Project id- 4782

Project Name – Petrol Pump Locator

Team Name-SAMAVET

Members:

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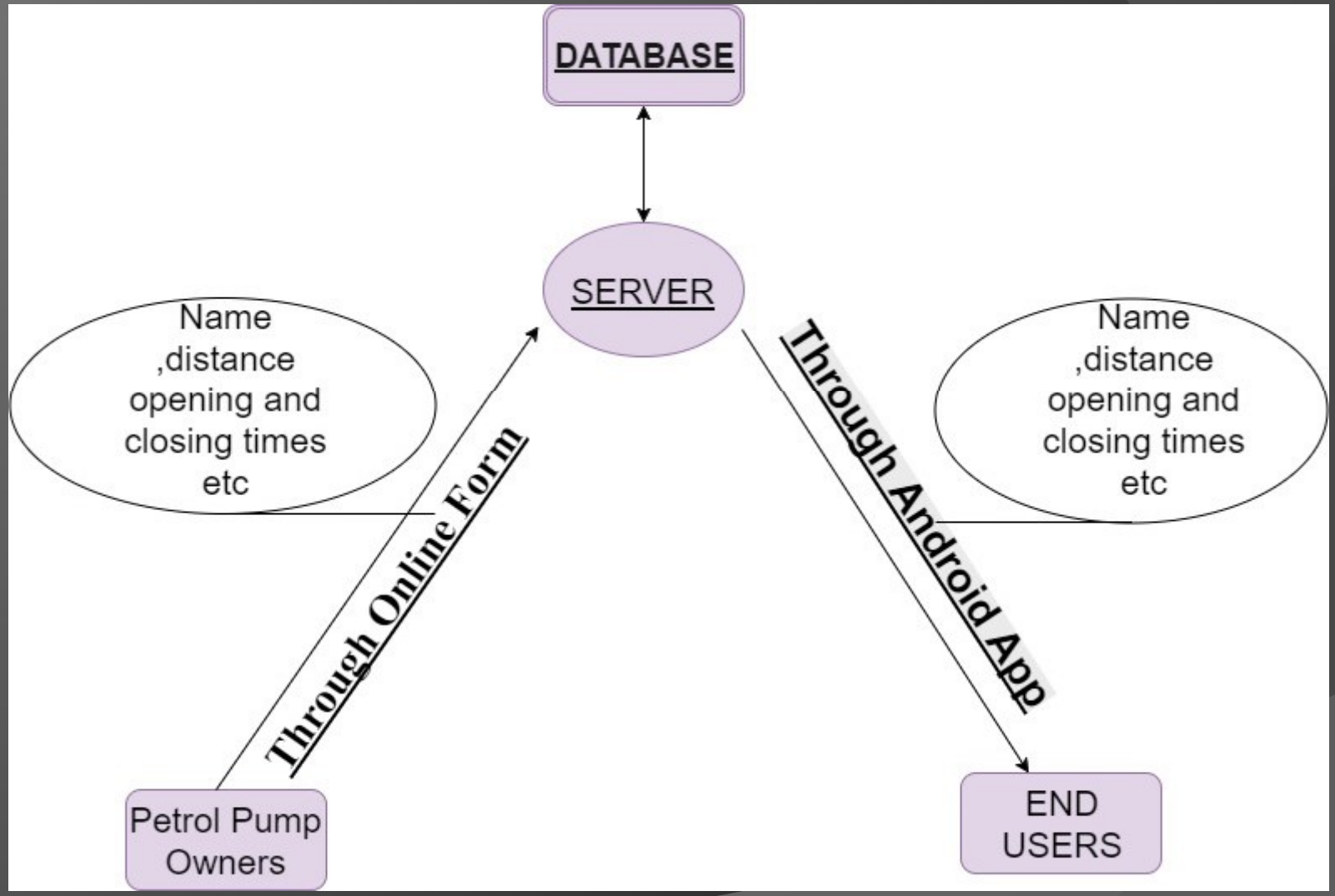
2. Shivam Kumar Dwivedi
3. Palash Nalode
4. Shruti Agrawal
5. Rajan Kumar Pasi
6. Sambhav Dave

PETROL PUMP LOCATOR



Platform used:

- Android Studio, django, java, python, php
- A Bluetooth device

Our Aim

1. Real Time Data
2. Automation
3. Less Human effort More Output
4. Minimal design
5. User friendly
6. Ease the work
7. Time saving
8. Less dependancy
9. Monitoring

What do we need?

----DATA

Who will upload the data

- Human → ✗
- Machine → ✓

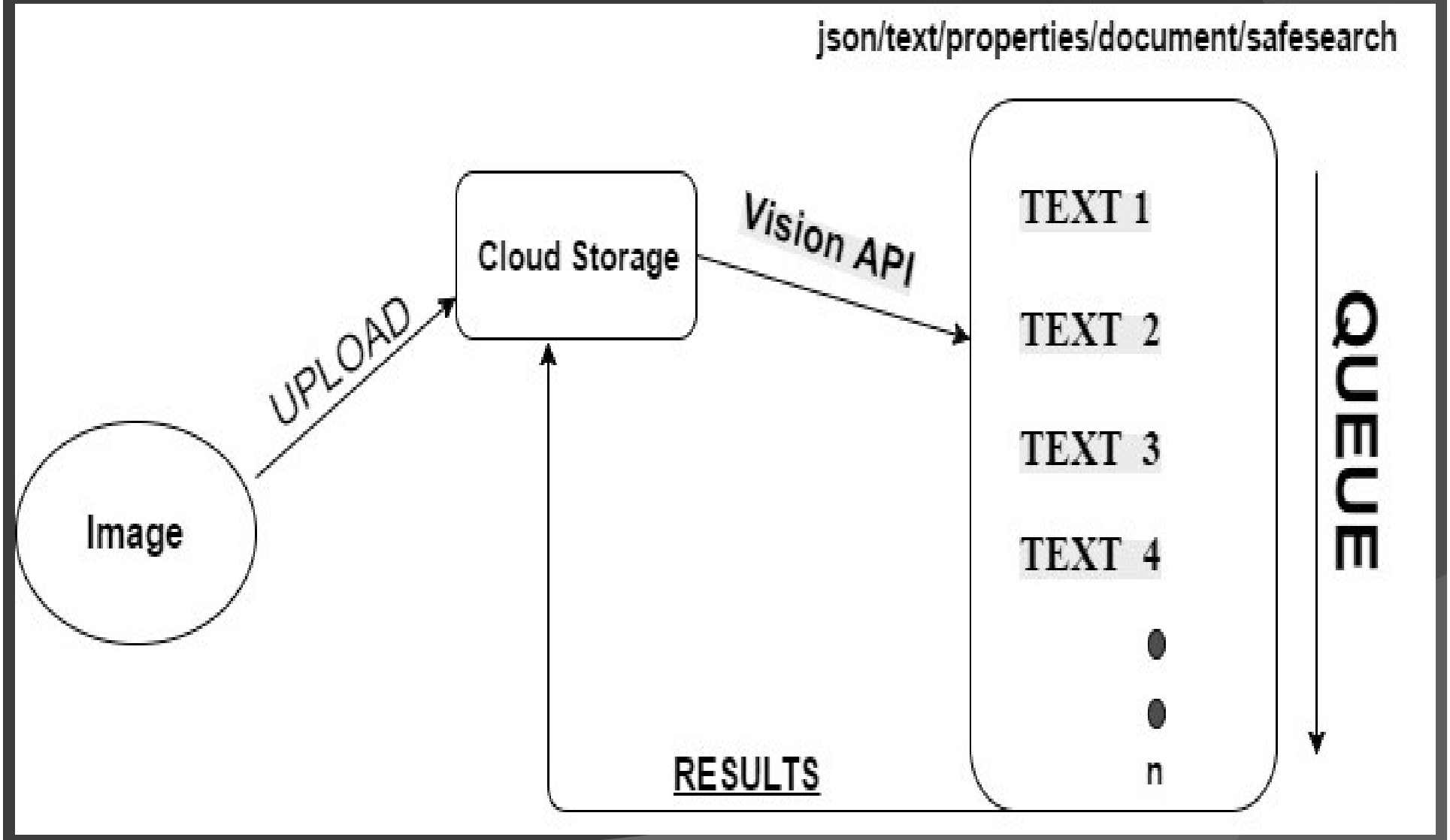
How will we achieve this?

