CS5551 – Advanced Software Engineering Dr. Yugyung lee Assignment# 9

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Task: Use a Cordova Plugin in the existing Lab 8 Ionic Project and analyze the performance using YSlow and Firebug.

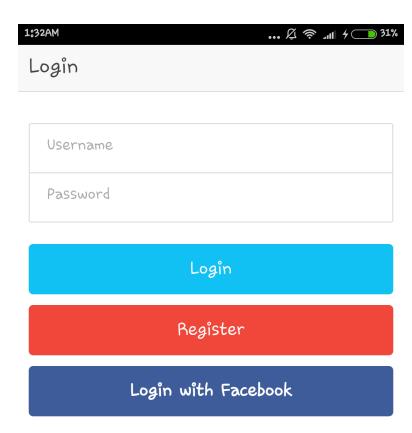
Steps:

- 1. Facebook Authentication Plugin has been chosen to authenticate users to use the application.
- 2. Users can either Register/Login using their personal Email/password or use Social login feature like Facebook to use the application.
- An application(Lab9) is registered on Facebook's developer console, Android Platform is added to the Facebook application and Package Name, Hashkeys are filled and facebooklogin plugin has been installed.
- 4. The application requests for the details like User full name, email, location and education from the user and they are stored using LocalStorage by a Service. This service is injected into the controllers.
- 5. Application has been deployed to an Android device.
- 6. YSlow extension is installed on Chrome and the Tests are ran for each page of the application.

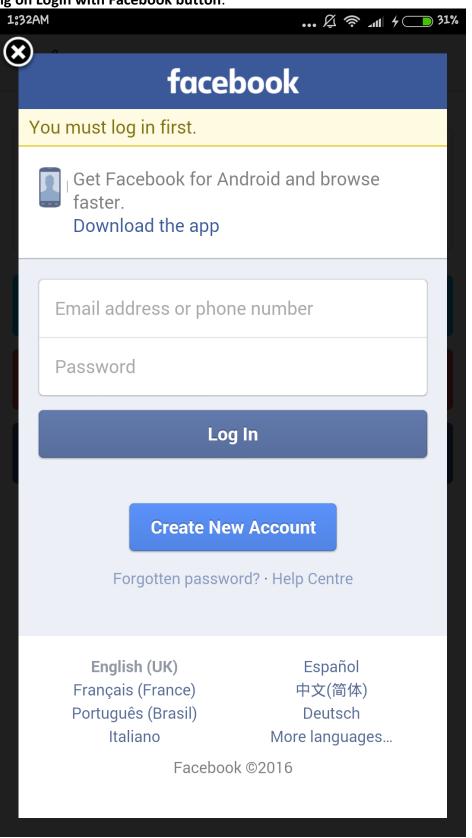
Screenshots:

Android Device – Application Login Page.

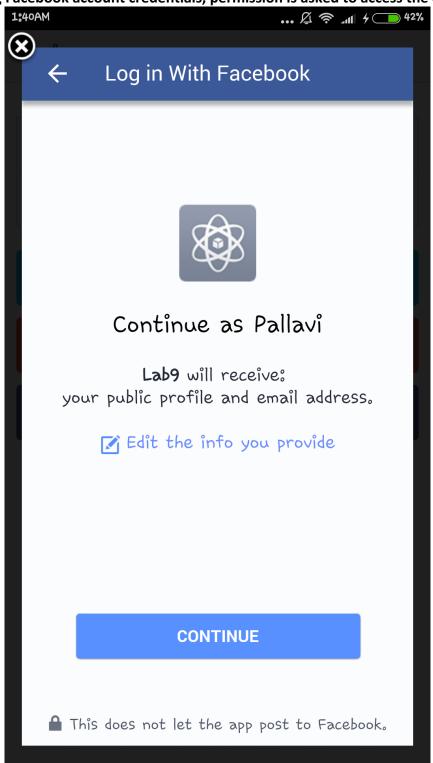
User can either use app-specific login credentials or Facebook login credentials.



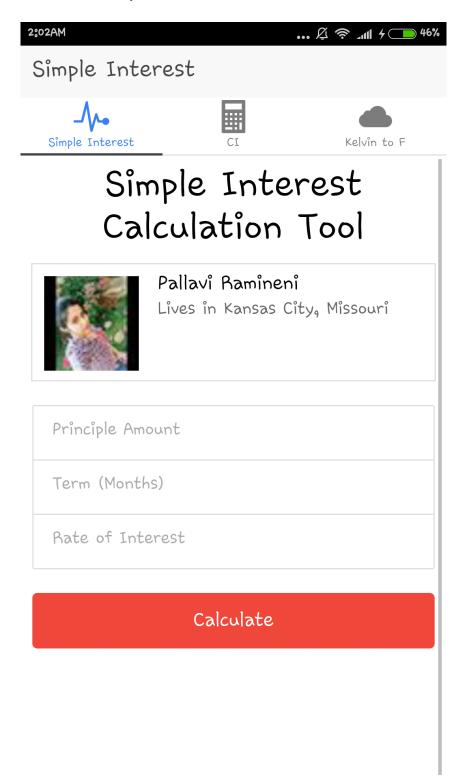
Upon tapping on Login with Facebook button:

