MAD QUIZ 2

Submitted by:

Zil-e-huma 21-SE-17

Submitted to:

Engr. Kanwal Yousaf

APRIL 21





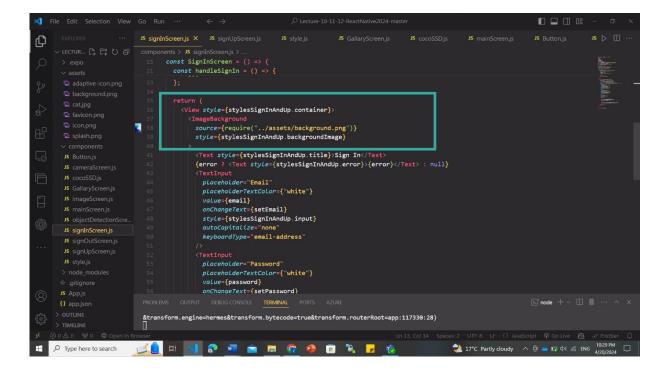
Question #1: Enhancing App UI and Integrating AI Model

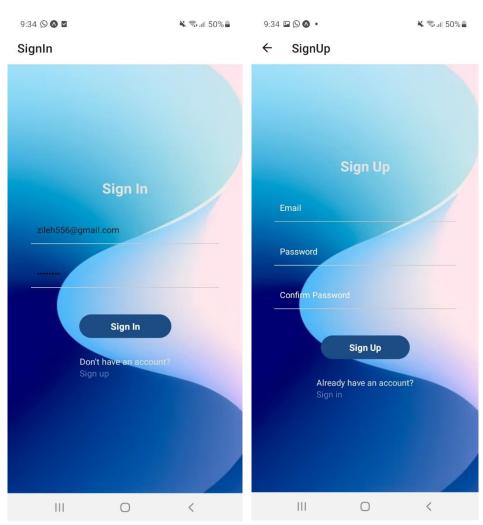
1,2,3. Code Reusable, UI Enhancement, Menu Integration:

Added a button component to make code reusable, rather than styling buttons for each screen again and again.

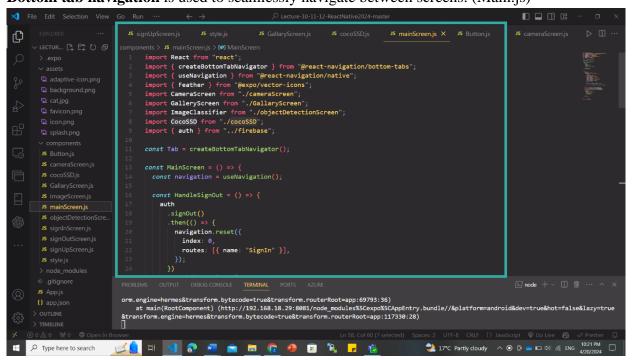
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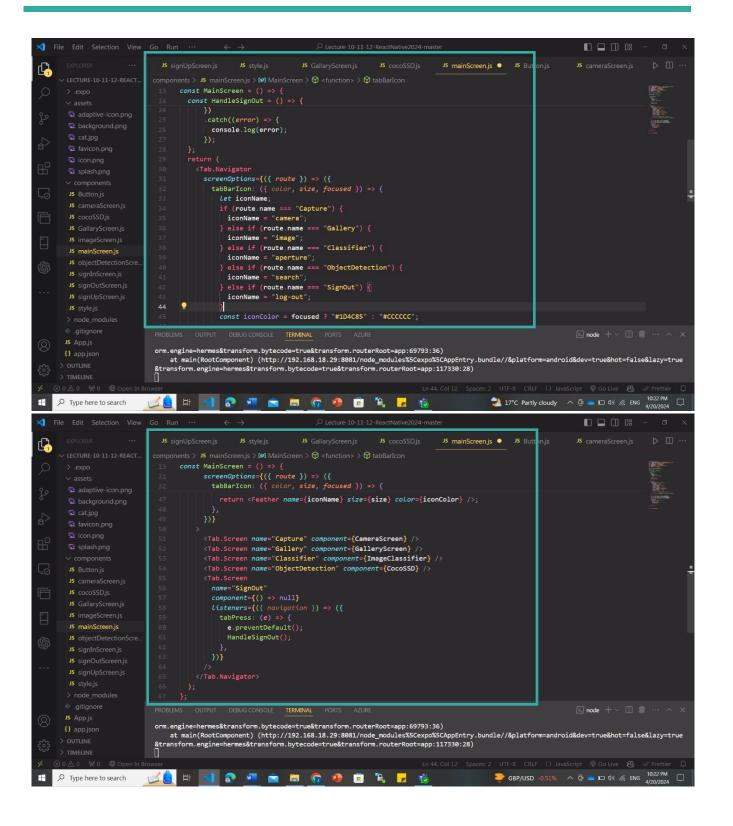
Added background image in signup and sign in screens to make it visually appealing



