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## Project Info and Requirements

### Dependencies for the project

- Video processing dependencies
  - Opencv
  - OpenFace
  - eyelike
- Web UI requirements
  - NPM
  - Angular
  - jQuery
  - Bootstrap
- Database (Firebase) requirements
  - Firebase
  - AngularFire2

### Database Schema

We are using Firebase as a database to save all the information for this project. The data type is a JSON object. For this project the JSON format is as follows:

```
Application
  Users
    UserID
    FirebaseKey
  Files
    FileID
    FirebaseKey
    All_points
    Frame#
    68 points
    Point#
      x:
      y:
    Head Position
      Pitch:
      Roll:
      Yaw:
    Pupil Points
      Left Point
        x:
        y:
      Right Point
        x:
        y:
    Filename:
    Fps:
    Frames:
    Height:
    Id:
    inputLink:
    name:
    outputLink:
    width:

*** ":" means there is a value next to it ***
```

For an example refer to *sample\_data.json* under the “**Readme**” folder.

## Signup Page

Facial Detection

Log in

Create a New Account

First Name

Enter first name

Last Name

Enter last name

Email Address \*

Enter email

Password \*

Enter password

Confirm Address \*

Confirm password

Sign Up

## Login Page

Facial Detection

Sign Up

Log In to Your Account

Email Address \*

Enter email

Password \*

Enter password

Forgot password?

Log In

\*\*\*All the calls for OpenFace, Eyelike, ffmpeg, ffmpeg can be found under *index.php* file \*\*\*  
\*\*\*Database code can be found under **"src/app/home/home.component.ts"** \*\*\*