

Project id- 4782

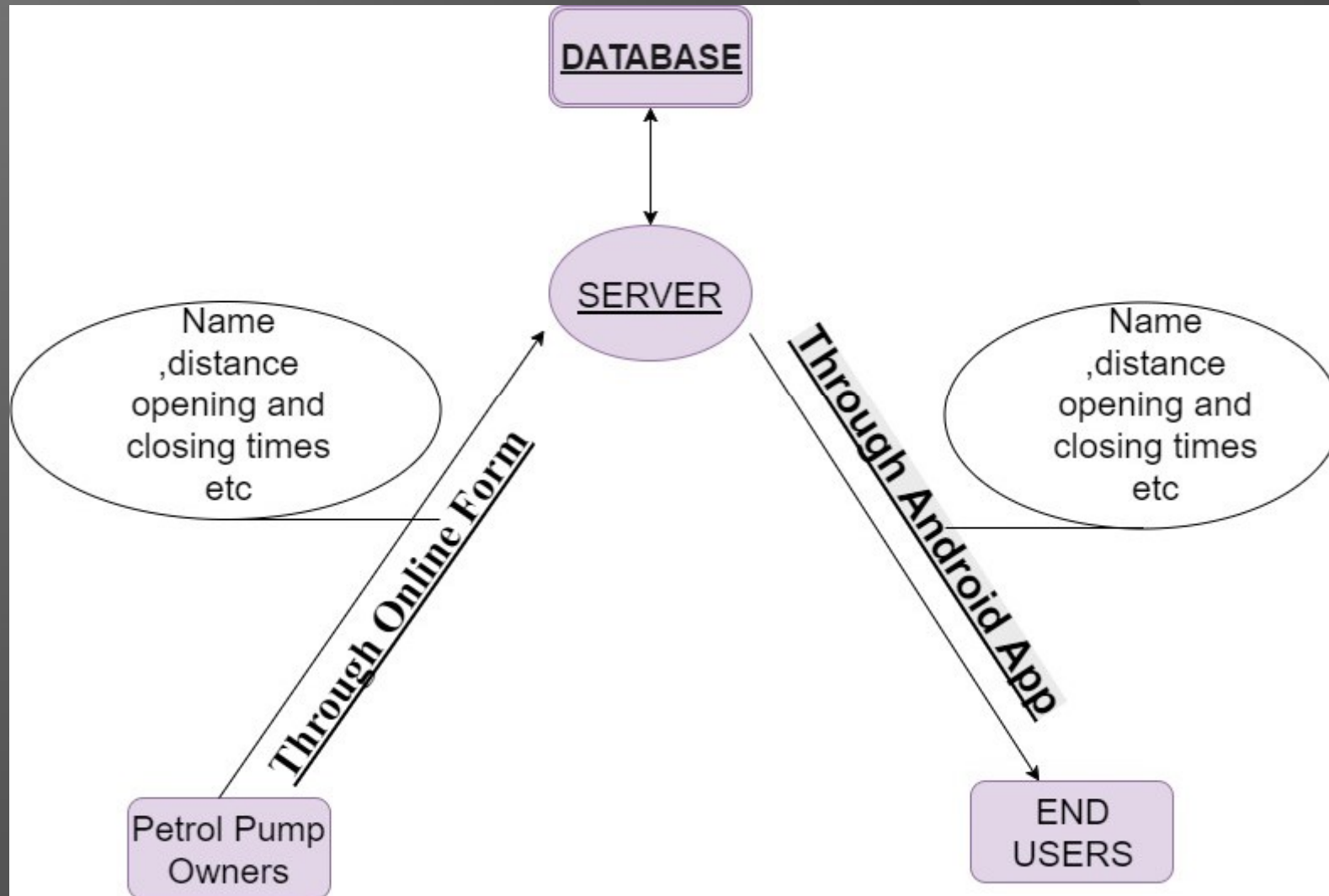
Project Name – Petrol Pump Locator

Team Name-SAMAVET

Members:

