AUTO-MA3 SYSTEM

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Due to the technological advancements in several areas and systems being developed into smart systems, we saw the need in systems improvements and innovations in Transport Sector especially the Public transport (Matatu). This was based on three main reasons;

- Public transport has been **insecure** in the recent times especially in long distances.
- There has been a lot of **time wastage** especially in seasons where there is irregular availability of the passengers.
- In the **informal sector,** these businesses (matatu) are seen as minial and lack the technological spur to grow.

According to our know-how, no innovator has developed such a system and hence we seek to offer innovations for this sector to facilitate much needed boost to growth. As the name suggest, this system is developed to improve on technology and counter th e problems in our matatu industry and any other place of great relevance in the application of the system.

The system works by the admin setting the vehicles on the queue, the number of passengers per vehicle and other details that concerns a particular vehicle. Though the web application system, the client is able to find the relevant details of the vehicle that he/she needs. One the passenger books a seat, the system automatically sends the relevant details to the client including the vehicle details, the seat, destination, charges, and other relevant details as preset by the system admin. Once the client has a reservation, the system sends a live update concerning the state of the availability of the passengers or according to the time set to give the updates. According the inbuilt algorithm, when the system notices the abnormal behavior i.e the sudden rise of the number of passengers, the system immediately alerts the passenger.

With the advancement of the system, Auto-ma3 is able to support USSD technology for ease access be any kind of passengers with or without a smartphone. With the USSD, the passenger can set and check all the details that he needs. Since the system is supported by powerful backup, in case of any inconveniences, the passenger can have a genuine follow up.

The major **Advantages** include;

- **Time** is saved for the passengers instead of waiting in the stage for the all day.
- The powerful **database** provides all data concerning the passengers and the Saccos hence accountability and integrity guaranteed.
- **Security** is guaranteed since all travelling passengers will have to provide their phone numbers, ID numbers, or any other form of identification i.e police tracking.
- The system supports other **analysis** from the data collected hence helping the saccos to improve on their services.
- **Quality** of services is guaranteed due to positive competition.
- Receipts can be printed and produced for the passengers, drivers, and other parties concerned.