EZ ROUT

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EZ ROUTE

Introduction :

- In public transit system particularly for bus commuters, many face difficulty in knowing the exact arrival time of busses in bus stop and bus routes. So people often relay on others or applications for guidance.
- To address this issue we as a team aim to provide real-time bus location and the approximate arrival time of the busses in each and every bus stop, irrespective of the literacy level people can transit independently.

Problem Statement :

- In the bus transit system, accessing real-time bus location and arrival time without any application is complicated, which causes delay in ones day to day workflow and unnecessary confusions regarding bus routes.

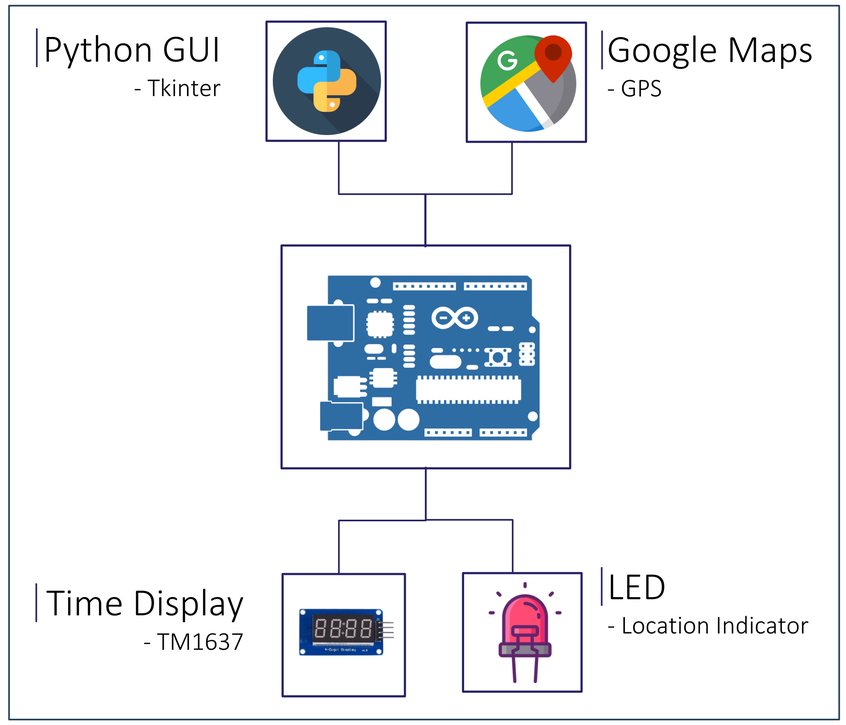
Solution :

- To address the complexities of real-time bus information, we propose installing cost-effective time display modules (TM167) at stops, showing approximate arrival times. Additionally, static route maps with LED indicators will display current bus locations.

Technology :

- Arduino IDE
- Python GUI
- Google
- Google Maps

Architecture Diagram :



Applications :

- Enable commuters of all literacy levels to access real-time bus information independently, enabling confident and self-reliant transit decisions.
- Provides easily accessible bus related information in each and every bus stop, reducing waiting time of people.

Future Scope :

- In future by using AI technologies we can calculate the accurate speed of the bus, analyze the current traffic situation and route which the bus take and calculate more precise and accurate arrival time.
- We can also display the number of seats available in the bus and inside every bus we can install displays which indicate the time to reach the upcoming stop.

References :

- Bus Timing Article : dtnext.com
- Bus Schedule : mtcbus.tn.gov.in
- Application : Chalo
- Books : GUI with Tkinter

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