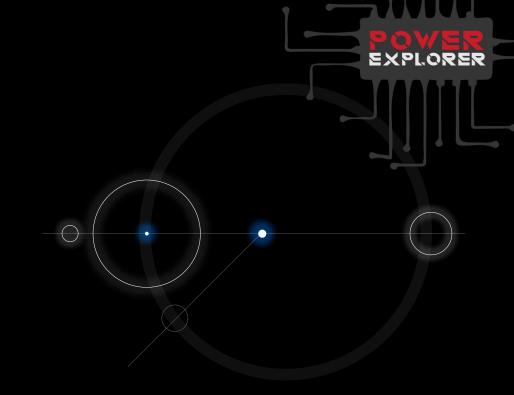


The motivation behind our project is an attempt to make an embedded system based device which makes the passenger's journey even safer and more secure. Alert then before Mechanical and other disorder. Get notified with location during accidents and hospitalized injured people them rapidly. This product handles engine overheating alert, smoking alert, Alcohol detection to detect drunk driving. Vehicle Crushed detection, alert when gyroscopically problem occurs. During any unwanted occurrence occur this device gives a text with reason of accident and GPS ((Global positioning system) location to predefined number such as police stations and hospital. Now we upgrading it we installed IOT (Internet of things) on it so it will be upload real time data to server, we can track every vehicle.



BACKGROUND

PROBLEM STATEMENT (Transport System)





