

A woman with long brown hair, wearing a yellow jacket, is smiling and holding a smartphone. A digital overlay of white dots and lines represents a facial recognition system scanning her face. She is also holding a blue credit card in her other hand. The background is a blurred indoor setting.

Face-Rekon

Facial Recognition for Mobile Payments

**Immanuel Joseph Antony
Russell Taylor**

The App

Face-Rekon is a mobile app for iOS and Android that provides facial recognition for mobile payments.

The app is written in React Native and uses the Amazon AWS Rekognition library for face detection and recognition.

Users may register new faces to verify future payments.

When a user makes a payment, the app validates the user's face against the already registered faces.

Verizon 4:02 PM 24%

Face-Rekon



Immanuel Joseph Antony
Russell Taylor

Verizon 4:03 PM 27%

Home

Face-Rekon

Make Payment

Register Face

Verizon 4:05 PM 31%

[Home](#)

Verification

Enter Payment Amount

\$0.00

Make Payment

Development

Development began with design and planning.

React Native was chosen for its cross-platform capabilities and similarities to Node.js.

Amazon AWS Rekognition was chosen for its reliability, accuracy, and for the opportunity to learn the basics of AWS.

The app was developed and deployed using Expo which facilitates testing on an Android emulator, iOS simulator, and live on any device.

Plans for Future Release

The app currently requires visibly opening the camera for face validation. A future release will process the image validation in the background.

The app currently allows the user to register and validate any face. Secure login is needed for face registration to prevent unauthorized access.

Minor user interface updates will be incorporated into future releases.