1. Dwivedula Siva(Leader)
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 → 

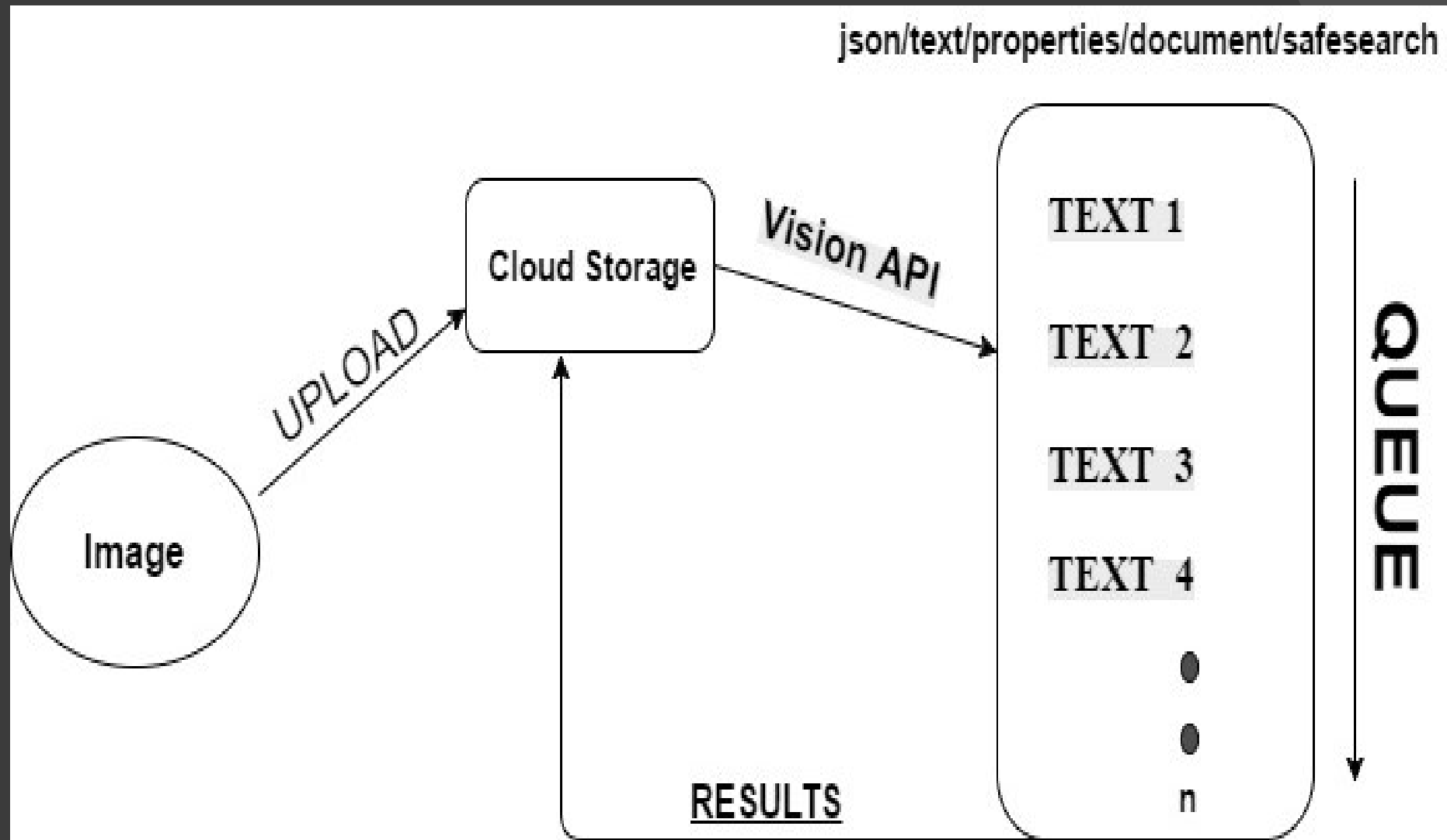
How will we achieve this?

:-Through Automation

With the help of GOOGLE CLOUD VISION API

It provides Optical Character
Recognition (OCR)

How the API will show the result...



