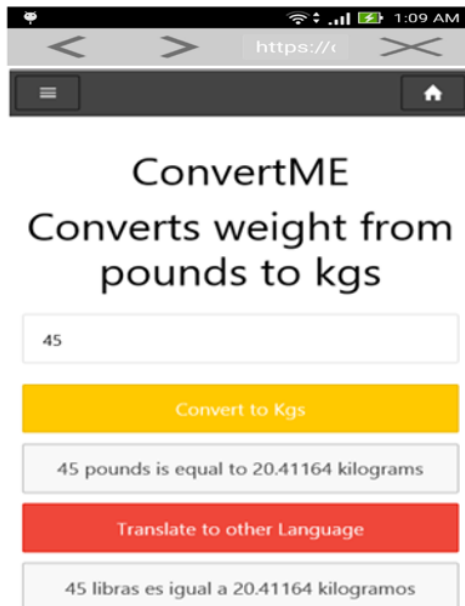
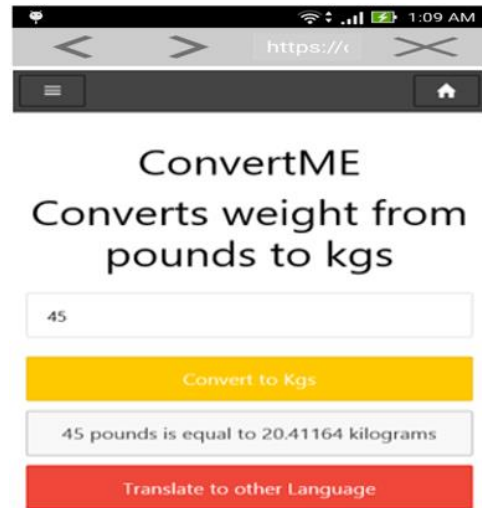
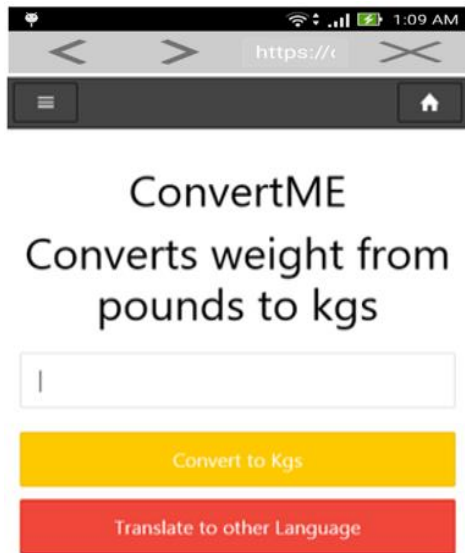
Enter Age

