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### **Project Info and Requirements**

## Dependencies for the project

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

```
is a JSON object. For this project the see

Application
Users

UserID

FirebaseKey
Files

FileID

FirebaseKey
All_points
Frame#

68 points
Point#

x:
y:
Head Position
Pitch:
Roll:
Yaw:
Pupil Points
Left Point

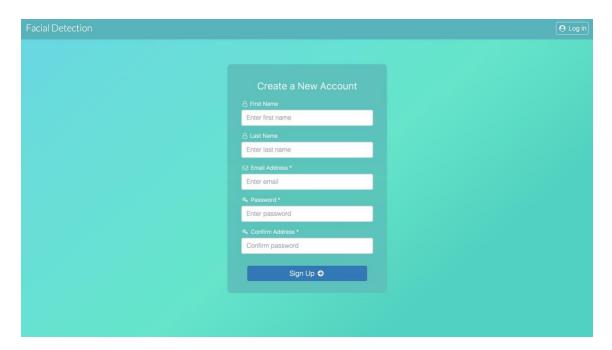
x:
y:
Right Point

x:
y:
Filename:
Fps:
Frames:
Height:
Id:
inputLink:
name:
outputLink:
width:

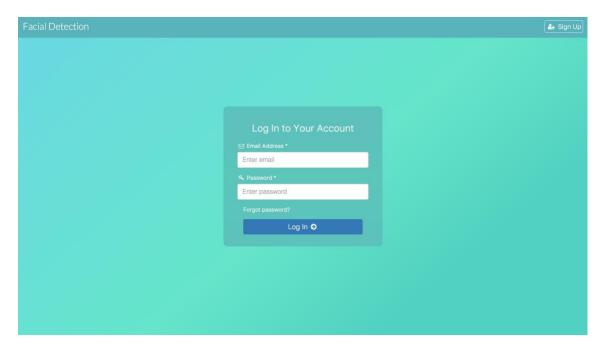
*** ":" means there is a value next to it ***
```

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

# **Signup Page**



## **Login Page**



<sup>\*\*\*</sup>All the calls for OpenFace, Eyelike, ffprobe, ffmpeg can be found under index.php file \*\*\*

<sup>\*\*\*</sup>Database code can be found under "src/app/home/home.component.ts" \*\*\*