

Team 2

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Objective

Add to lab5 ionic app by adding Firebase authentication for the login/register page. Also, add a Cordova plugin related to the app. Lastly, store to Firebase's realtime database and present data to user upon login.

Features Steps

I had a lot of trouble implementing the features for this lab as I believe something is going on with my Ionic install. I was never able to get this integrated with Android Studio. Due to this, I was never able to make progress on the Cordova portion as these plugins are not supported by the browser. I had intentions of using the built in speech to text plugin but was not successful. I also created a button to store the latest search to Firebase's realtime database but wasn't sure how to include a connection to the user for retrieval upon the same user logging in. Therefore, my lab does not include a video and I am just submitting the wiki in hopes of getting a little credit. I understand I didn't include nearly all the necessary features, but want to get back on track by submitting lab6 early so I can work on my upcoming project increment 2 this weekend.

Source Code

Login Page

```
<ion-header>
  <ion-toolbar>
    <div class="bar bar-header bar-calm">
      <h1 class="title">Login</h1>
    </div>
  </ion-toolbar>
</ion-header>

<ion-content padding>

  <ion-list>
    <ion-item>
      <ion-label>Email</ion-label>
      <ion-input type="text" #username></ion-input>
    </ion-item>
    <ion-item>
      <ion-label>Password</ion-label>
      <ion-input type="password" #password></ion-input>
    </ion-item>
  </ion-list>

  <div padding>
    <button ion-button (click)="loginUser()" class="button button-block button-positive">
      Sign In
    </button>
  </div>

  {{alert}}

</ion-content>
```

```

import { Component } from '@angular/core';
import { ViewChild } from "@angular/core";
import { NavController } from "ionic-angular";
import { ContactPage } from "../contact/contact";
import { AngularFireAuth } from 'angularfire2/auth';

@Component({
  selector: 'page-home',
  templateUrl: 'home.html'
})
export class HomePage {

  @ViewChild('username') username;
  @ViewChild('password') password;
  alert = '';

  constructor(public navCtrl: NavController, private firebaseauth: AngularFireAuth) {}

  async loginUser() {
    this.alert = '';
    console.log(this.username.value);
    console.log(this.password.value);

    if (this.username.value !== '' && this.password.value !== '') {
      try {
        this.firebaseauth.auth.signInWithEmailAndPassword(this.username.value, this.password.value).then( onfulfilled: () => {
          this.navCtrl.push(ContactPage);
        }).catch( onrejected: () => {
          this.alert = "Try again. Invalid Credentials";
        })
      } catch (e) {
        console.error(e);
      }
    } else {
      this.alert = "Email and Password required"
    }
  }
}

```

Registration Page

```

1  <ion-header>
2  <ion-toolbar>
3    <ion-title>
4      Register
5    </ion-title>
6  </ion-toolbar>
7 </ion-header>
8
9 <ion-content padding>
10
11 <ion-list>
12   <ion-item>
13     <ion-label>Email</ion-label>
14     <ion-input type="text" #emailAdd></ion-input>
15   </ion-item>
16   <ion-item>
17     <ion-label>Password</ion-label>
18     <ion-input type="password" #password></ion-input>
19   </ion-item>
20   <ion-item>
21     <ion-label>Confirm Password</ion-label>
22     <ion-input type="password" #Cpassword></ion-input>
23   </ion-item>
24 </ion-list>
25
26 <div padding>
27   <button ion-button (click)="registerUser()" class="button button-block button-positive">
28     Register
29   </button>
30 </div>
31
32 {{alert}}
33
34
35 </ion-content>
36

```

```

import { Component } from '@angular/core';
import { ViewChild } from "@angular/core";
import { NavController } from "ionic-angular";
import { HomePage } from "../home/home";
import { AngularFireAuth } from 'angularfire2/auth';

@Component({
  selector: 'page-about',
  templateUrl: 'about.html'
})
export class AboutPage {

  constructor(public navCtrl: NavController, private firebaseauth: AngularFireAuth) {

  }

  @ViewChild('emailAdd') emailAdd;
  @ViewChild('password') password;
  @ViewChild('Cpassword') Cpassword;
  alert = '';

  async registerUser() {
    this.alert = '';
    if (this.emailAdd.value !== '' && this.password.value !== '' && this.Cpassword.value !== ''
    && (this.password.value === this.Cpassword.value)) {

      try {
        this.firebaseauth.auth.createUserWithEmailAndPassword(this.emailAdd.value, this.password.value).then( () => {
          this.navCtrl.push(HomePage);
        }).catch( () => {
          {
            this.alert = "Invalid email/password should be of 6 characters";
          }
        })
      }
      catch(e){
        console.error(e);
      }
    }
    else {
      this.alert = "Email and password required. Both password fields should match";
    }
  }
}