:-Through Automation

With the help of GOOGLE CLOUD VISION API

It provides Optical Character Recognition (OCR)

How the API will show the result…

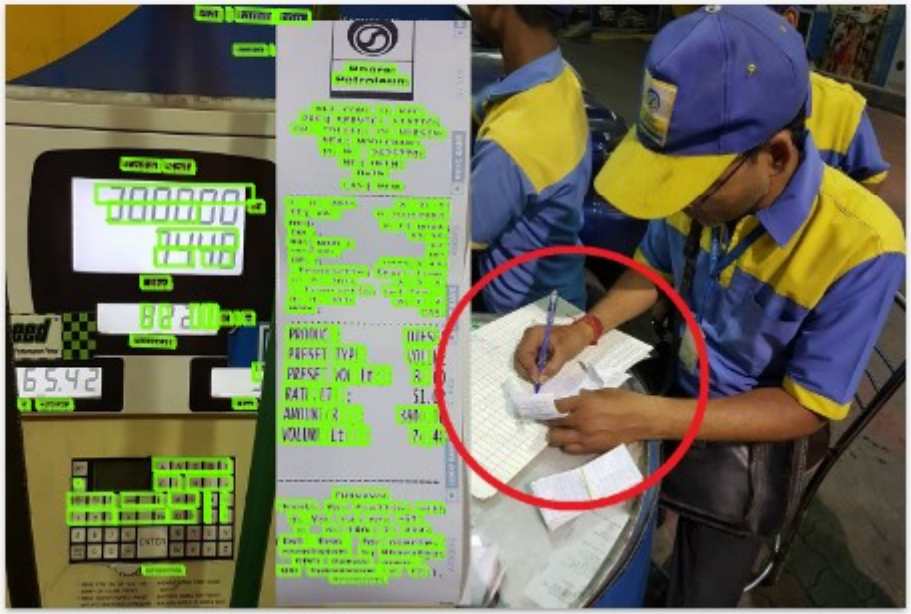


Secure | https://cloud.google.com/vision/

Google Cloud Platform

Why Google | **Products** | Solutions | Launcher | Pricing | Customers | Documentation | Support | Partners

