SMART RICKSHAW

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PROBLEM DESCRIPTION

Our project deals with the rickshaw pullers in Dhaka, Bangladesh. They constitute a large part of the urban poor and consequently face challenges in terms of health, income, social fragmentation and crime.

The cycle-rickshaws are one of Bangladesh's most important modes of transport. According to government estimates, they contribute one-third of the total value-added in the transport sector. There are probably more than 750,000 of them, and they employ over one million people.

But the problems are:

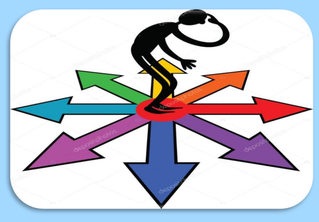
- Most of the time they don't get proper fare for their labor
- Sometimes there grows a clash between rickshaw puller and passengers
- It wastes a lot of time

OBJECTIVE

- Smart Rickshaw is such an idea which will help both the passenger and the rickshaw puller by defining the exact fare as per distance, weather, amount of load carrying and condition of road
- A display monitor with on and off button is used to show the fare
- The fare with distance and agree/disagree decision will be stored in the EEPROM of Arduino

USER BENEFITS

- No need to settle rickshaw fare of any unknown distant places. Rickshaw fare will be calculated as per distances



- No wasting time for bargaining to settle rickshaw fare of known places

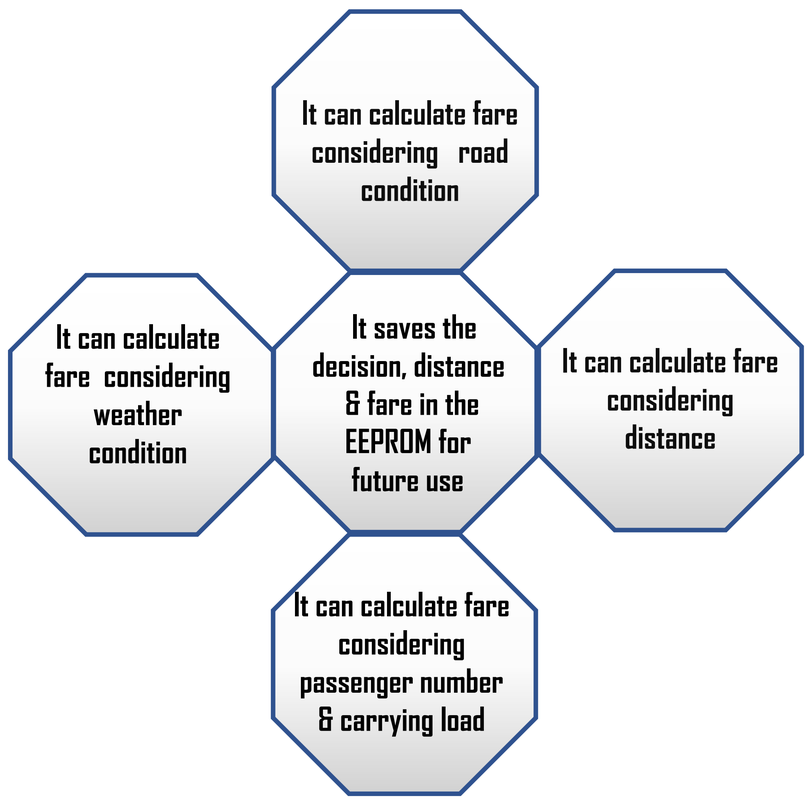
- Since many factors are considered, payment method is reasonable for the rickshaw pullers for their physical labor

- If Govt. set rules of using this rickshaw e-meter, customers cannot refuse to pay the fare