```

Home Page

```

<ion-header>
  <ion-toolbar>
    <ion-title>
      Home
    </ion-title>
  </ion-toolbar>
</ion-header>

<ion-content padding>
  <ion-item>
    <ion-label>Search Term</ion-label>
    <ion-input type="text" #searchTerm></ion-input>
  </ion-item>

  <div padding>
    <button ion-button (click)="searchTerms()" class="button button-block button-positive">
      Submit
    </button>
  </div>

  <div padding>
    <button ion-button (click)="lastSearch()" class="button button-block button-positive">
      Load Last Search
    </button>
  </div>

  <div padding>
    <button ion-button (click)="isSpeechSupported()" class="button button-block button-positive">
      Speech Supported?
    </button>
  </div>

  <div class="content" *ngIf="data" padding>
    {{data.itemListElement[0].result.description}}<br><br>
    {{data.itemListElement[0].result.detailedDescription.articleBody}}
  </div>
</ion-content>

```

```

import { Component } from '@angular/core';
import { ViewChild } from '@angular/core';
import { HttpClient } from '@angular/common/http';
import { SpeechRecognition } from '@ionic-native/speech-recognition';
import { AngularFireDatabase } from 'angularfire2/database'

@Component({
  selector: 'page-contact',
  templateUrl: 'contact.html'
})
export class ContactPage {

  @ViewChild('searchTerm') searchTerm;
  data: any;
  data1: any;
  searches: any[];

  constructor(private speech: SpeechRecognition, public http: HttpClient, public db:AngularFireDatabase) {}

  searchTerms() {

    console.log(this.searchTerm.value);
    this.http.get( url: 'https://kgsearch.googleapis.com/v1/entities:search?query=' + this.searchTerm.value +
      'key=AizaSyBNOF-hKaRYwGg781e9DEDhSv1YACWJWQ&limit=1&indent=True')
      .subscribe( next: (data) => {
        this.data = data;
        console.log(data);
      });

    this.http.jsonp( url: 'https://maps.googleapis.com/maps/api/place/findplacefromtext/json?input=Museum%20of%20Contemporary%20Art%20Australia&inputtype=textquery&fields=photos,formatted_address'
      .subscribe( next: data1 => {
        this.data1 = data1;
        console.log("ase");
        console.log(data1);
      });

    this.db.list( pathOrRef: '/search' ).push(this.searchTerm.value);
  }

  async isSpeechSupported():Promise<boolean> {
    const isAvail = await this.speech.isRecognitionAvailable();
    console.log(isAvail);
    return isAvail;
  }

  lastSearch() {
    console.log(this.db.list( pathOrRef: '/search' ));
  }
}

```

ContactPage · searchTerms()

App/Firebase Screenshots

User Registration

Register

Email test@test.com

Password

Confirm Password

Confirm Password:

REGISTER



Login

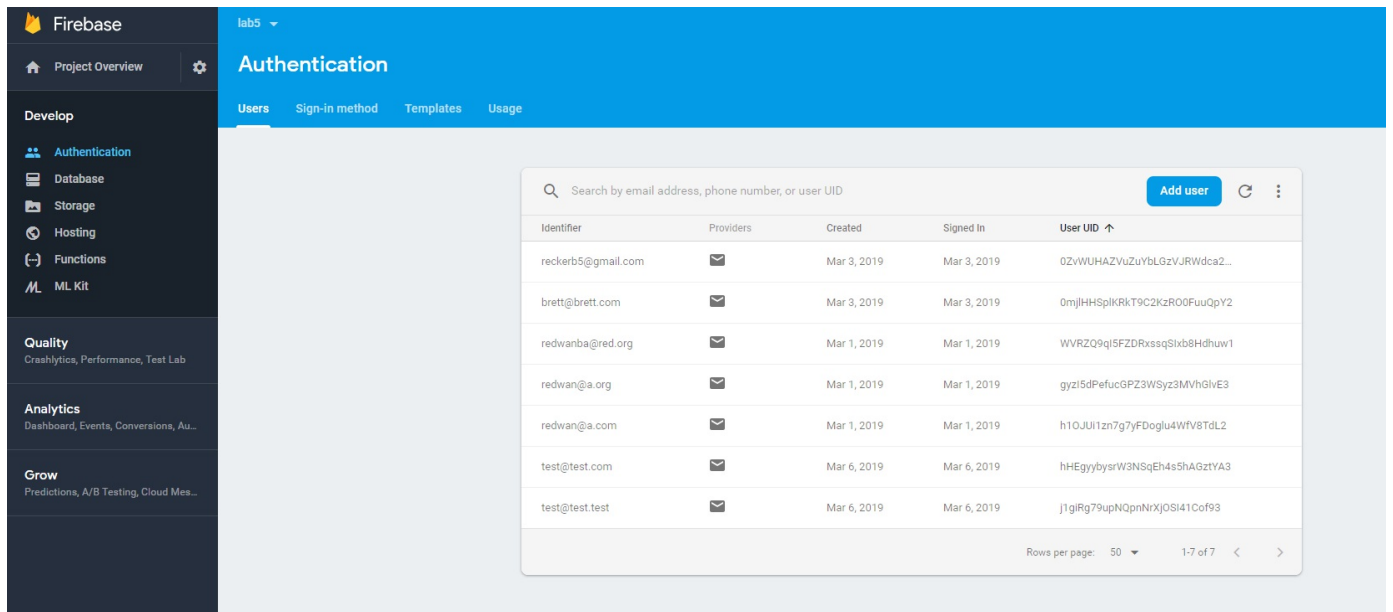


Register

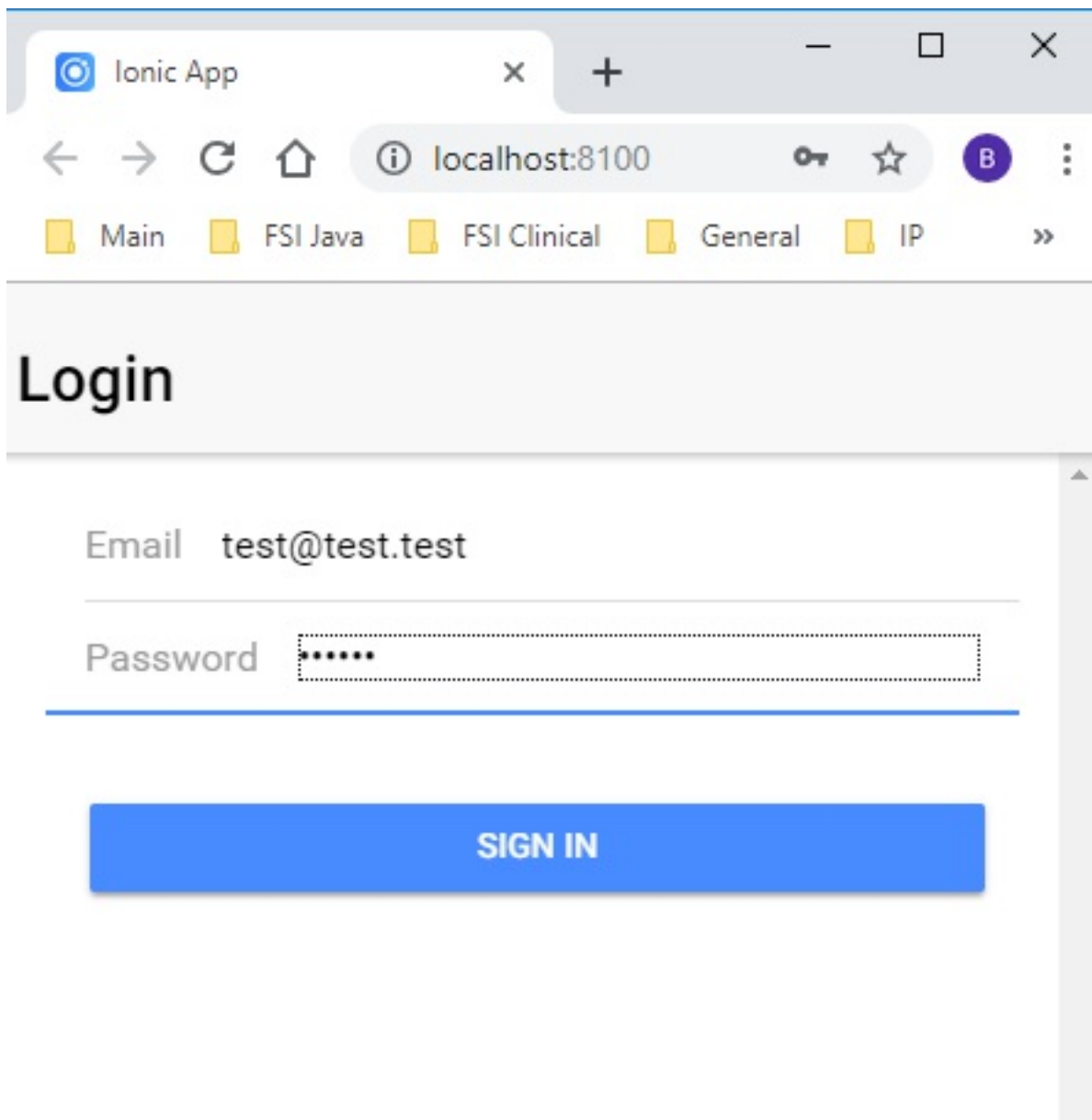


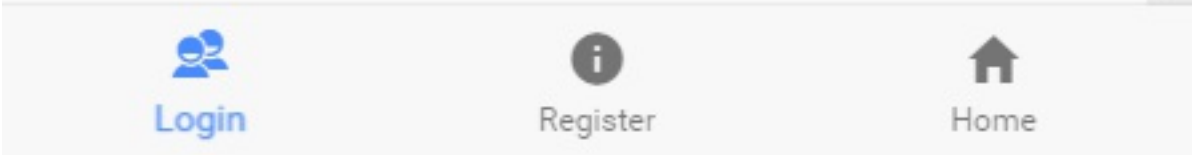
Home

Firestore Authentication



Logging In





Searching

Search Term Kansas City

SUBMIT

LOAD LAST SEARCH

SPEECH SUPPORTED?

Football team

The Kansas City Chiefs are a professional American football team based in Kansas City, Missouri. The