Unrecognized Driver



Drunk Driving



Run Expired Vehicle



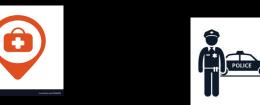
Vehicle robbery's



Women harassment



Over speed driving



Delayed hospitalized system



Lost vehicle tracking



Delayed police service



Unmonitored vehicle



No Burn Alert



Illegal vehicle



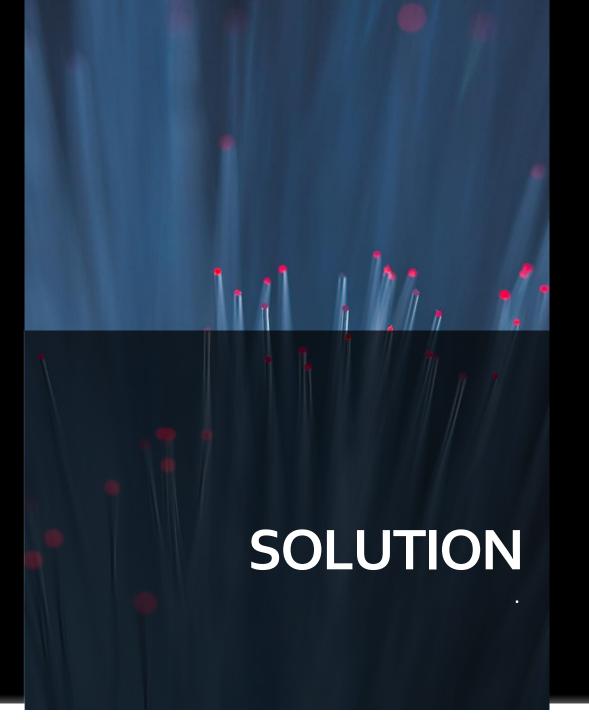
Human / animals detection

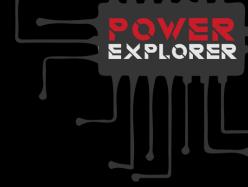


Delayed toll collection

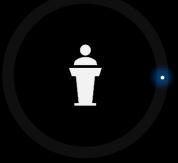


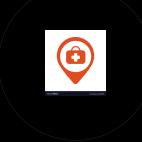
Unmanaged transport system







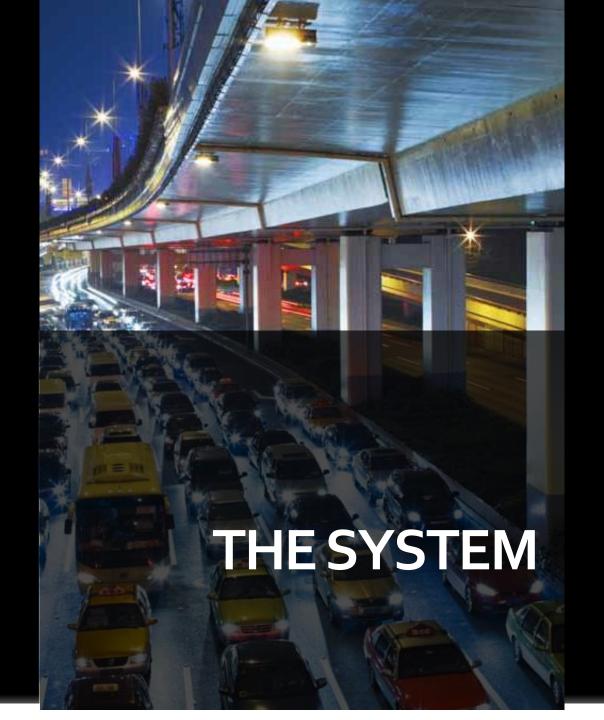




Prevention

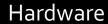
Real time Detection

Emergency Aid









A hardware that Detect information from sensors and sent information to server



Web

Database
A real-time database store data real-time and web app for monitor the hole system.



Mobile Apps

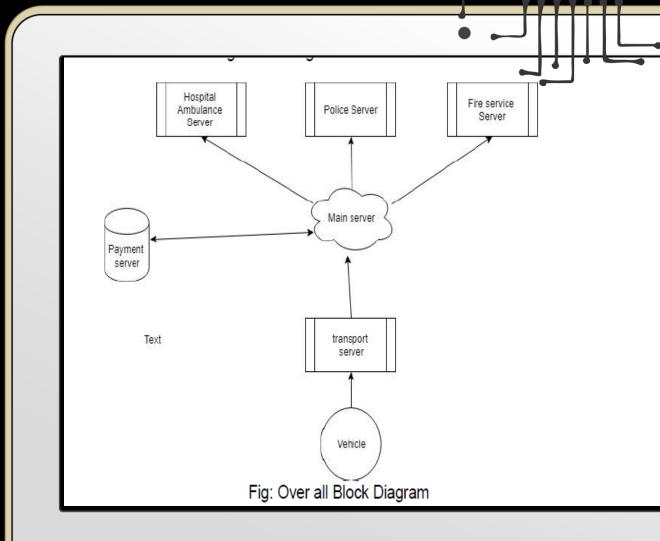
A smart apps for user. police, fire service, and hospital authority for detection and notify administrator.



SYSTEM BLOCK DIAGRAM

FIRST DRIVER NEED TO PUT HIS CARD TO VEHICLE FOR DRIVER RECOGNITION IF DRIVER IS VALID VEHICLE WILL START.

IF GAS LEAKAGE, FIRE, EMERGENCY BUTTON PRESSED DEVICE WILL NOTIFY OUR CLOUD SERVER. SERVER GIVE A WARNING NOTIFICATION TO NEARBY POLICE STATION. BY USING POLICE APP POLICE CAN SEE THE LOCATION OF VEHICLE. ALSO FIRE SERVICE HOSPITAL AUTHORITY WILL BE NOTIFIED. FOR TOLL COLLECTION SYSTEM WE USE NFC, EACH DRIVING LICENSE WILL INCLUDE A BANK ACCOUNT. DRIVER CAN PAY TOLL AND OTHER CHARGES USING HIS DRIVING LICENSE