Logos

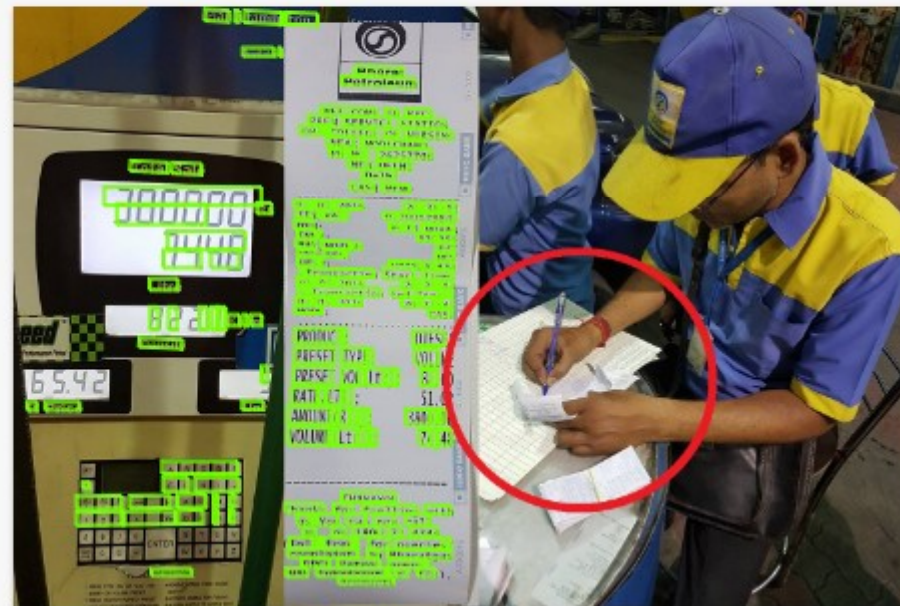
Web

Text

Document

Properties

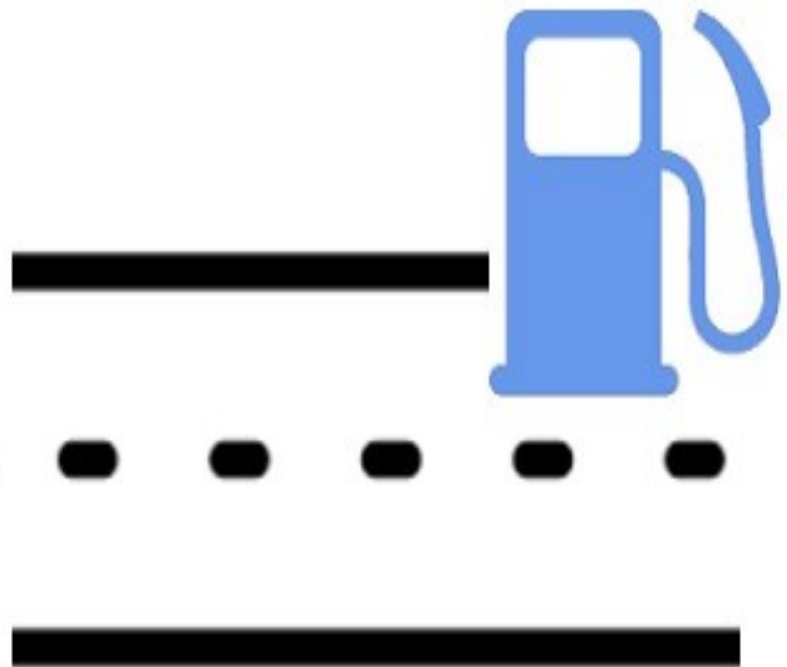
Sa



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

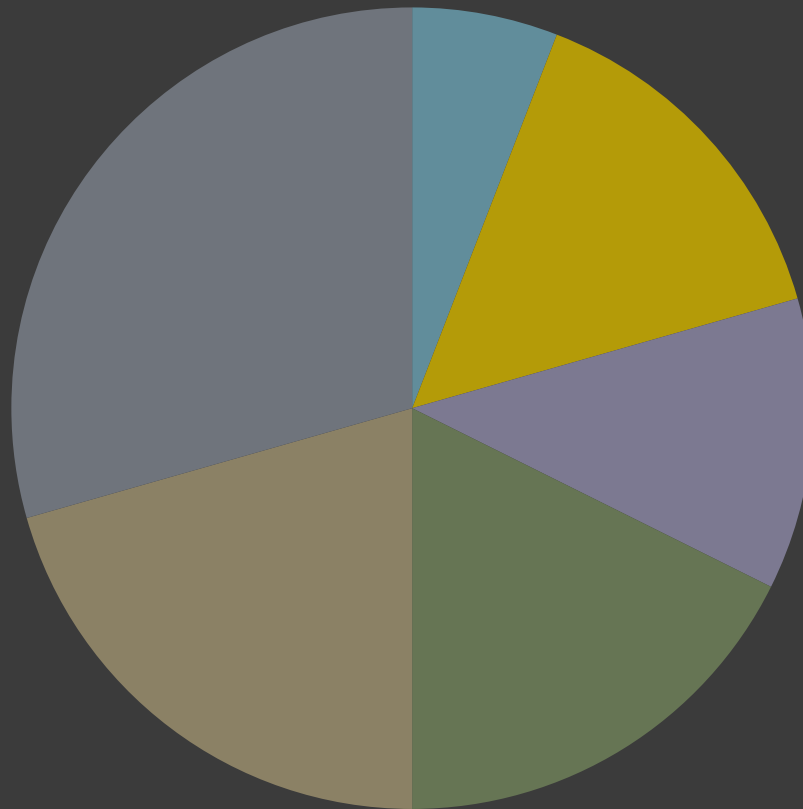
it Price F2 Total Sale Litre
ILLO 11 IO Plan a family , t
ABCDE EG HOO BBB GIR k
Oval OP a B Available o
INSTRUCTIONS 8 P. F, kg/l
PRODUCT: DIESE PRESET
VOLU D PRESET VOL(Ltr):
RATE/LTR. AMOUNT (Rs.)
VOLUME (Ltr.): 74.48 Bhar
Petroleum Uni WELCOME
PREM SERVICE STATION (C
COLLEGE OF NURSING NE
MOOLCHAND PH. No . 26/
NEW DELHI Delhi CASH M
01/05/2016 RS 20:38:13 T
300079847 DSM BR TJ M
020 255 DAY NOZI # 517