Logos | Web | **Text** | Document | Properties | Sa



What-to-do-When-Petrol-Pump-Employee-Misbehaves-with-You-1.jpg

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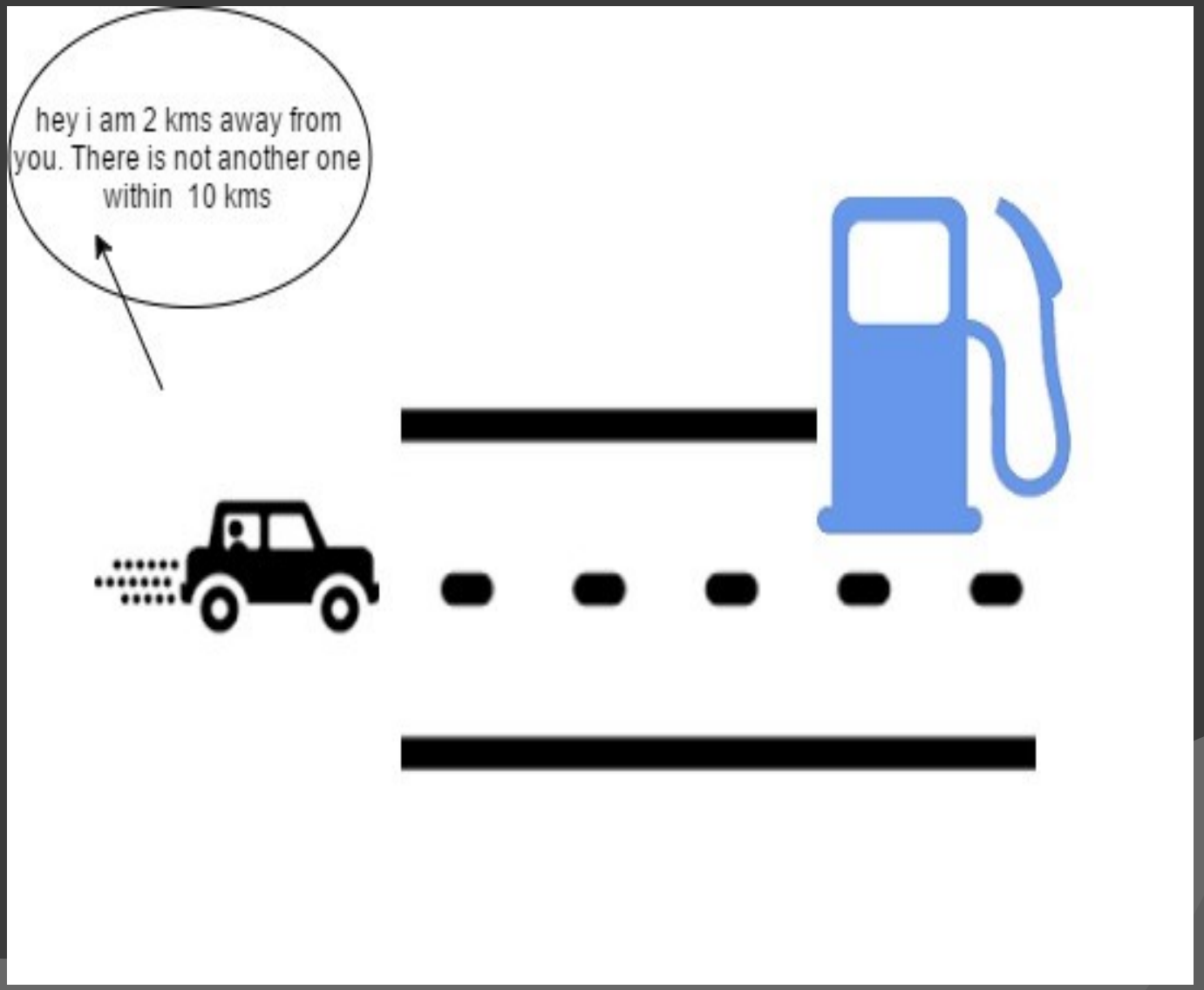
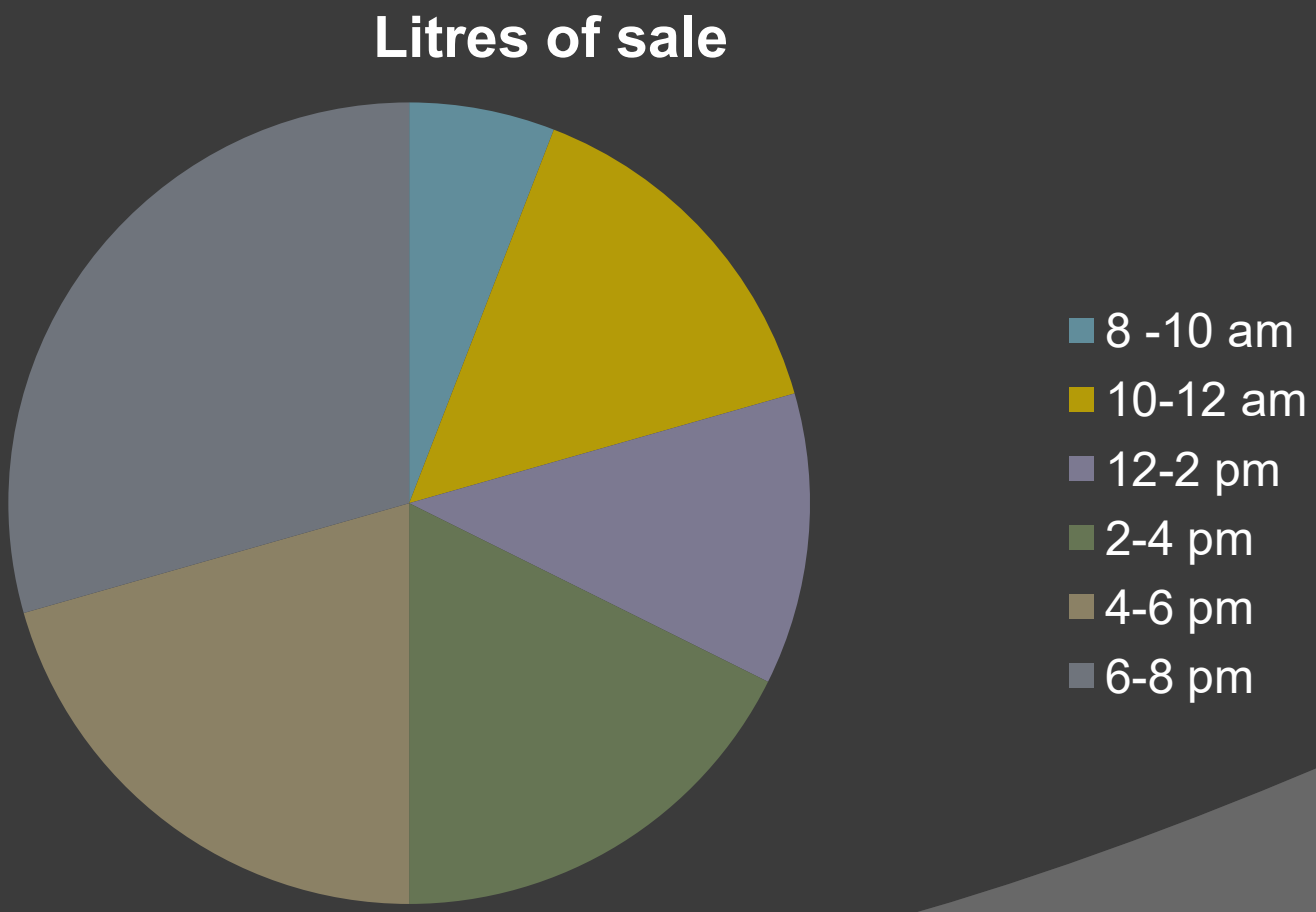
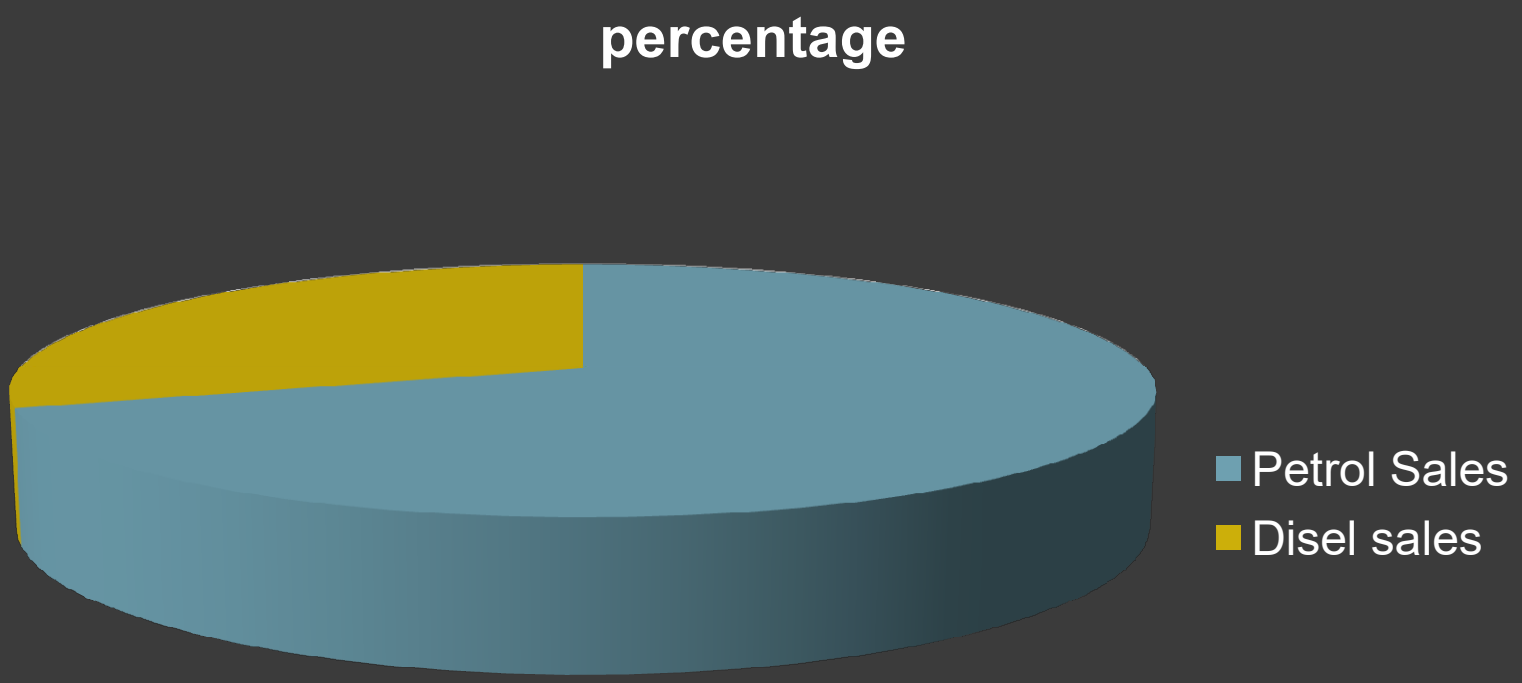
What-to-do-When....jpg | custom-digital-se....png | england-black-ye....jpeg | Check-meter-and....png