Chiefs compete in the National Football League as a member club of the league's American Football Conference West division.



Login

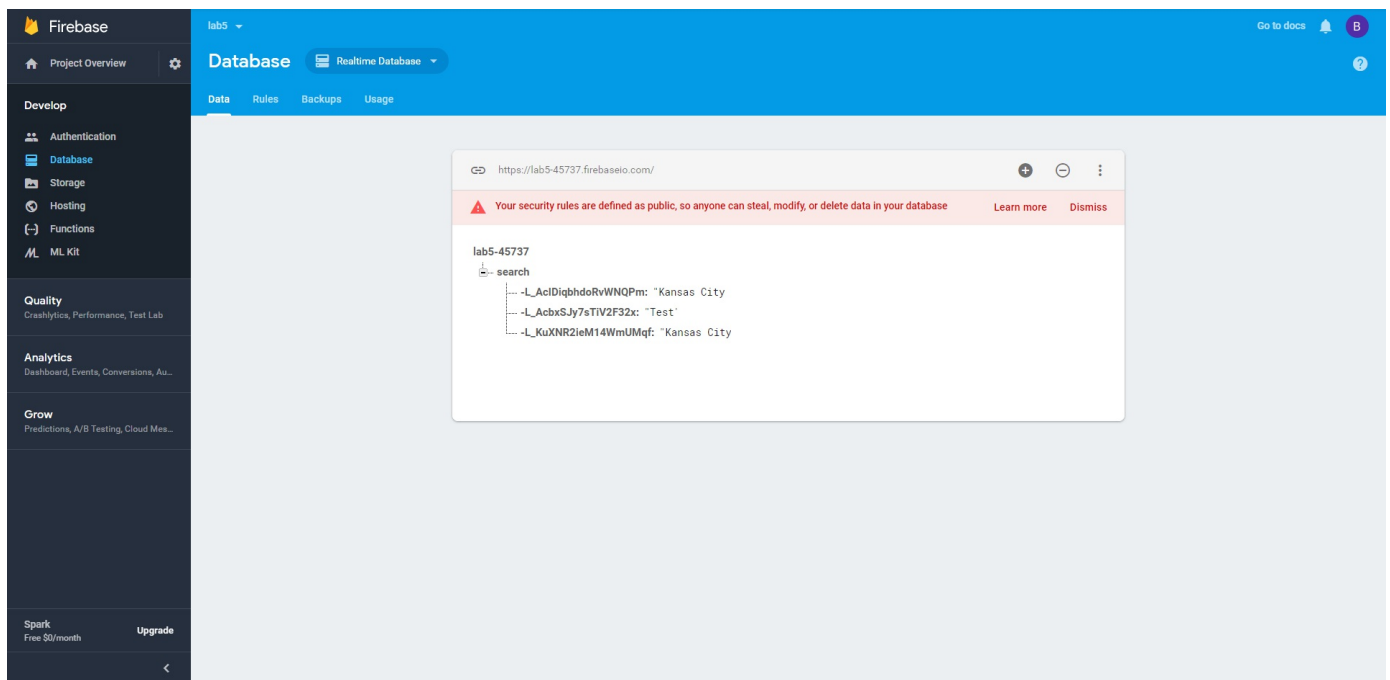


Register



Home

Storing search term to realtime database



Limitations

As stated above, I am just submitting what I have so I can get lab6 finished and get a good start on increment 2 of the semester project.