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



PIE CHART OF PETROL SALES

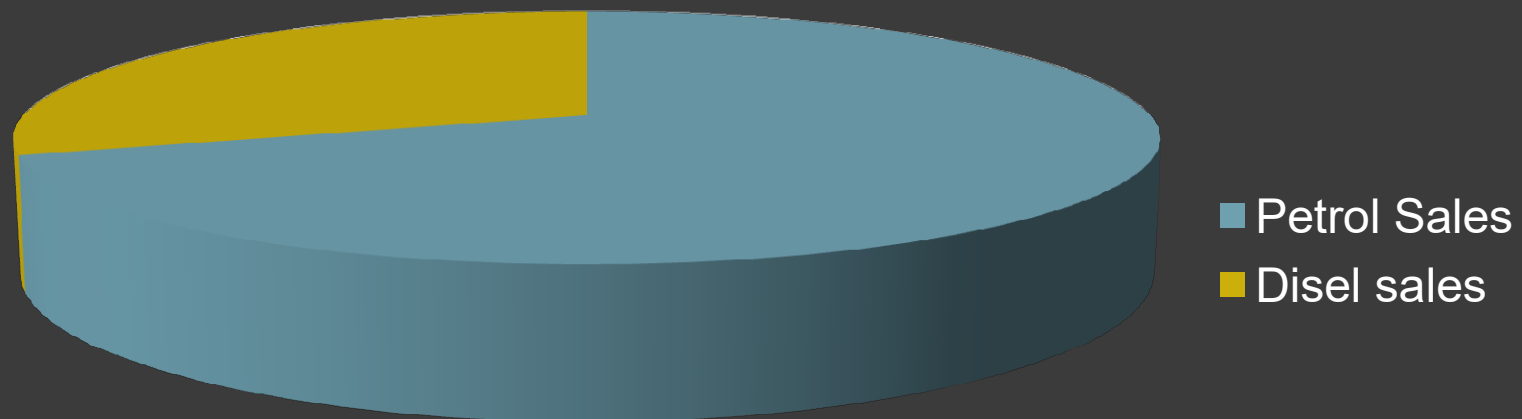
Litres of sale



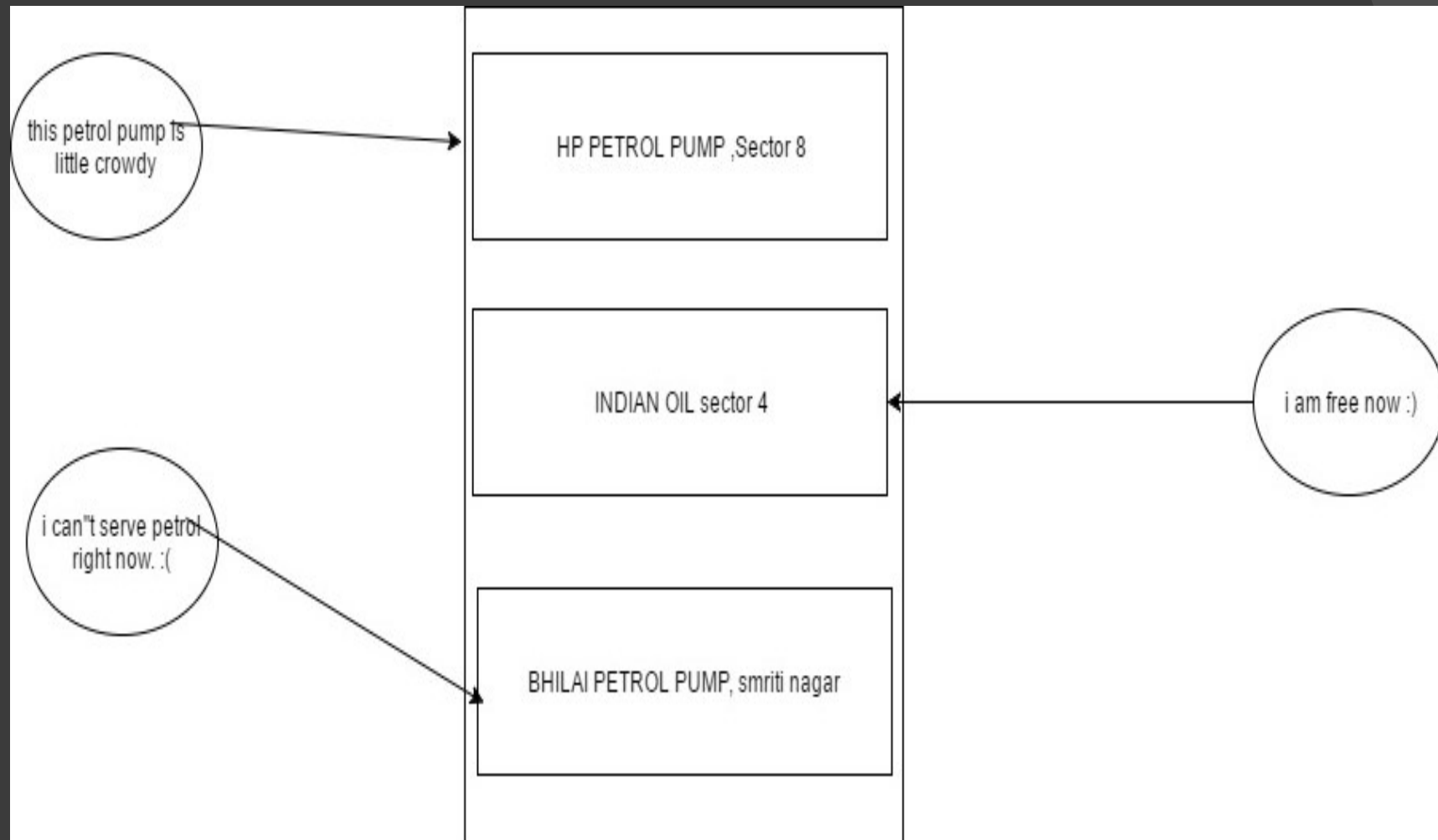
- 8 -10 am
- 10-12 am
- 12-2 pm
- 2-4 pm
- 4-6 pm
- 6-8 pm

Sale ratio

percentage



If the user is driving...