hey i am 2 kms away from you. There is not another one within 10 kms

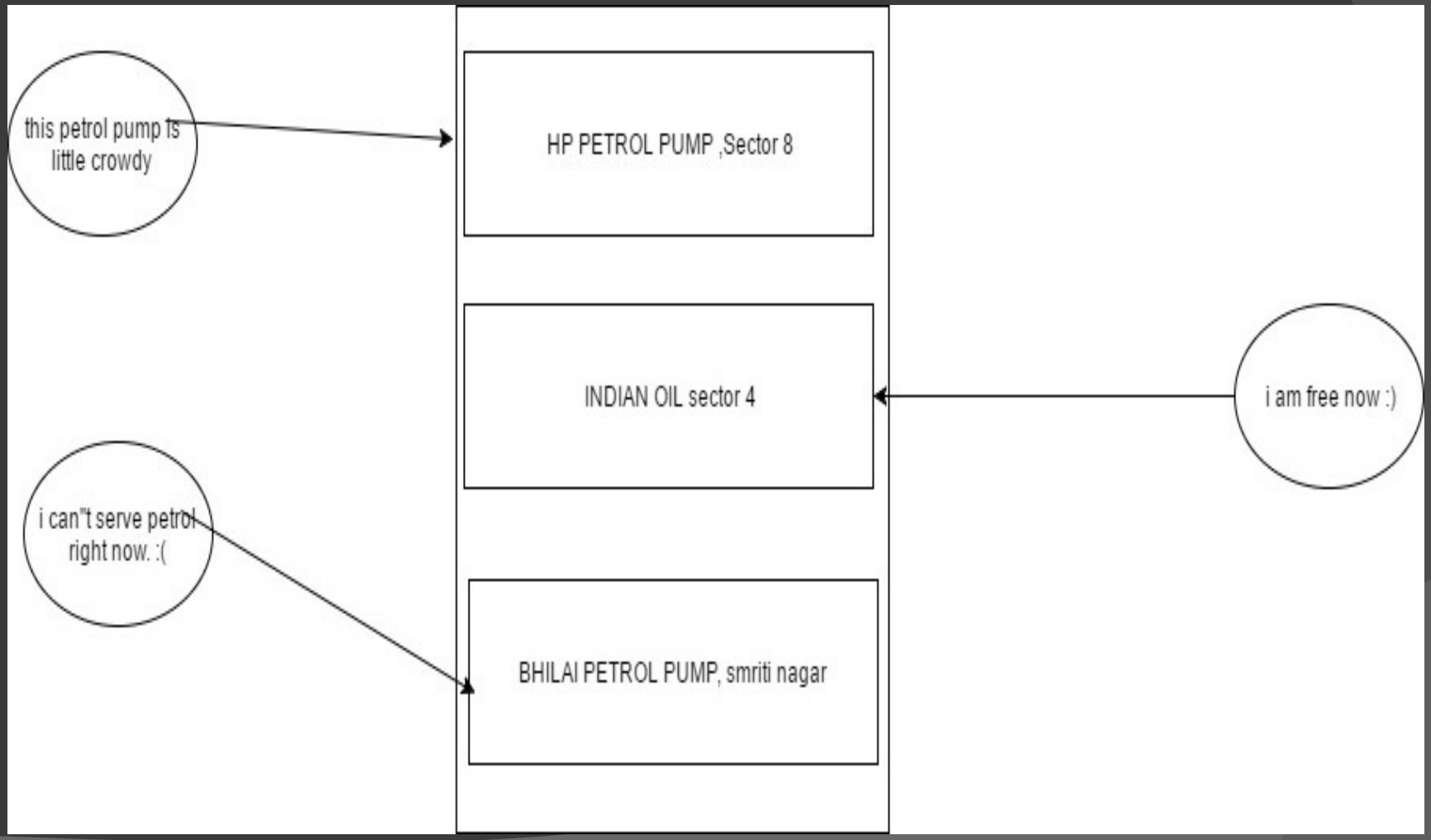
PIE CHART OF PETROL SALES



Sale ratio



If the user is driving...

