**Team Name:** Bloody-Buggers

**Project Title:** G-Bus

**Project Scope:** To facilitate passengers by introducing the digital boarding pass(es).

**Project Objective:**

* To simplify and make more convenient travel without coins.
* This project is meant to reduce the conflicts between the conductor and passenger.

**Project Specifications:**

* When buying boarding pass(es) amount is directly deducted from the B-Wallet.
* Recharging B-Wallet is simplified using G-pay, Paytm.
* Amount deposited in a B-Wallet is valid for lifetime.
* Travelers list is projected in the conductor application and that should be refreshed in each update.

**Final Outcome:**

Mobile applications for the both conductor and passenger to check and purchase the boarding pass(es) respectively.

**Modules used,**

* B-Wallet,
* B-Card,
* Payment,
* Check balance,
* Recharge,
* Login/ sign-in,
* Sign-up,
* Scanning QR code,
* Destination pointer,
* Fine charger,
* List projector

**This can be achieved by,**

Dividing the application into two parts,

1. Passenger application
2. Conductor application

Categorizing passengers into 2 types,

**Category-1**: Mobile users

**Category-2**: B-Card users

**Category-1 (mobile user) passengers can,**

* Able to get their boarding pass(es) using the G-Bus application.
* Able to do the payment through the B-Wallet without involving other bank transactions.
* Easily recharge their B-Wallet by G-Pay, Paytm and using other UPI transactions.
* Also be able to recharge for the B-Card users using their unique ID.

**Category-2 (B-Card user) passenger can,**

* Able to show their B-Card to the conductor and the conductor should provide a boarding pass(es) (when they having the sufficient amount in the B-Wallet).
* Able to recharge their B-Wallet using the other G-Bus mobile application users and they can also recharge their B-Wallet from the conductor (based on the availability).
* Able to check their balance amount in the B-Wallet by making a query to the conductor.

**Conductor can able to,**

* Check the passengers list who are currently travelling in the bus.
* Update the current location in each and every stop.
* Recharge for the category 2 passengers based on their availability.
* Fine the passenger if they are breaking the rules.

**Team members:**

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**Conclusion:**

By this project, passenger can easily travel by without carrying coins. This project leads the government to make more convenience to the government bus users. We are moving one step ahead to reach the digital India.