Magic Mirror

Feature:

* User Authorization
  + Authentication process in Magic Mirror uses facial recognition technology to verify user identity
  + User's face is captured by a camera and compared to a pre-existing database of faces
  + Facial recognition technology identifies and measures facial features in an image
  + User Authorization is essential to protect sensitive information and ensure only authorized users have access
  + Implementation of User Authorization protects the project from unauthorized access and misuse
* Predict user emotion status
  + Facial recognition technology used to predict user's emotions
  + Camera module captures image of user's face and analyzes expressions to determine emotion
  + Predicted emotion status displayed on mirror, such as smiley face for happiness, frown for sadness, or angry face for anger
* Show motivational quotes depending on the user emotion status
  + Allows mirror to adapt content and recommendations to user's mood and preferences
  + Helps to improve the user's mood and overall well-being by displaying appropriate quotes
  + Creates an empathetic and supportive environment for users dealing with mental health issues or emotional distress
  + Can be combined with other features, such as facial recognition and user authorization, to create a comprehensive and personalized user experience
* Emotion based LED system:
  + Allows mirror to control LED strip with various color based on user mood
  + The system responds by changing the color and intensity of the LED lights based on the detected emotion. For example, if the user is feeling happy, the system might display warm, bright colors like yellow or orange. If the user is feeling sad, the system might display cool, calming colors like blue or green.
* Smart home security:
  + Use cameras to provide home security features, such as detecting intruders or identifying someone unwanted.
  + Captures unauthorized faces in terms of security.
* Remote monitoring:
  + Allow users to monitor their home from anywhere using a mobile app or web interface, with alerts sent if unusual activity is detected.