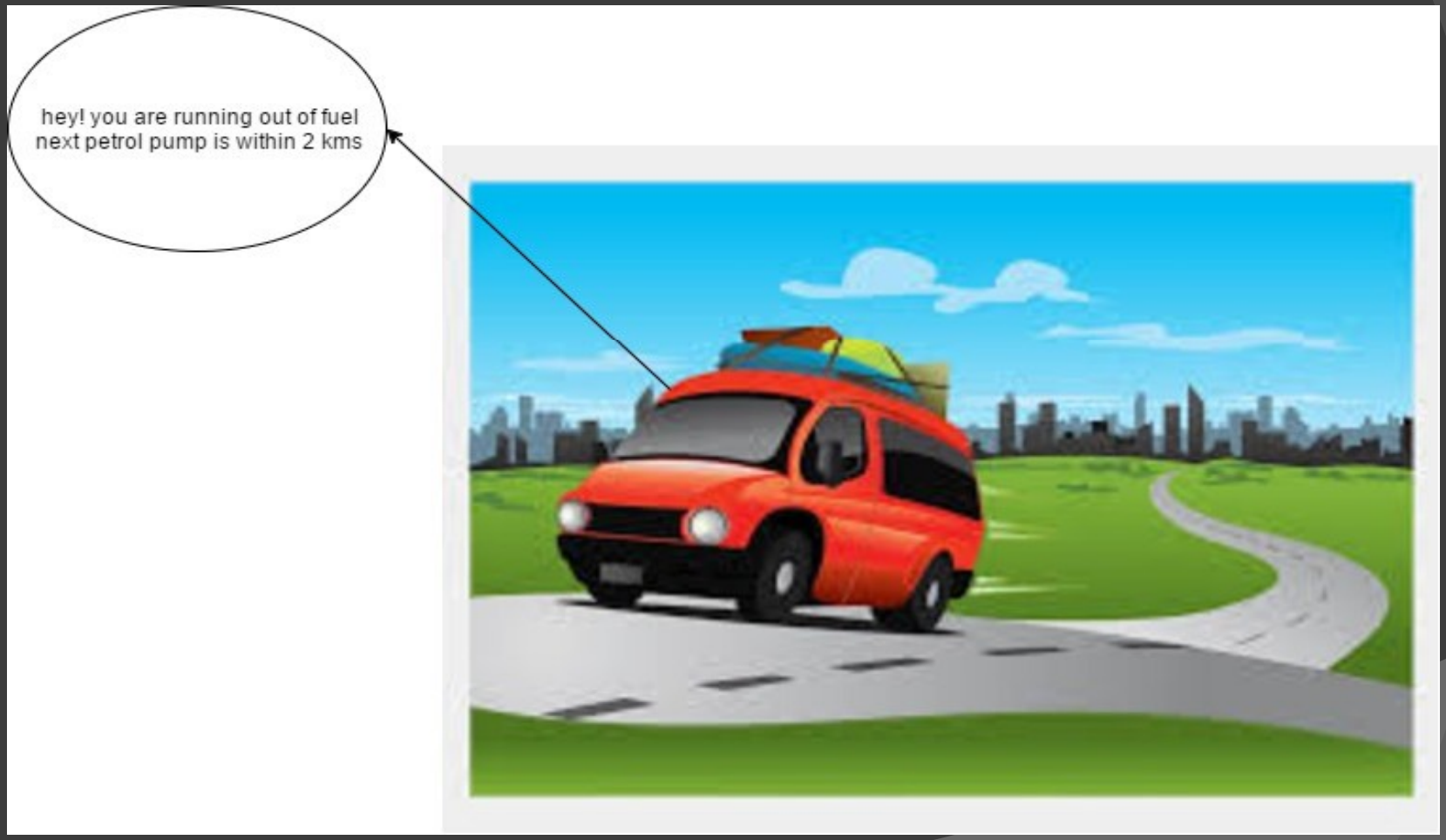


JOURNEY PLANNER

THE USER HAVE TO PROVIDE:

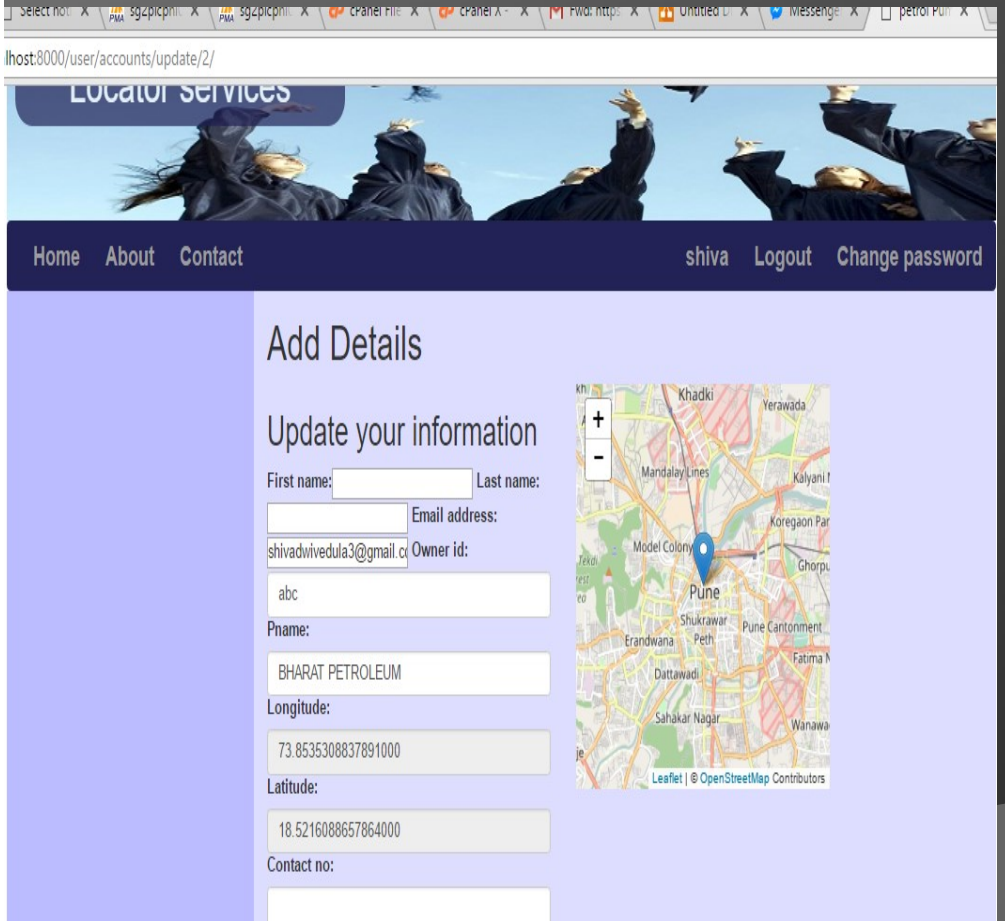
- 1. source and destination
- 2. vehicle average

