

CS551 Advanced Software Engineering

LAB ASSIGNMENT #9

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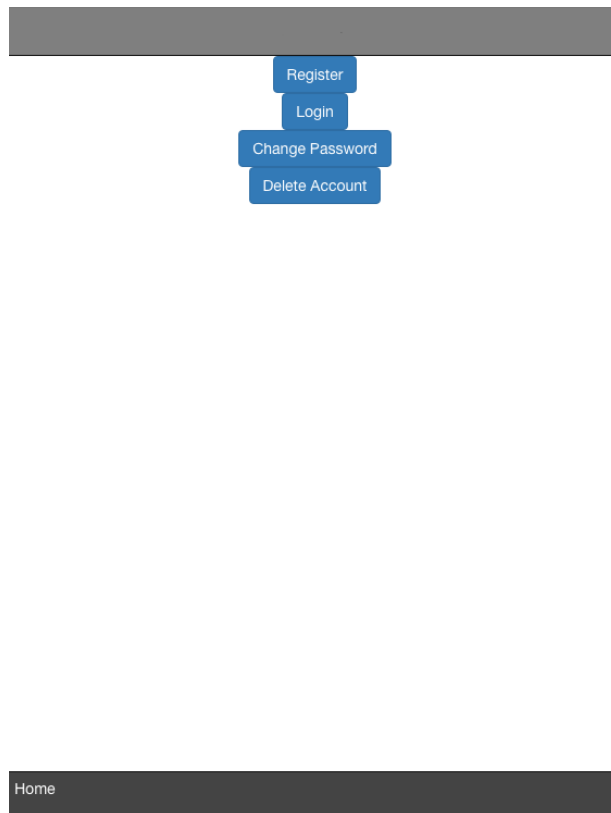
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Class ID : 58

Part I : Use at least one cordova plugin related to your project

In this assignment, I created a mobile application related to my project. The home page, we can see all the available features of this application such as register, login, change password and delete account. If the user don't have the existing account, they have to create a new account by clicking the register button. The below screenshot shows the home page.



The below screenshot shows the register page. By giving all the basic details, the user can create a new account. Some fields are required and the user should have to enter all those fields otherwise the validation error will be thrown. Once the user create an account, they can login through the login page.

Register

Username*	Username
Password*	Password
Repeat password*	Password
Email*	user@mail.com
Home address	123 My Street
City	Anytown
State	MO
Country	United States

Register



* = required fields

Register -[Home](#)

Validation test case I

The required field validation has been applied there in this register page. So the field with * should have to enter, otherwise the error will be thrown. The screenshot shows the successful test because the validate fields are entered.

Register

Username*	jfathima
Password*	***** 
Repeat password*	***** 
Email*	jfathimajames@gmail..com
Home address	5720 Grand Ave
City	Kansas City
State	MO
Country	United States

Register

* = required fields

Register -[Home](#)

Validation test case II

The below screenshot shows the failure test case. As shown in the screenshot, the user can't directly click the register page. If it's happened, the validation error will be thrown. They have to give all the required fields.

Register

Username*	Username
Password*	Password
Repeat password*	Password
Email*	user@mail.com
Home address	123 My Street
City	Anytown
State	MO
Country	United States

Register

* = required fields

Please enter all the required fields

Register -Home

Validation test case III

As per the below screenshot, if the user gives the wrong username or password, the specific error will be thrown. This is the second failure test case. Once the user register their details, they can login through login page.

Register

Username*	ABC
Password*	***** <div></div>
Repeat password*	***** <div></div>
Email*	jfathimajames@gmail..com
Home address	5720 Grand Ave
City	Kansas City
State	MO
Country	United States

Register




* = required fields

The username is incorrect

Register -[Home](#)

The login page, we have the option to change the password. If the user want to change the password, they change the password as shown the below screenshot.