HARDWARE

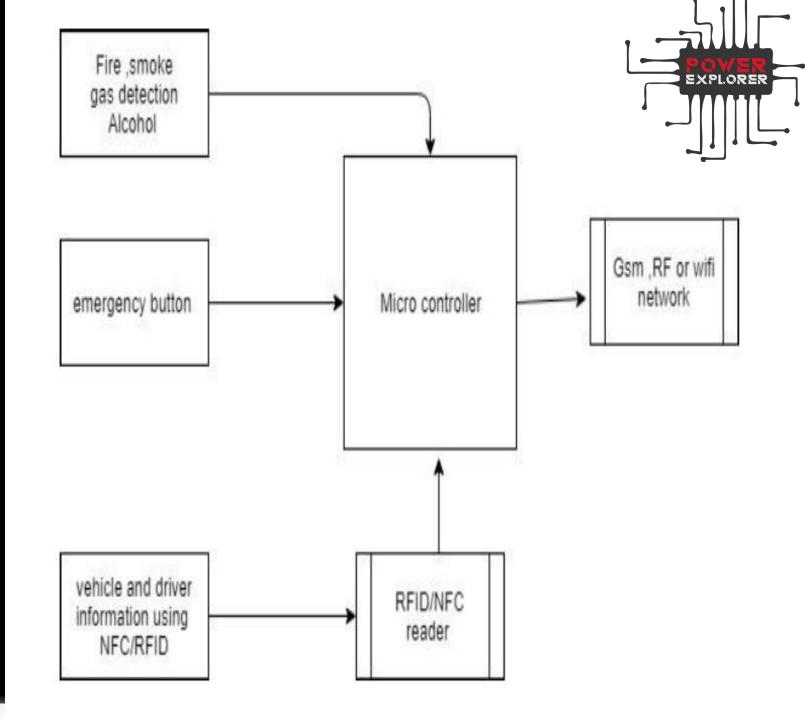
HARDWARE INCLUDES

- 1:Rfid, NfC, Finger Print Authentication
- 2:Smoke, Gas, Fire detection
- 3:A –Gps for real time tracking
- 4: Gsm and Rf communication
- 5: speed limiting using rotary encoder
- 6: Gyroscope for axis detection
- 7: Emergency Button for Notify Police
- Women/ Child harassment, Robbery, illegal driving, Rough driving
- 8: A pressure transducer for detection of crush



HARDWARE DESIGN

We use a microcontroller for Getting data from all the sensors, After that it upload user Information to database. During accident occurs it also Upload valid information to Database





REAL-TIME TRANSPORT MONITORING AND MAPPING

REAL-TIME TRANSPORT MAPPING MAP: A MAP APPS IS REPRESENT REAL-TIME TRANSPORT MONITORING SYSTEM. IF A ACCIDENT OCCUR AT ANYWHERE THIS SYSTEM WILL NOTIFY THE LOCATION WHERE ACCIDENT IS OCCUR.



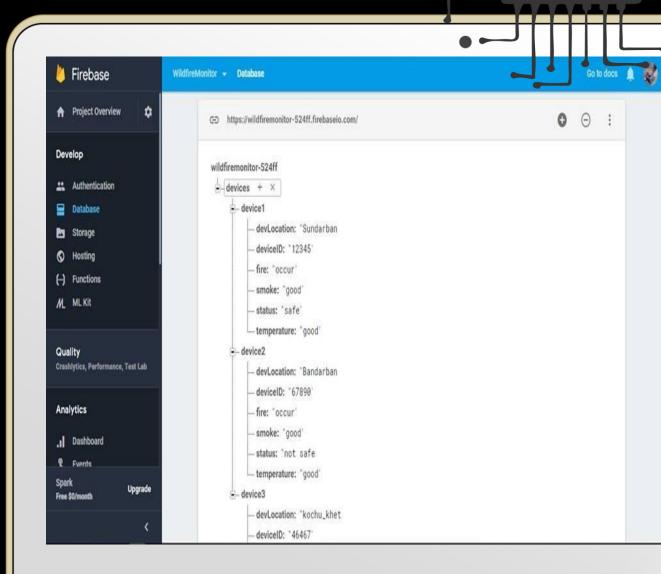
Map View





REAL-TIME DATABASE

A DATABASE WILL REPRESENT ALL OF INFORMATION, THAW WHO IS DRIVING, WHERE IS DRIVING, ACCIDENT OCCURRED OR NOT.



PUSH NOTIFICATION

A SMART APPLICATION WILL NOTIFY THE POLICE, FIRE SERVICE AND HOSPITAL AUTHORITY

If any accident is occurred nearby police station, fire service and hospital will notified by smart apps. By using this apps the will know where is accident is occurs. So injured people served by police fire service, hospital service.