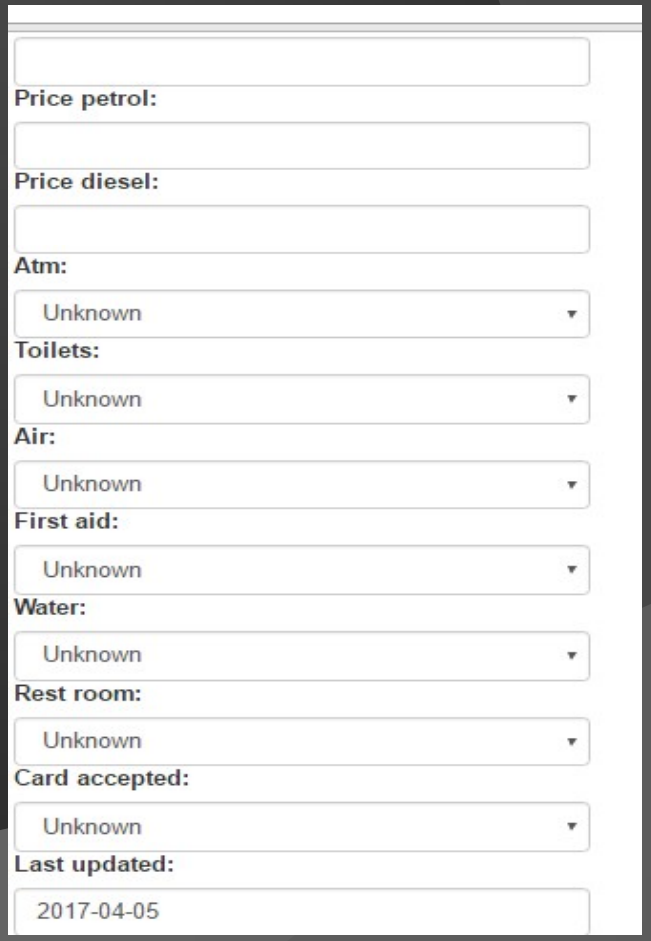
What Our App Will Provide



STEP 1 :- (By petrol pump owners)

- The online form is filled using django framework.
- All the availabilities will be filled in yes or no (boolean)



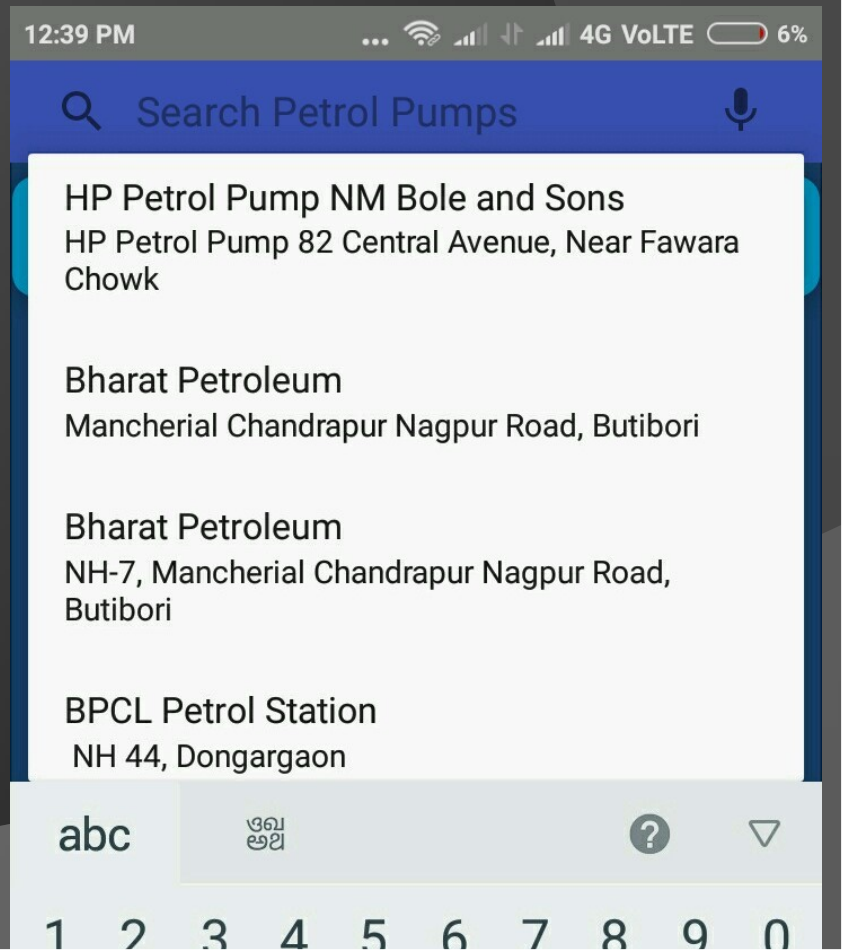


STEP 2 :- (for End-users)

List of nearby petrol pumps

SORTED

Search by the name or area of petrol pumps



Features of our app:-

- Offline navigation, directions

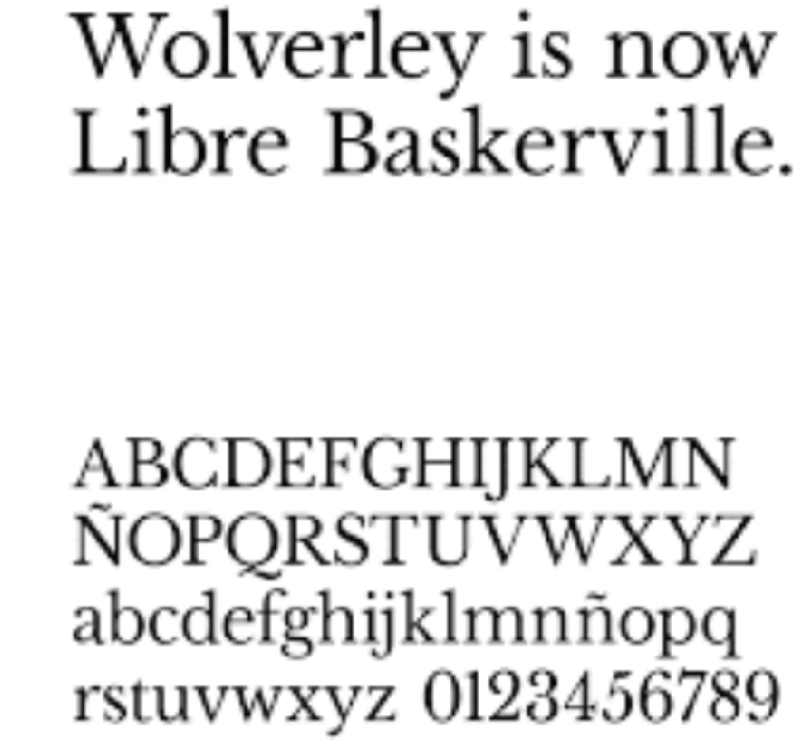
  Because GPS doesn't need internet.

