

ABSTRACT

This project creates an application that utilizes the Wear OS interface, which is an important part of the 'TransTRACK DriverCare' system, with the main goal of enabling real-time health monitoring of drivers through wearable devices. The application developed using Android Studio aims to integrate and visualize multi-sensor data such as heart rate and other sensor data on the driver's smartwatch. The development of the user interface for this wearable application focuses on ease of use and optimal readability, thereby minimizing distractions and potential confusion for users. It is expected to produce a Wear OS frontend application prototype that is ready to be tested for its capability to present multi-sensor data to support driver monitoring.

Keywords: Wear OS, driver monitoring, multi-sensor data, Android Studio, user interface and driver safety.