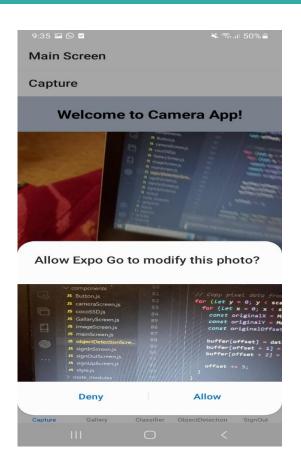


Bottom tab navigation is used to seamlessly navigate between screens. (Main.js)

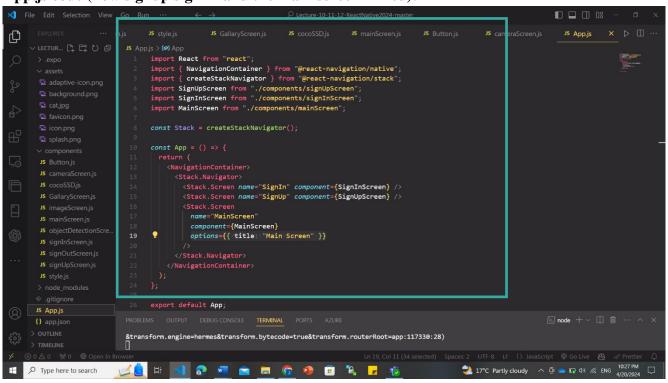






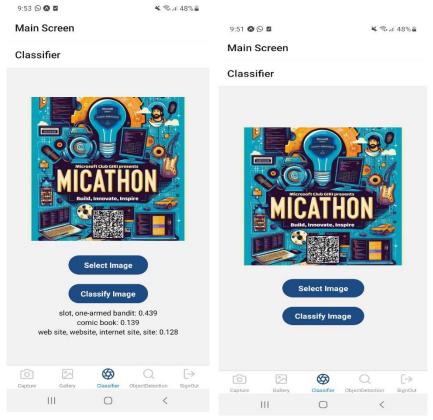


App.js code (how signup sign in and the main screen linked):



4. AI model Integration:

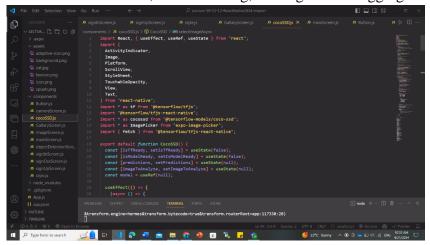
Enhanced version of already present AI.