- Real time information

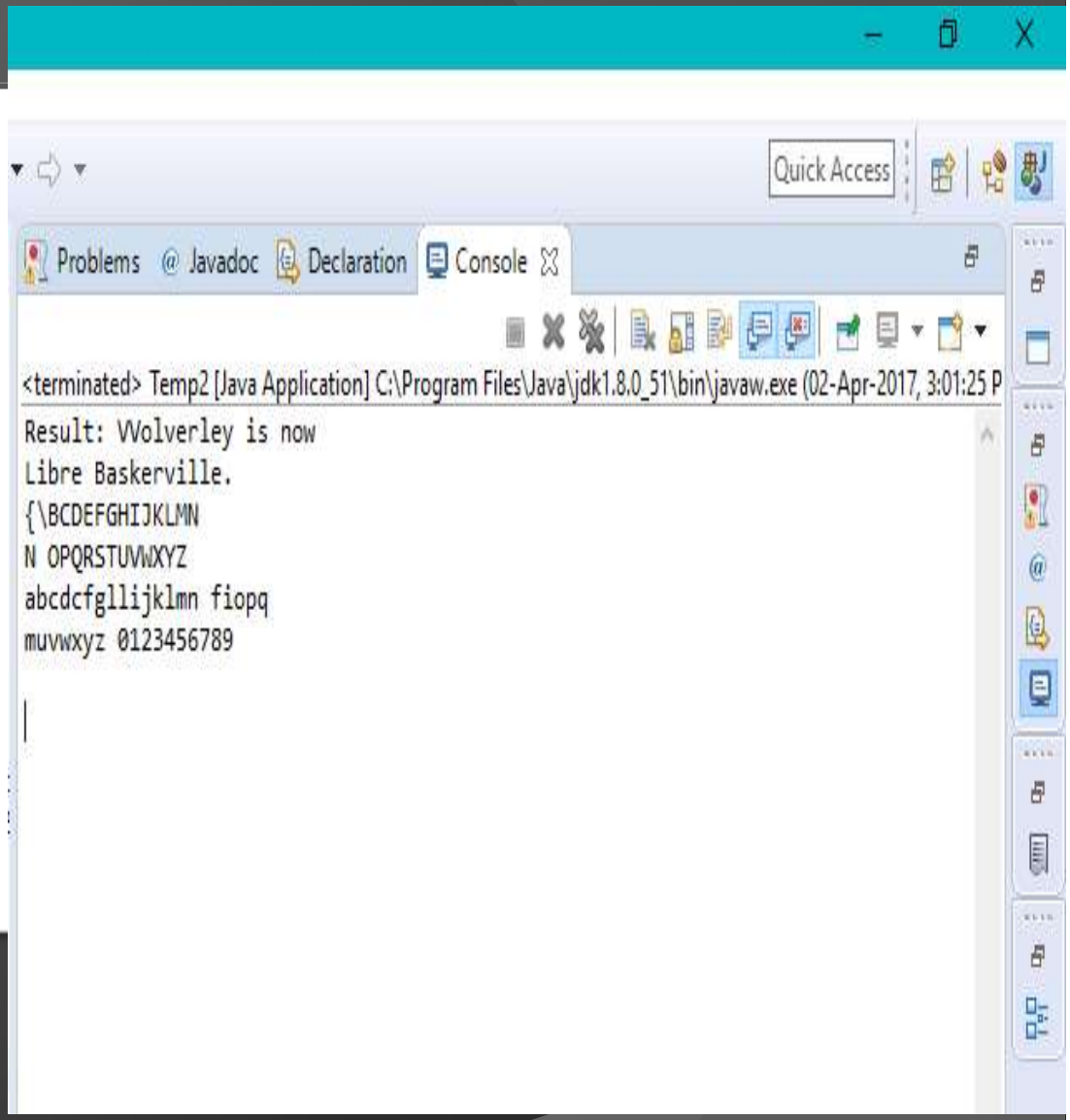
  If the petrol pump is opened or not

- Admin panel for government

Working of OCR



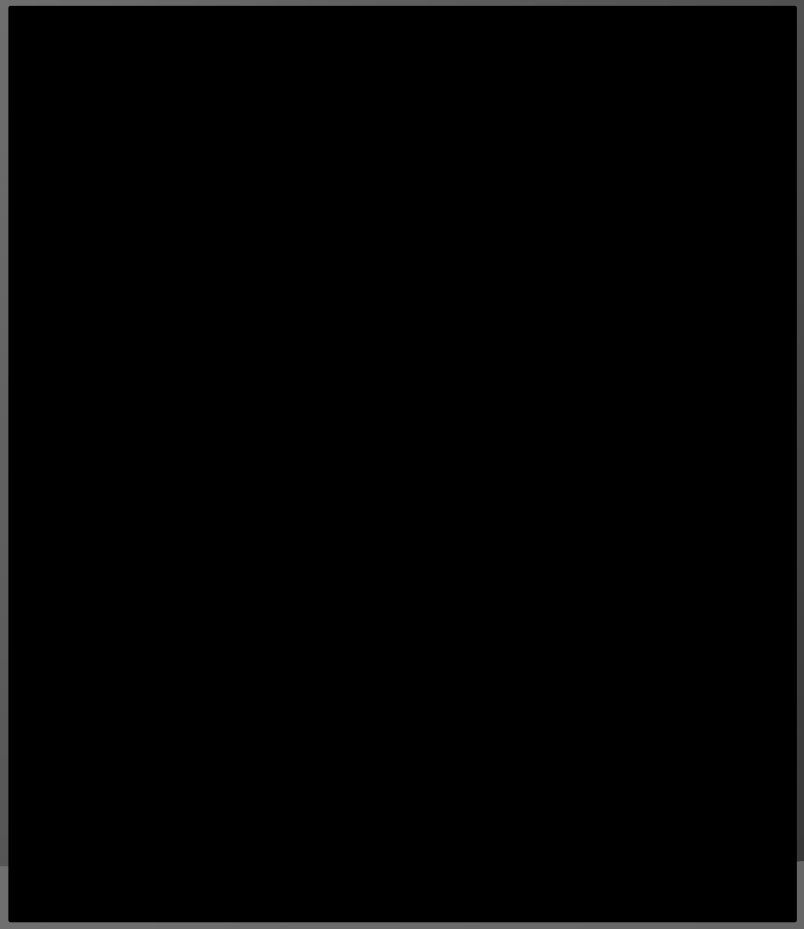
This is the sample image that will Be captured by the camera placed on the petrol pump