Change Password

Username	jfathima
Old Password	***** 
New Password	***** 
Repeat Password	***** 

Change password

Change Password - [Logout](#)

The below screenshot shows the login page. The user can login by giving their login credentials.

Login here!

Username	jfathima
Password	***** *

Login Account

Change Password - [Home](#)

After login, the user can get their location or any other specific location by using the map and giving their specific start and end location.

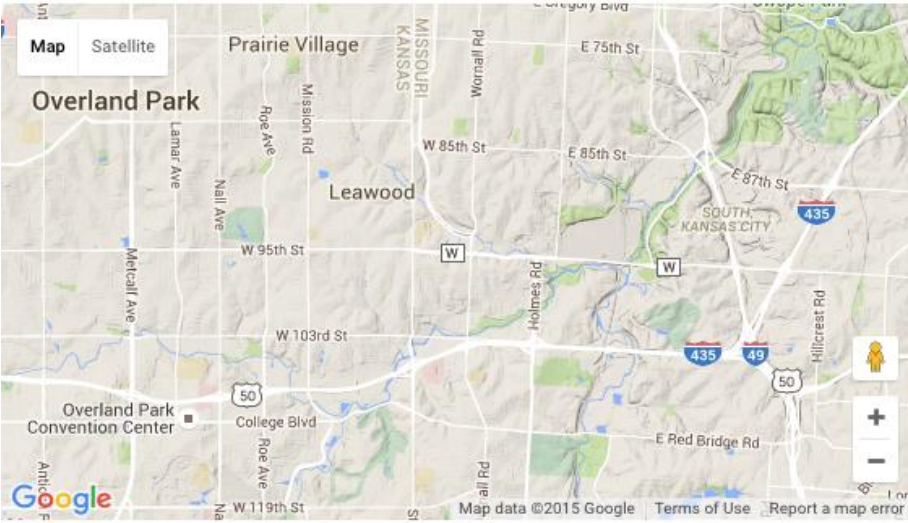
Start5720 Grand Ave, Kansas city, MO - 64113

End6000 College Blvd, Overland Park, KC - 66211

Go

MapSatellite

Overland Park



Map -Home

The user can delete their account by giving their login details in delete page as shown in the figure.

Delete Account

To delete an account, enter the login info below and click Remove

Username	Username
Password	Password *

Remove

Delete - [Home](#)

Part II : Use Yslow to analyze the performance of all your htmls

I used Yslow to analyze the performance. The below two screenshots show the analyze of my htmls and the user can register through the web as well

The screenshot shows a web browser with a URL bar displaying `192.168.37.1:8100/#/event/home`. The web application has a red header with a "Menu" button and a blue header with a "Welcome" message. The main content area shows a "Registration Page" and a "Customers list".

Overlaid on the browser is the Yslow performance analysis tool. The tool shows the overall performance score as **Grade B** with a score of 80. The ruleset applied is YSlow(V2) and the URL is `http://192.168.37.1:8100/#/event/home`.

The analysis highlights several issues:

- B Make fewer HTTP requests**: This page has 6 external Javascript scripts. Try combining them into one.
- F Use a Content Delivery Network (CDN)**
- A Avoid empty src or href**
- F Add Expires headers**
- F Compress components with gzip**
- A Put CSS at top**
- C Put JavaScript at bottom**
- A Avoid CSS expressions**
- n/a Make JavaScript and CSS external**
- A Reduce DNS lookups**

The tool also provides a detailed breakdown of the components loaded on the page:

TYPE	SIZE (KB)	GZIP (KB)	COOKIE RECEIVED (bytes)	COOKIE SENT (bytes)	HEADERS	URL	EXPIRES (Y/M/D)	RESPONSE TIME (ms)	ETAG	ACTION
doc (1)	5.8K									
js (6)	714.9K									
css (1)	223.7K									
favicon (1)	0.02K									
font (1)	120.7K									

* type column indicates the component is loaded after window onload event
† denotes 1x1 pixels image that may be image beacon

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