Feature of apps

Home

Welcome to Transport Monitor Application



Login

Log in panel





Menu: Location , drivers info and current local status

11:10 ■ ± ■

Current Status

U ∠ * □ ■

11:09 **II** ± ■ □ □ **II** ■ □ ■



M M Rayhan Parvez





Asif Ahmed



Current Status:









EXPLORER

Unique

First to Market

PRODUCT

SMALL AND SMART DESIGN FOR EASY INSTLLATION EVERY WHERE



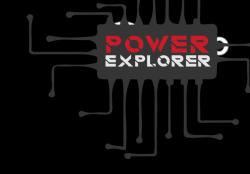
Tested



Authentic

Business Model

Business model of our system









Plan to do minimize risk:

- 1-Find out matching product
- 2-Low market price
- 3-Limited production



Find out matching product



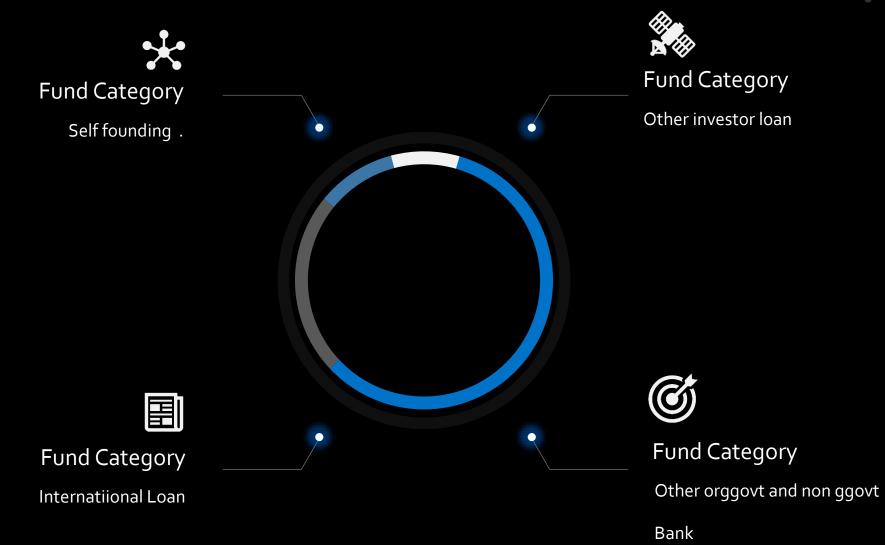
Low market price



Limited production

Funding



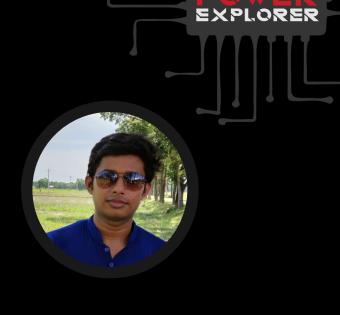


Team









MD ANAET ULLAH

Team Leader

Circuit design, Sensor analysis, Network modelling.

MD SADHAN SARKER

Software Leader

Database, web

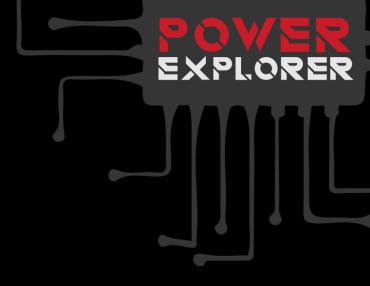
MD SHAKHAWAT HOSSEN

Hardware Network design, Circuit data analysis .

NEROPOM PANDIT

Android Android apps design and development

ACHEIVMENT & HONOUR



Now We are making discussion with Ministry of road transport & Bridge, Bangladesh

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BASIS

BASIS Soft Expo- 2018 Innovation Award

2nd Runners up

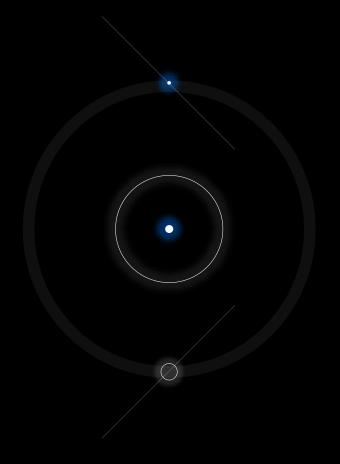
IEEE KUET

Micro Innovator; Organized By IEEE, KUET

Finalist

IEEE SS₁₂

NSBM green university , homagama, Sri Lanka





THANK YOU

Poower Explores 🙎

8801815102109

jrign@gmail.con ⊠

Facebook.com/powerexplorers %