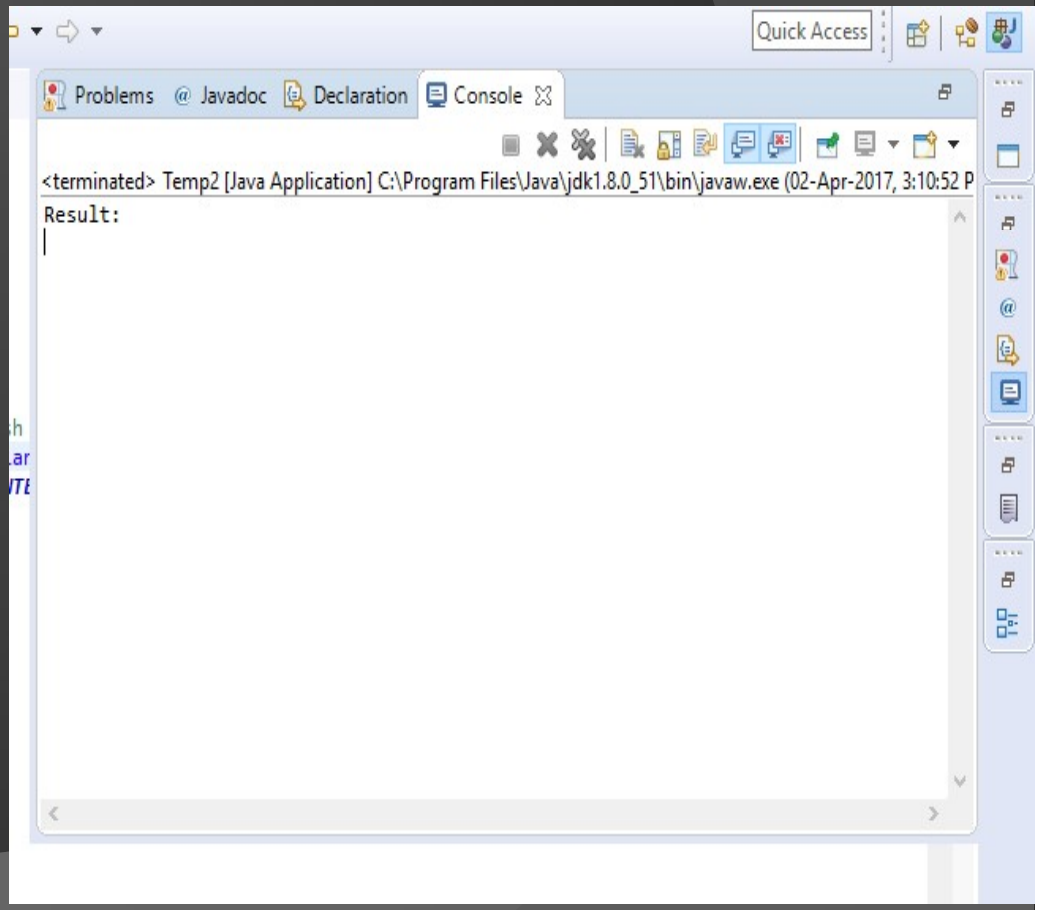


Extracted data using OCR

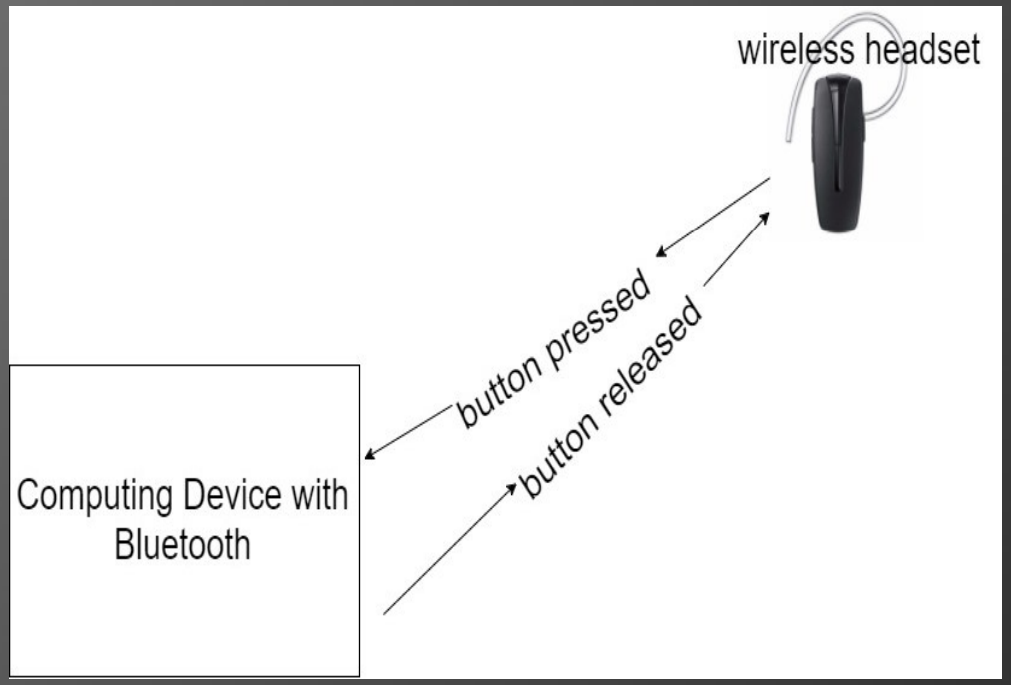
What if we make every petrol pump connected to internet???

1.We used java asprise SDK to reflect the image on the fuel dispenser screen.





How did we get this idea..



It is difficult task to continuously monitor the screen . Hence we will capture image of screen on button press and release of Hose

Real Time Data

- Through the Bluetooth technology we can get the real time data from the petrol pump.
- The Bluetooth device will be send the data to intermediate device and the then further it will processed to server.
- The Bluetooth device will be attached to the hose of the petrol pump and whenever the hose will trigger the button in the Bluetooth device will be pressed and a signal sent to the computing device and the same will happen when the hose is released.

Benefits of using Bluetooth device instead an attached chip

- We do not have to replace or modify existing machines.
- Implementation will be very easy and cost-effective.
- More trust because of real-time data synchronization