Enter Password

Confirm Password

Submit

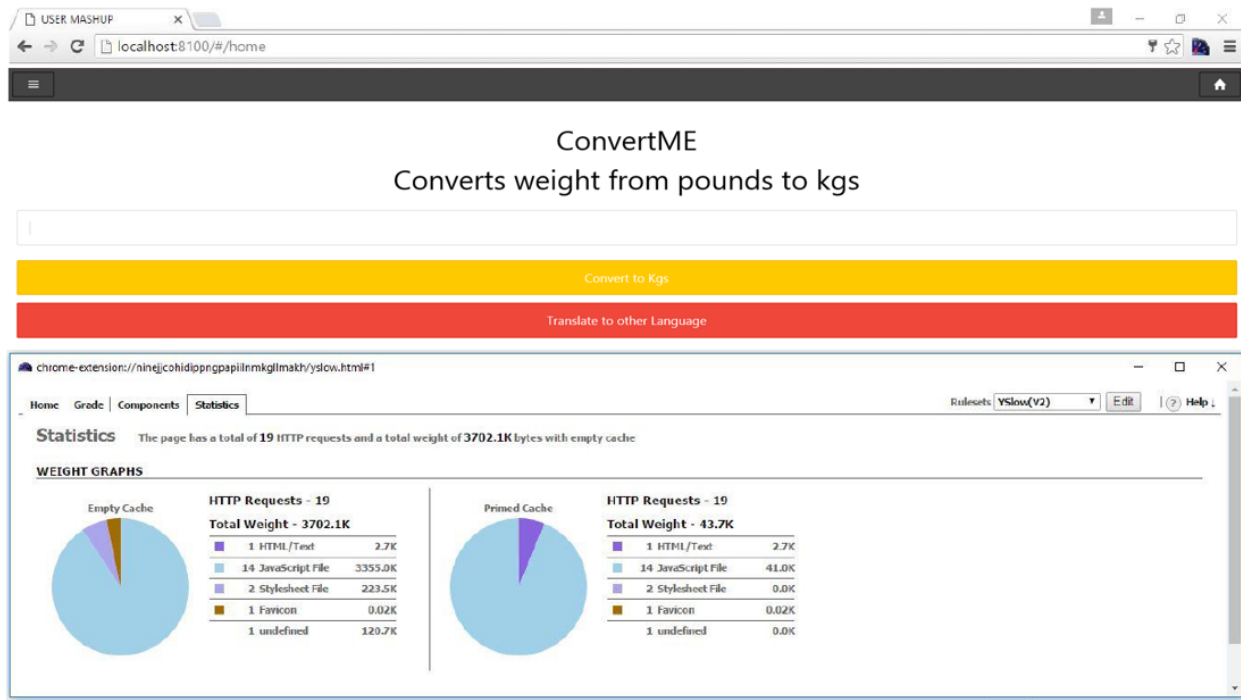
Home Page - Inapp browser



Yslow: Performance Testing

Performance Grade

Performance Statistics



Karma unit test cases:

```
AngularBasic — Google Chrome He • sudo — 80x24

Last login : Thu Oct 6 05:56:09 on ttys000
santhosh: ~santhosh$ cd desktop
santhosh: desktop santhosh$ cd angularbasic
santhosh: angularbasic santhosh$ sudo karma start my.conf.js
Password:
10 12 2016 05:58:24.018:WARN [watcher]: Pattern "/Users/santhosh/Desktop/AngularBasic/www/lib/ionic/js/ionic-angular.min.js" does not match any file.
10 12 2016 05:58:24.038:WARN [karma]: No captured browser, open http://localhost:9876/
10 12 2016 05:58:24.055:WARN [karma]: Port 9876 in use
10 12 2016 05:58:24.060:WARN [karma]: Port 9877 in use
10 12 2016 05:58:24.064:INFO [karma]: Karma v0.13.10 server started at http://localhost: 9878/
10 12 2016 05:58:24.072:INFO [launcher]: Starting browser Chrome
10 12 2016 05:58:27.153:INFO [Chrome 49.0.2623 (Mac OS X 10.11.3)]: Connected on socket vWxRH_VP_4KU5AAAA with id 9884886
Chrome 49.0.2623 (Mac OS X 10.11.3): Executed 1 of 1 SUCCESS (0secs / 0.055 sec
Chrome 49.0.2623 (Mac OS X 10.11.3): Executed 1 of 1 SUCCESS (0.22 secs / 0.055 secs)
```

```
AngularBasic — Google Chrome He • sudo — 80x24

Last login : Wed Oct 12 06:11:19 on ttys000
santhosh: ~santhosh$ cd desktop
santhosh: desktop santhosh$ cd angularbasic
santhosh: angularbasic santhosh$ sudo karma start my.conf.js
Password:
10 12 2016 06:24:10.018:WARN [watcher]: Pattern "/Users/santhosh/Desktop/A
ngularBasic/WWW/lib/ionic/js/ionic-angular.min.js" does not match any file.
10 12 2016 06:24:10.025:WARN [karma]: No captured browser, open http://local
host:9876/
10 12 2016 06:24:10.028:INFO [karma]: Karma v0.13.10 server started at http://lo
calhost: 9876/
10 12 2016 06:24:10.030:INFO [launcher]: Starting browser Chrome
10 12 2016 06:24:12.018:INFO [Chrome 49.0.2623 (Mac OS X 10.11.3)]: Connected
on socket b9h6S41PA8fWRdkAAAA with id 7154125
Chrome 49.0.2623 (Mac OS X 10.11.3): Executed 1 of 1 SUCCESS (0secs / 0.05 sec
Chrome 49.0.2623 (Mac OS X 10.11.3): Executed 2 of 3 SUCCESS (0secs / 0.045 sec
Chrome 49.0.2623 (Mac OS X 10.11.3): Executed 3 of 3 SUCCESS (0.026secs / 0.05
5 secs)
```

```
AngularBasic — Google Chrome He • sudo — 80x24

Last login : Wed Oct 12 06:25:19 on ttys000
santhosh: ~santhosh$ cd desktop
santhosh: desktop santhosh$ cd angularbasic
santhosh: angularbasic santhosh$ sudo karma start my.conf.js
Password:
10 12 2016 06:27:30.554:WARN [watcher]: Pattern "/Users/santhosh/Desktop/A
ngularBasic/WWW/lib/ionic/js/ionic-angular.min.js" does not match any file.
10 12 2016 06:27:30.582:WARN [karma]: No captured browser, open http://local
host:9876/
10 12 2016 06:27:30.589:INFO [karma]: Karma v0.13.10 server started at http://lo
calhost: 9876/
10 12 2016 06:27:31.596:INFO [launcher]: Starting browser Chrome
10 12 2016 06:27:32.999:INFO [Chrome 49.0.2623 (Mac OS X 10.11.3)]: Connected
on socket b9h6S41PA8fWRdkAAAA with id 7154125
Chrome 49.0.2623 (Mac OS X 10.11.3): Executed 1 of 1 SUCCESS (0secs / 0.055 sec
Chrome 49.0.2623 (Mac OS X 10.11.3): Executed 2 of 3 SUCCESS (0secs / 0.032 sec
Chrome 49.0.2623 (Mac OS X 10.11.3) myController username Tests UserName fe
ature of the application FAILED
    Expected 'sant oosh' to equal 'santhosh'
      at object.<anonymous> (/Users/santhosh/Desktop/AngularBa
sic/js/text.js:55:48)
Chrome 49.0.2623 (Mac OS X 10.11.3): Executed 3 of 3 (1 FAILED) (0.0 / 0.026 sec
Chrome 49.0.2623 (Mac OS X 10.11.3): Executed 3 of 3 (1 FAILED) (0.015 / 0.038
secs)
```