**Project Name :** ET –CPS HUB

Electronic Ticketing Code Payment System Hub

**Problem Statement and mixed with introduction:** In India, many Indian people use public transport every day. Buses and railways are important and major transportation systems. It has been used by millions of people in their daily lives. In rail transportation, there is an electronic ticketing system, but with respect to bus transportation, there is no electronic ticketing system. we find a sparkle here, why can't we design a payment for bus transport? Electronic ticketing system offers hassle-free journeys for everyday users.

**Solution we came :** Having done a lot of polling, we conclude with a few thoughts. Our solution is to create an application which runs on both android and ios platforms. In our solution, two things are there, one is from the conductor side, another from the customer side, Both use a different app, but they mostly have similar functionality with little changes in the codebase. The conductor part is generating a QR code or generating code. The customer should pay by scanning the QR code or entering the code to pay. We called this code generation and payment using the code as the code format payment system. Minimum code length 5 and max increase to 7-8. Our app also have features like wallet, recharge code. Transcations only done with wallet not with upi or other payment system.

**framework and technologies :** React native - For building the applications for both android and ios platforms, javascript, CSS - it is the language we used to create our project,expo-it is used for testing and creation of the app, firebase- for authentication and storing information, stripe payment - for recharge code payment.

Adobe, figma and ,canva for designing purpose.

**My part in this project(contribution):** I am a UI/UX designer in this project, I made a design called boxy flow. The design inspirations got from Android 12 and slice application. At that time of design, Android 12 was quite popular and it is different from earlier versions of Android. So I picked up some material UI for the app. Slice I have chosen their simplicity and makes focusing on what users need. My design is mainly based on shapes with curve borders to match with ios and Android 12. As a UI/UX designer, I have to design an efficient UI/UX design .This is because most app users prefer an app that is visually appealing and user-friendly over one that has great functionality but with a less attractive appearance.

**Advantages:**

* **Ease of payment**
* **QR Code**
* **Code Format Payment System**
* **Wallet payment**
* **Security**
* **Data Analysis**

**Disadvantages:** Need conductor for generating qr code and upi is not supported in expo. **(Tell disadvantages only if they asked otherwise no need)**