
Smart Mirror
Team 4

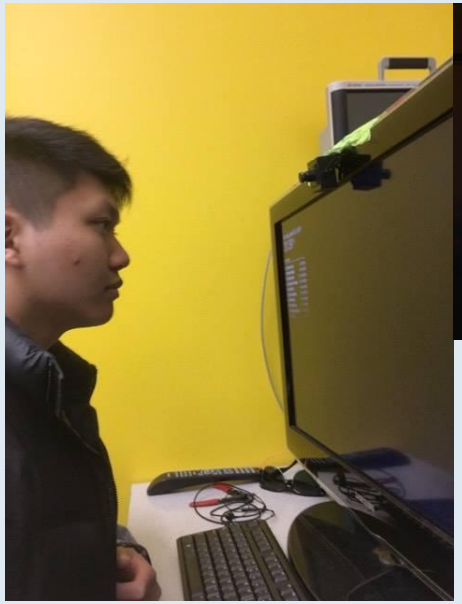
Goals

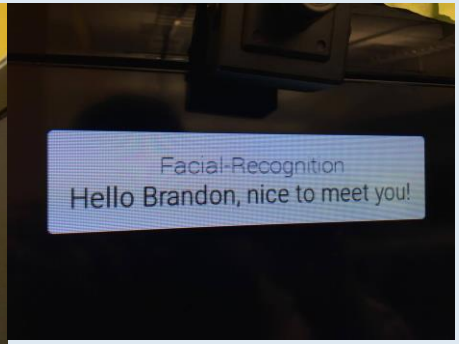
- Facial Recognition
  - Accurately recognize pre-established users
- Customized Profiles
  - Profiles set up through a web app
  - Profiles linked to facial recognition software
- Proximity Sensor
  - Turn mirror off if nobody is in front of it
- Gesture Sensor
  - Use sensor to enable profile setup
  - Incorporate pre-defined gestures

Current Status


Facial
Recognition

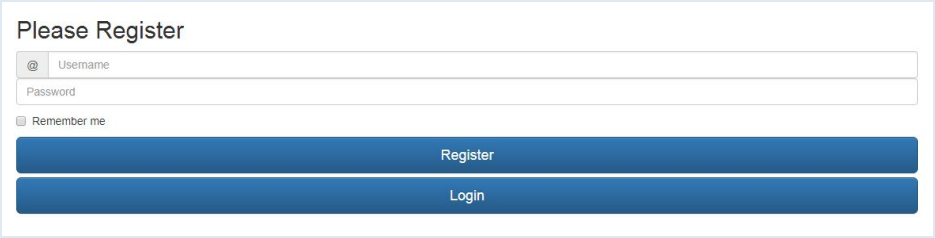
- Recognizes users with established profile correctly
- Usually recognizes new users as a stranger until profile is created

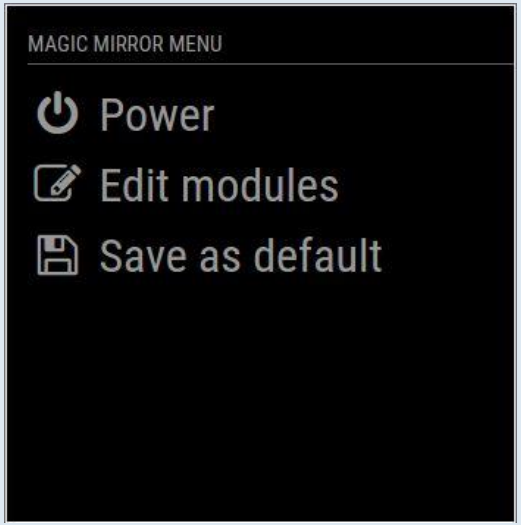





Web App

- Allows new user to register and create username
- Allows established user to sign in and control their profile





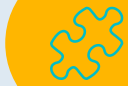
Proximity Sensor

- Successfully turns off mirror after a period of inactivity
- Will be configured to turn on the monitor if motion is detected in order to save power
- Senses up to 20 meters away

What's Left?

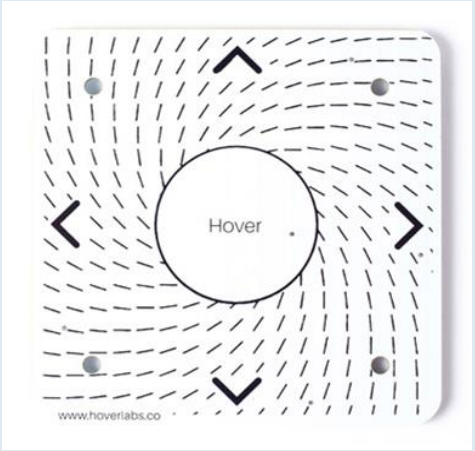
Facial Recognition /Web App

- Fine tune facial recognition threshold to remove false positives
- Integrate training seamlessly with profile creation
- Store user profiles after changes
- Connect profile, username, and pictures together



Gesture Sensor

- Finally arrived!
- Choose and implement gestures for mirror control
- Will use to take in user input to change the state of the MagicMirror



Construction

- Order acrylic and attach reflective film
- Design and construct a housing/frame for the mirror and its components

Thanks!

Any questions?

You can keep up to date with our project at

https://embedcapteam4.github.io/