XPAD IMPLEMENTATION FOR ETTS

TrackSchoolBus

Domain

Vehicle Fleet Management for school buses

Why Driver Console XPAD Implementation

XPAD is a Mobile Data Terminal(MDT) specially designed Android tablet with integrated LCD display for trip navigation and other details. Using Driver Console with tablets had limitations. XPAD integration resolved lot many of these issues

- Exclusive Video facilities

- Includes external card swiping

- Directly connected with MDVR – giving access to peripherals such as camera Alarms, seat belt sensor, etc

- Additional external GPS for improved reliability

- Unlike tablets that need external charging, the Xpad works on vehicle power

- **All in one mobility solution**, no need to have separate screen for CCTV installed inside and outside of the vehicle. Tracking, attendance, alert management, trip management etc can be done using XPAD.

- Enables iOT and connected vehicles

Objective

To enable complete control of the individual vehicle's system from a single interface, unlocking the true potential of Driver Console. We had a time span of 1 month

What We Did

Our backend team worked with the Streamax 10.1 inch XPAD utilising its ability to support secondary development for around 20 days.

We simulated the vehicle environment digitally and ran several tests in-house to ensure all functionalities were working as desired. After numerous test runs, we were able to successfully demo the integration to ETTS team. The XPAD is fixed

inside the vehicle nearer to driver seat enables IOT and received data (vehicle location, student attendance, alerts historic movements etc) .
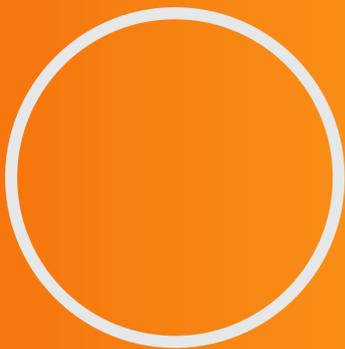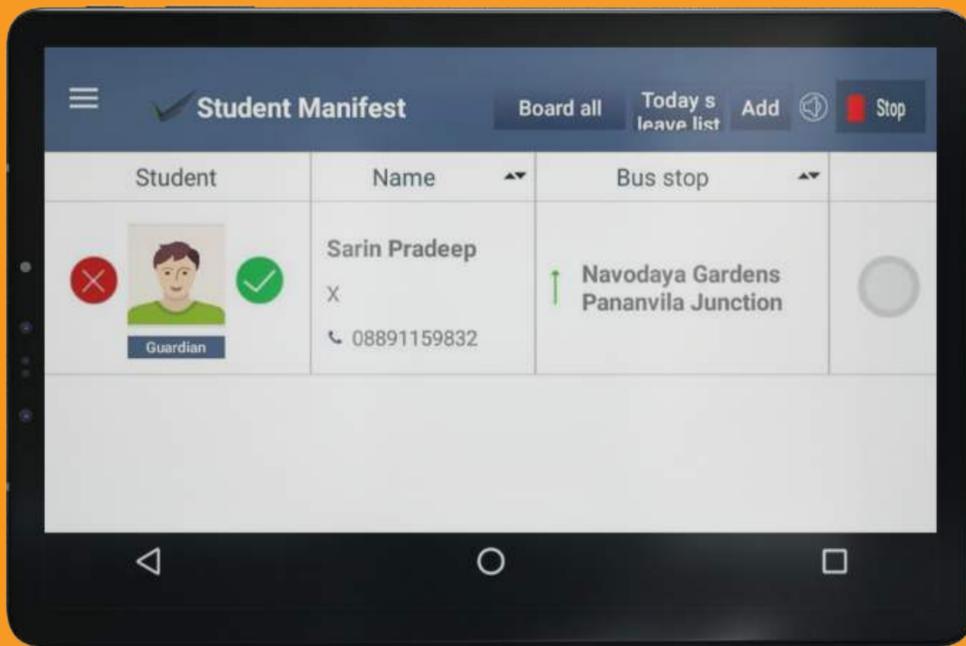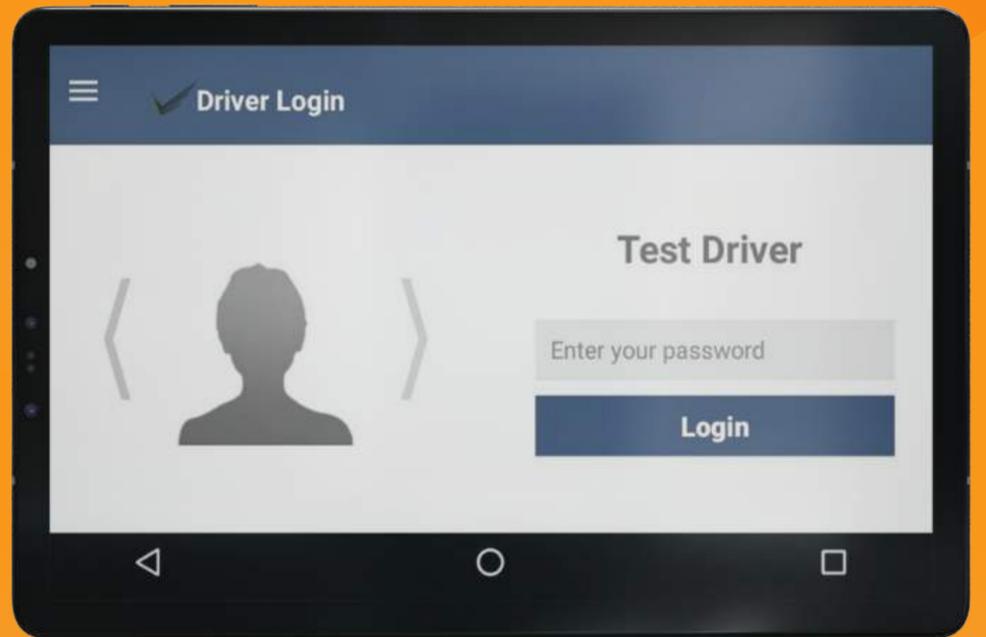

Figure 1 - 10.1 inch Touch Panel XPAD

Resources

2 Backend developers worked on the project Full time for close to a month apart from the services of 2 testers during the software testing phase.
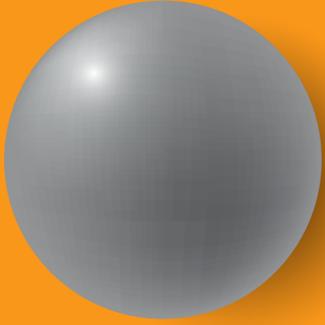
Achievement

The XPAD -integrated Driver Console was successfully implemented on 52 Vehicles. We are working with ETTS on large-scale fleet management systems with long-term implementations in mind.

Driver Console UI Screenshots

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