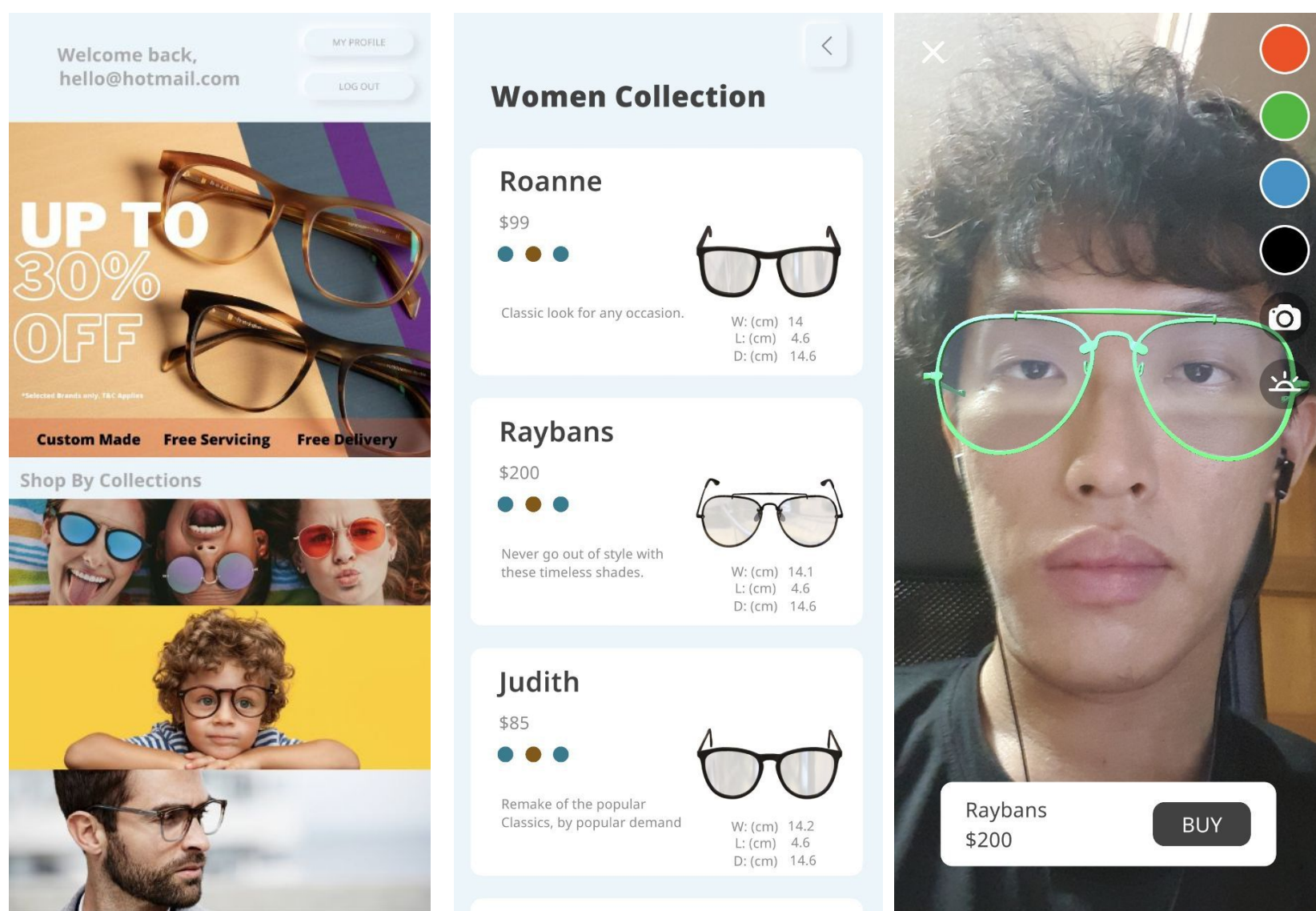# Augmented Reality Glasses Try-On Application

Intelligent Mobile Application for Android Devices

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Project Objectives

This research aims to implement an AR-based glass try-on application to enhance the glass shopping experience. The application utilizes AR face tracking to identify facial landmarks and project virtual glasses onto the customer's face. Various functions like a recommendation feature, screenshot feature and check-out functionality are included to provide users with a holistic shopping experience.

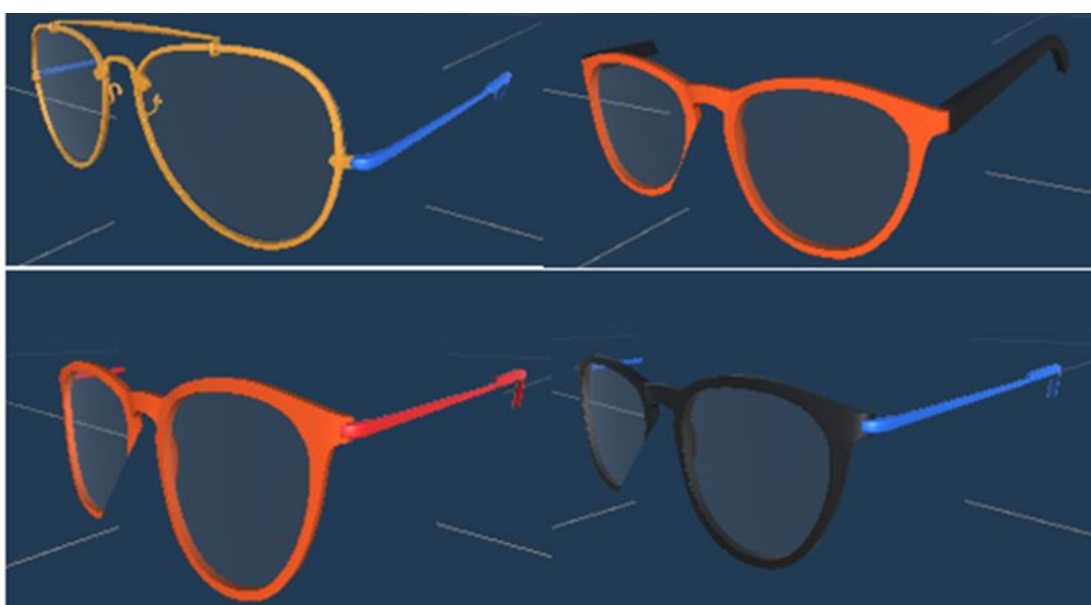| Login/Sign Up	Face Scanning	View Item in AR	Checkout
User needs to be authenticated to use the app	Face is scanned for measurements	Item viewed in AR can be customised by color and lighting	Items added to cart can be purchased via Stripe

Our Innovations

Creation of a face scan to obtain accurate measurements of the user's facial features, allowing for custom creation of products that fit perfectly on their faces.

Construction of an entirely new pair of glasses based on user's try on history, by piecing together the most recurring glass models.

Sunrise/Sunset effect, which uses a directional light to imitate sun's glow. This gives users a better look of the product in different light settings.