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REVA HACK</> 2021

Elevator Pitch

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BusPay

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Overview

As local buses are one of the biggest transport lifelines for daily commuters in cities, we are still using cash payments and most of local transport systems owned by private or government entities have not entered the digital bubble yet which is a drawback to our DIGITAL INDIA'S vision. This is not the case for long distance bus travel as it has more digitally sound features such as ticket booking, live GPS feed etc. through apps like red bus and more. So, we are here to bring **Cashless payment systems to local buses** with our app and potentially solve problems like bus availability at a particular bus stop through collective information tracking, paperless invoices etc.

Goals

1. **Cashless payment system for local buses:** We provided cashless payment through our app wallet, UPI, credit/debit cards and generate digital invoices.
2. **Live Feed bus Tracking:** By using the collective data by the users at the time of ticket booking, we can accurately track bus and provide the data to the required user waiting to be picked up. This eliminates the cost of extra equipment like GPS trackers.
3. **Bus Management System:** This is our furthestmost goal which can help small businesses who privately own buses to manage their bus through digital features like cashless payment, live tracking of their bus, record of bus maintenance and rerouting of buses to people dense bus routes for larger income.

Working Methodology

As an end user, when a person boards a local bus he can scan the QR Code present on the bus through our app which fetches the bus Stops present on that bus route from our database and provides him the option to choose his end destination with the price and number of tickets required. Then, it is redirected to payment page for various digital payment options. After successful payment, a receipt is generated with a unique booking id which can be produced as proof of payment to the conductor.

Specifications

- FLUTTER framework for front-end android/iOS app development.
- FIREBASE for backend data storage, retrieval, and updation.

Links and other Information:

- Video Link: <https://youtu.be/1e-KBOz9HGU>
- GitHub repo: <https://github.com/darsh0230/BusPay>
- Apk: <https://github.com/darsh0230/BusPay/releases/download/BusPay/BusPay.apk>