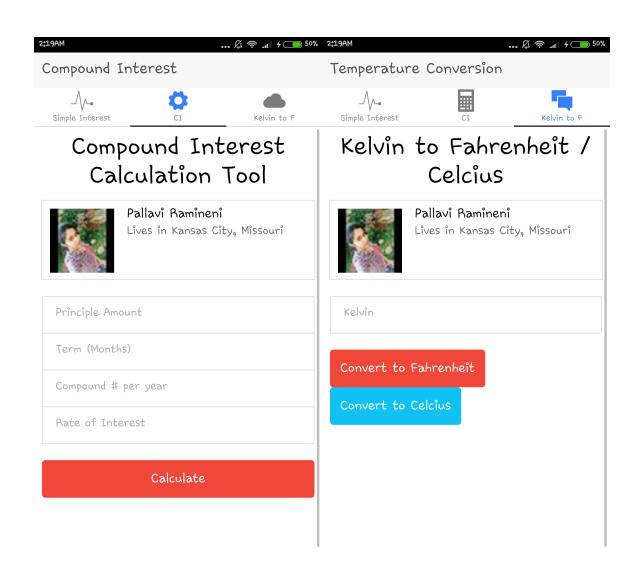


Upon entering Facebook account credentials, permission is asked to access the details:

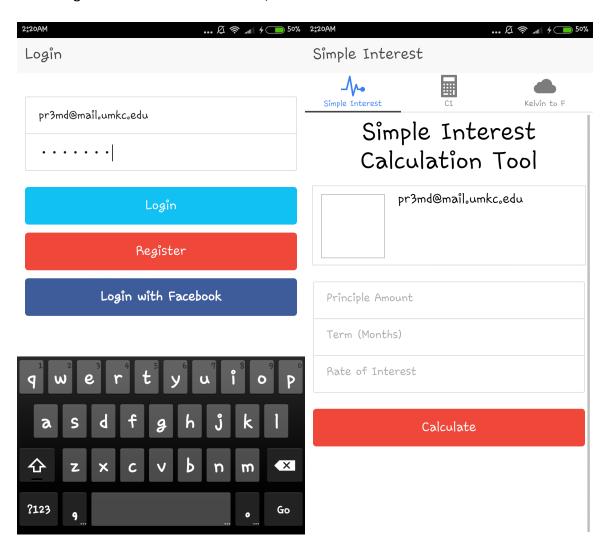


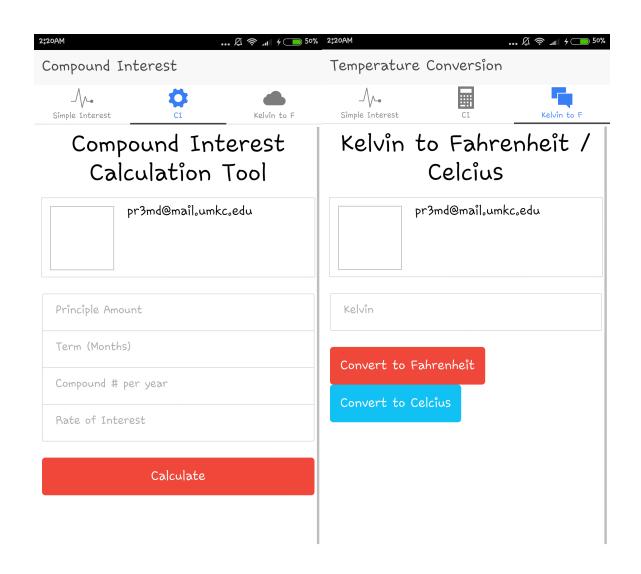
Upon successful authentication, user is redirected to Dashboard:

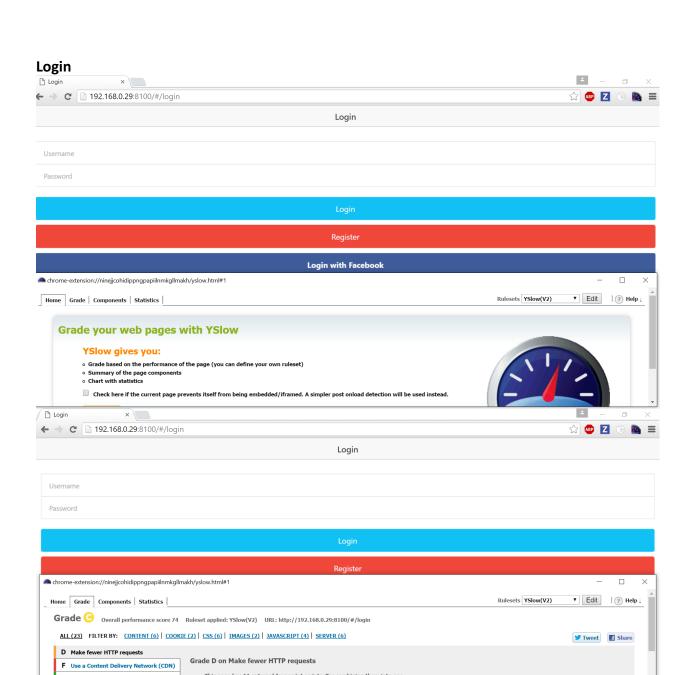




If user logins with Firebase credentials, then:







This page has 11 external Javascript scripts. Try combining them into one.