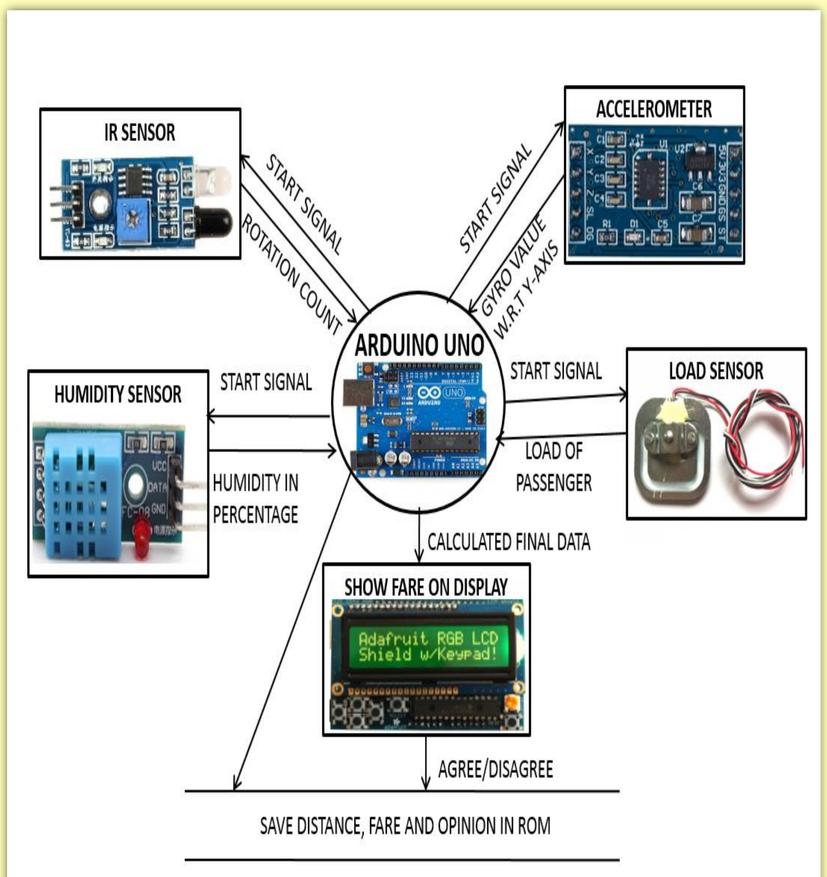
TARGET GROUP

- Rickshaw pullers of Bangladesh
- Common people of Bangladesh i.e. passengers

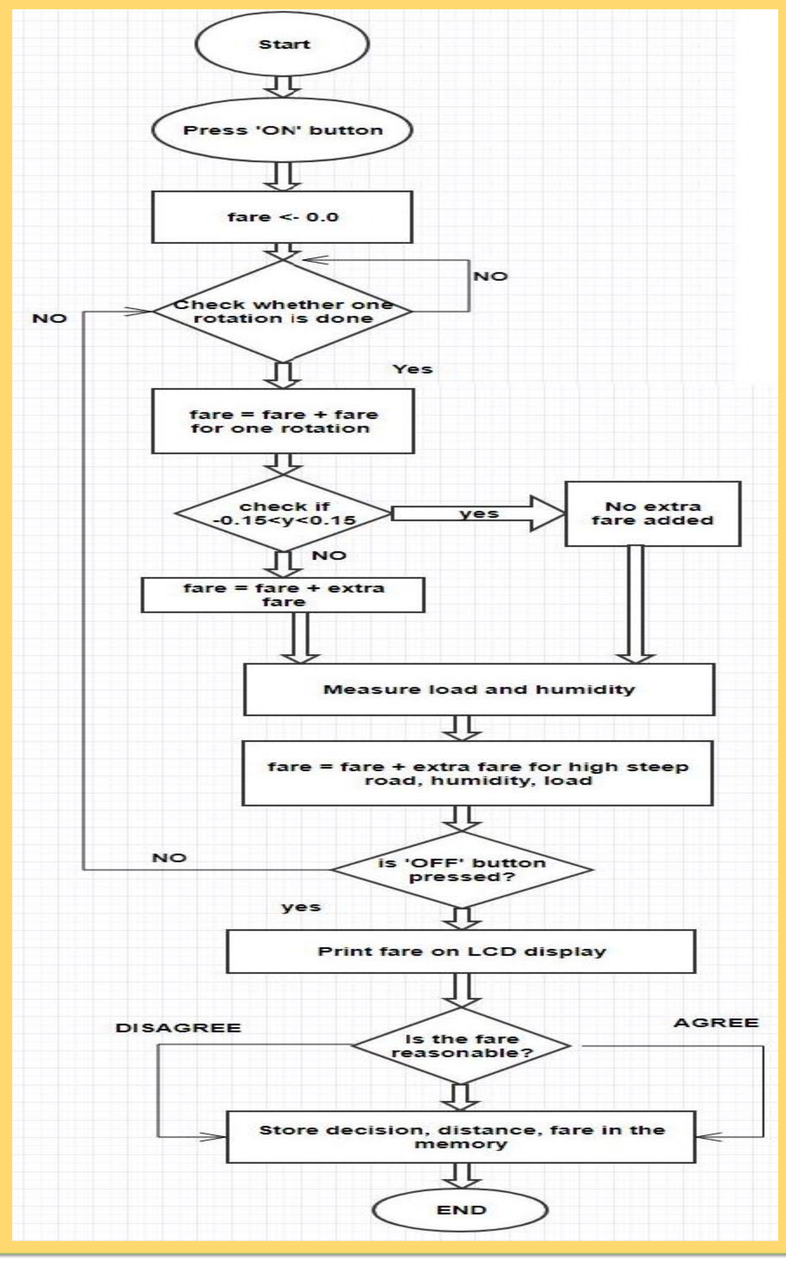
FEATURES



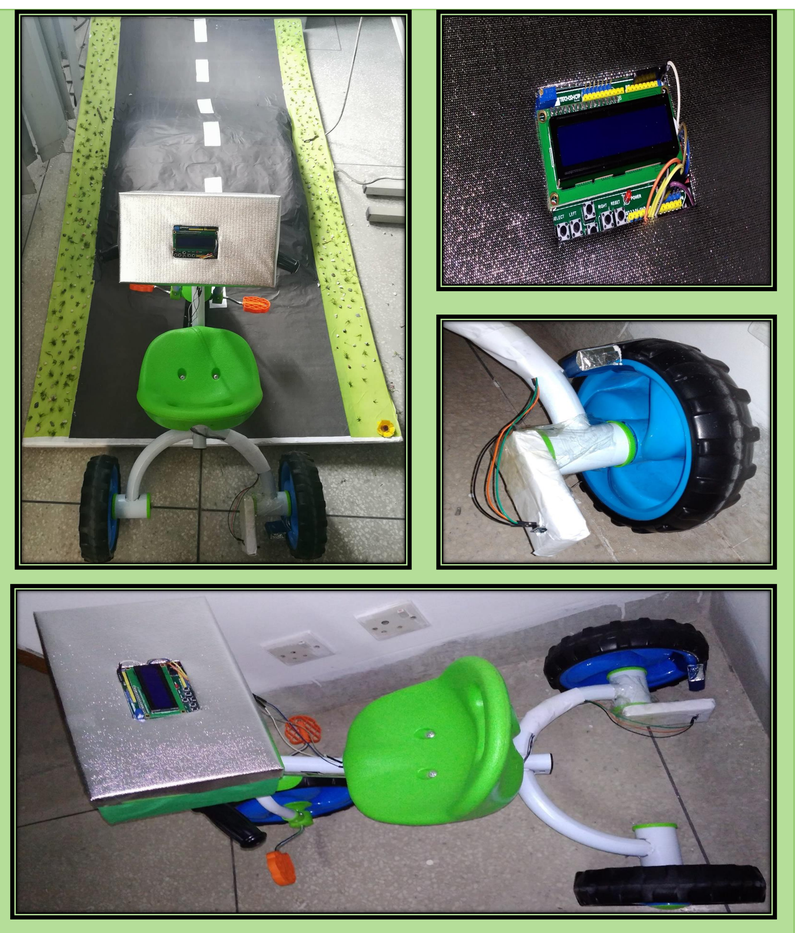
PROPOSED SOLUTION



FLOW CHART



PROJECT MODEL



FUTURE WORK

- To calculate accurate value of load of passengers and extra goods carried on rickshaw
- To calculate rickshaw fare exceptionally during rush hour and traffic jam
- To add external memory to our system to store full information of a ride along with feedback of rickshaw pullers
- To make system wireless

CONCLUSION

Labor is the most important asset of the rickshaw drivers and is directly or indirectly related to monetary exchange value through wage employment, self-employment or the production of goods and services. This automated rickshaw fare system will not only give a calculated fare, it will also will also give justice to the passengers and the rickshaw puller by giving the right fare.

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