JOURNEY PLANNER

THE USER HAVE TO PROVIDE:

- ① 1. source and destination
- ② 2. vehicle average

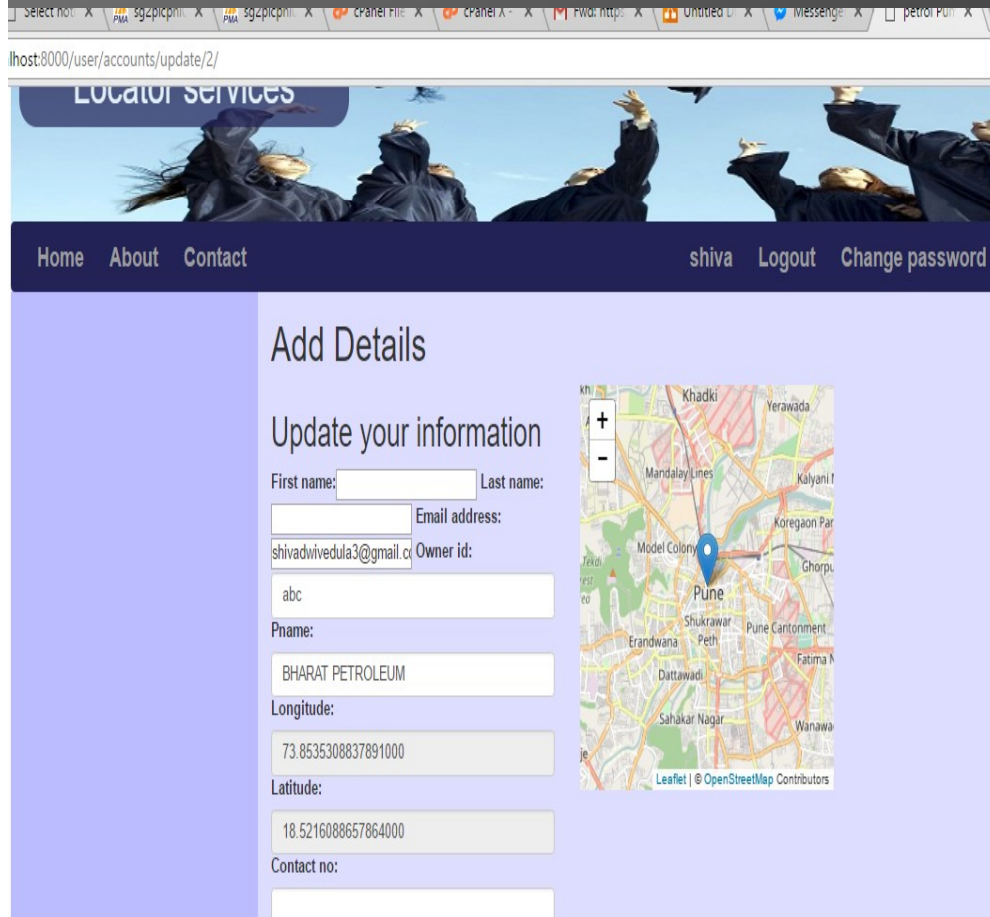
What Our App Will Provide

hey! you are running out of fuel
next petrol pump is within 2 kms



STEP 1 :- (By petrol pump owners)

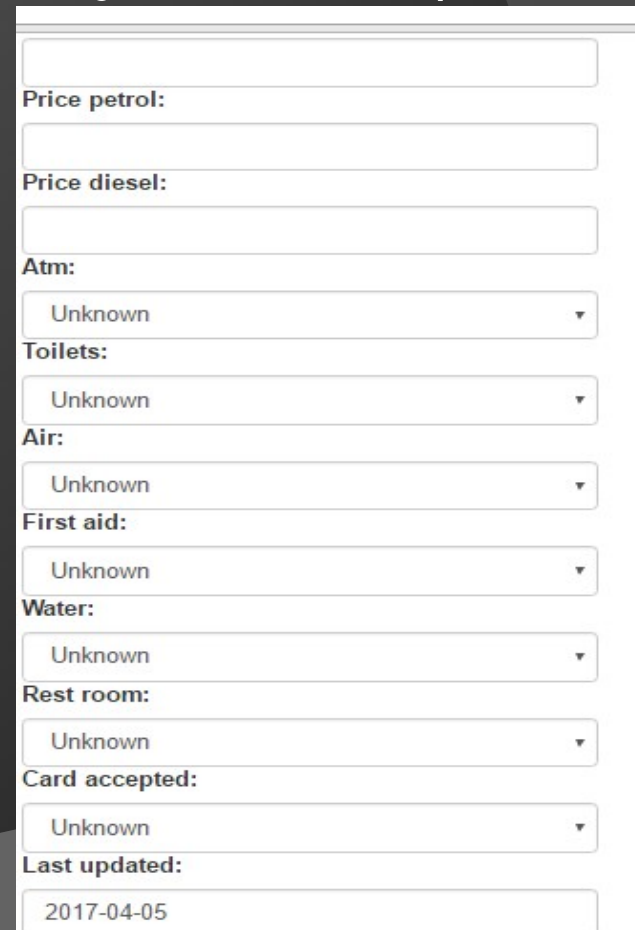
- The online form is filled using django framework.
- All the availabilities will be filled in yes or no (boolean)