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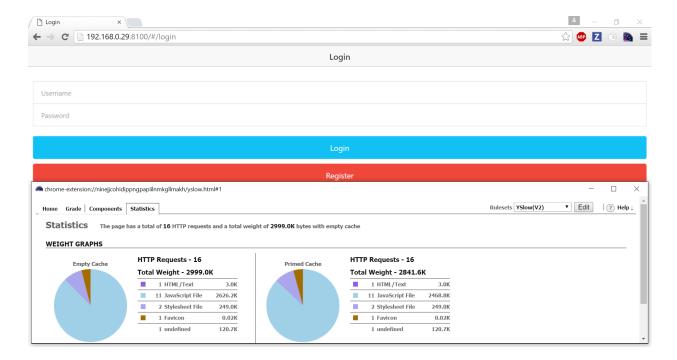
Decreasing the number of components on a page reduces the number of HTTP requests required to render the page, resulting in faster page loads. Some ways to reduce the number of components include: combine files, combine multiple scripts into one script, combine multiple CSS files into one style sheet, and use CSS Sprites and image maps.

A Avoid empty src or href

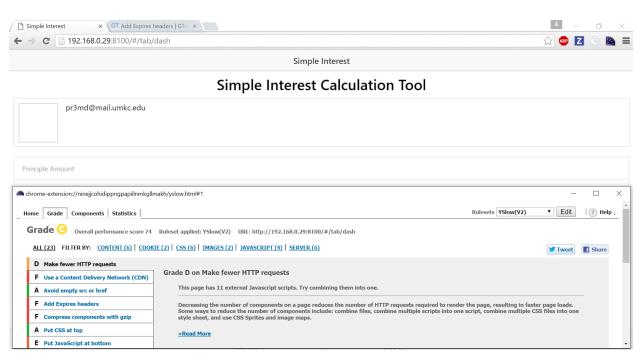
E Put JavaScript at bottom

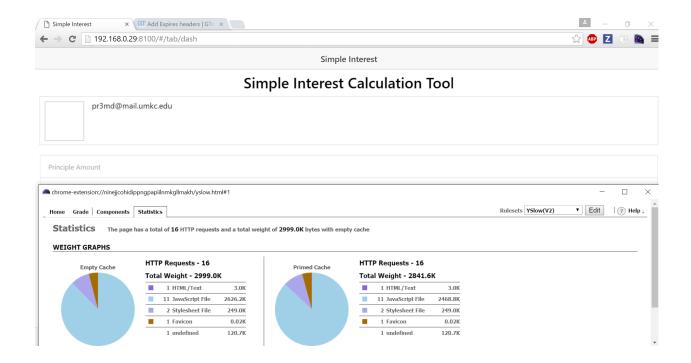
F Add Expires headers F Compress components with gzip

A Put CSS at top

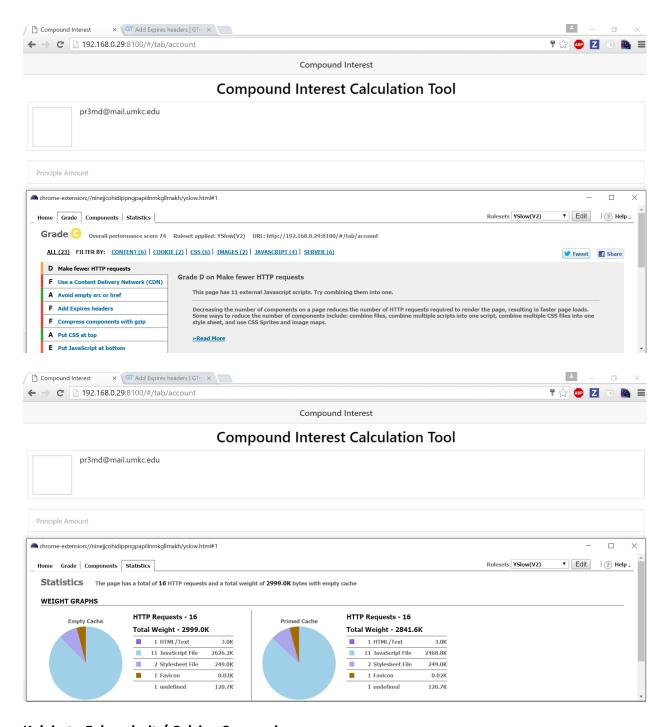


Simple Interest





Compound Interest



Kelvin to Fahrenheit / Celsius Conversion