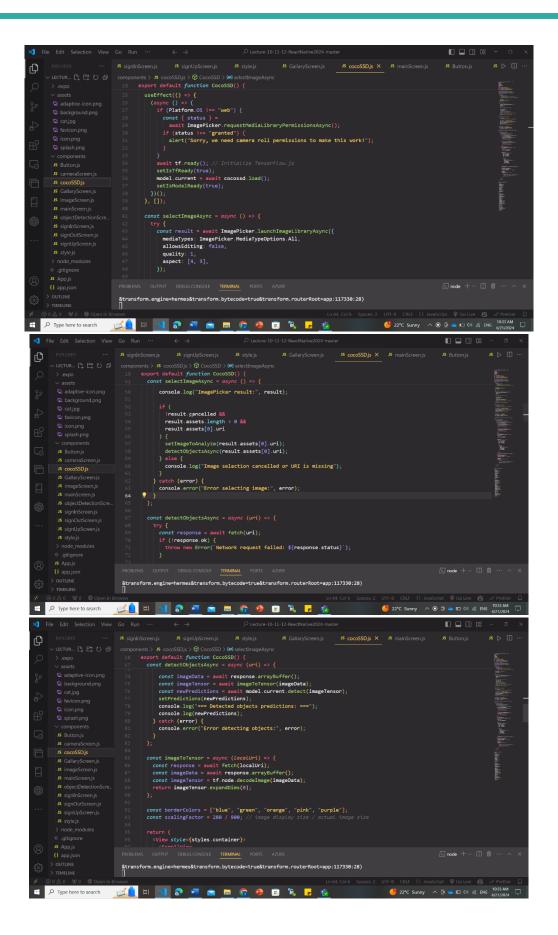


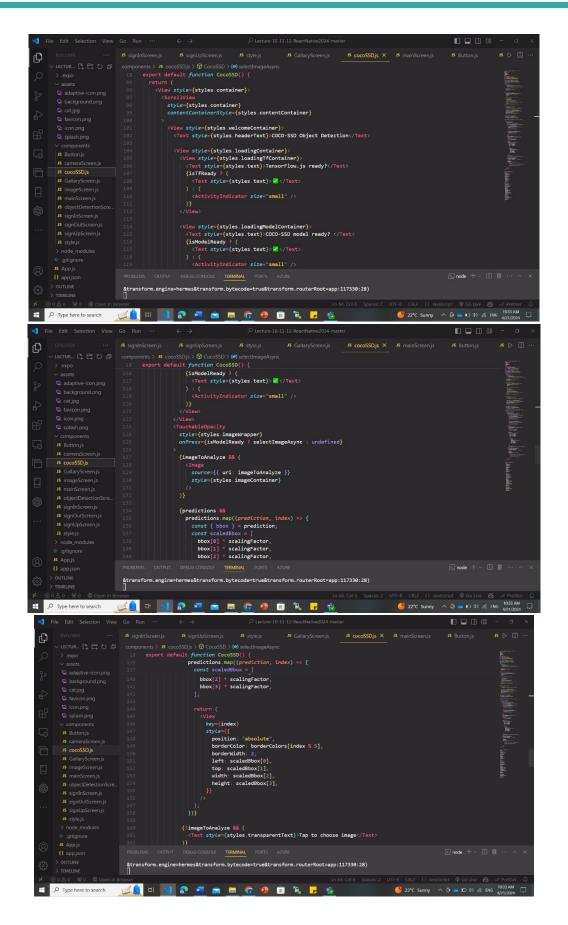
A new AI model:

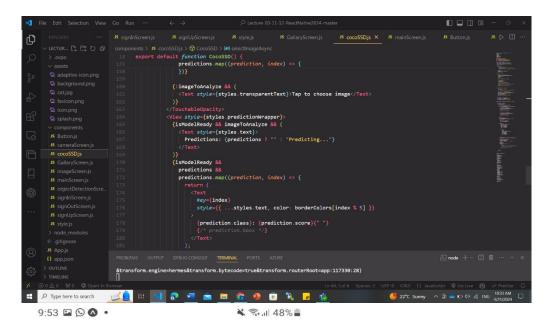
I implemented coco-ssd a pre-trained tensor flow object detection AI model.

This React Native component uses TensorFlow.js and the COCO-SSD model to detect objects in images. It initializes TensorFlow and the COCO-SSD model, then allows users to select an image from their device using Expo's Image Picker. After an image is selected, the code converts it into a tensor and uses the model to detect objects, returning a list of predictions with object classes and confidence scores. The component displays the selected image, drawing bounding boxes around detected objects, and lists predictions with object classes and scores. It includes status indicators for TensorFlow and COCO-SSD readiness, error handling, and logs for debugging.



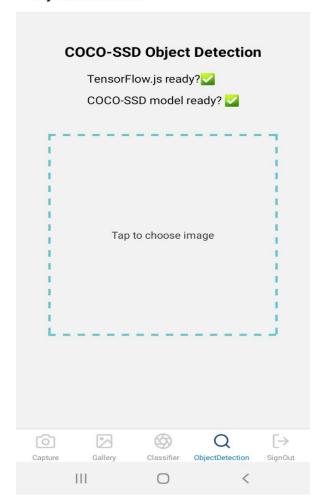






Main Screen

ObjectDetection

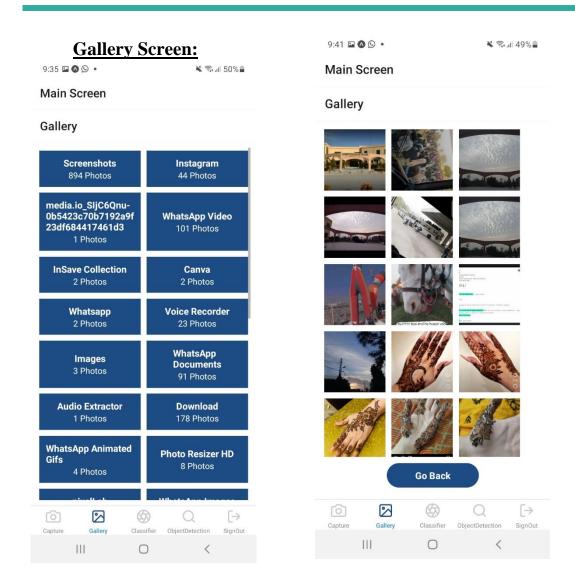


9:53 ➡ ♥ ◆ • Main Screen

ObjectDetection



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Description:

This project is an application that begins by requiring users to sign up or sign in to access its features. After successful authentication, users can navigate through several screens using a bottom tab interface. The key screens include a camera screen for capturing and saving photos, a gallery screen to view saved images, an object classification screen using a TensorFlow-based AI model, and an object detection screen utilizing the COCO-SSD TensorFlow model. The app also includes a sign-out button to allow users to log out when needed. The design ensures a seamless user experience with intuitive navigation and integration of AI-powered image processing capabilities.

GitHub Repository Link:

https://github.com/Zil-e-huma01/MAD-Quiz02_AI-model-and-firebase-storage