The screenshot shows a web browser window with the URL `localhost:8000/user/accounts/update/2/`. The page has a header with 'Locator Services' and a navigation bar with links: Home, About, Contact, shiva, Logout, and Change password. The main content area is titled 'Add Details' and 'Update your information'. It contains a form with the following fields:

- First name:
- Last name:
- Email address:
- Owner id:
- Phname:
- Longitude:
- Latitude:
- Contact no:

To the right of the form is a map of Pune, India, with a blue location pin. The map shows various landmarks and streets, including Khadki, Yerwade, Mandalay Lines, Kalyani I, Koregaon Par, Ghorpu, Model Colony, Shukrawar Peth, Pune Cantonment, Erandwana, Dattawadi, Sahakar Nagar, Fatima N, and Wanawade. The map is credited to 'Leaflet | © OpenStreetMap Contributors'.

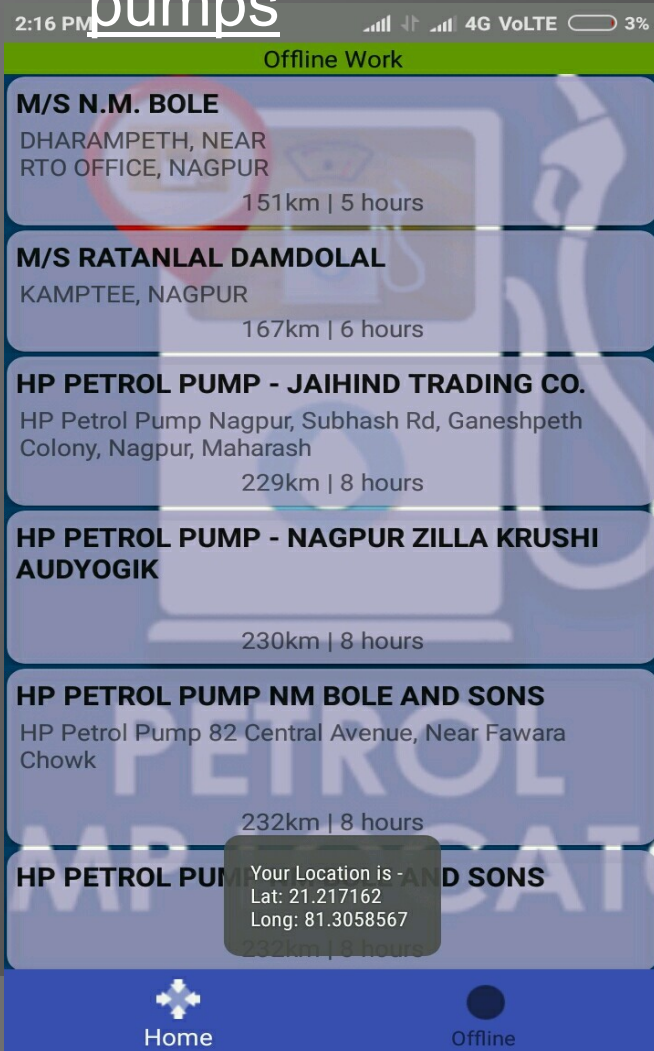


The screenshot shows a form for updating petrol pump details. The form has the following fields:

-
- Price petrol:
- Price diesel:
- Atm:
- Toilets:
- Air:
- First aid:
- Water:
- Rest room:
- Card accepted:
- Last updated:

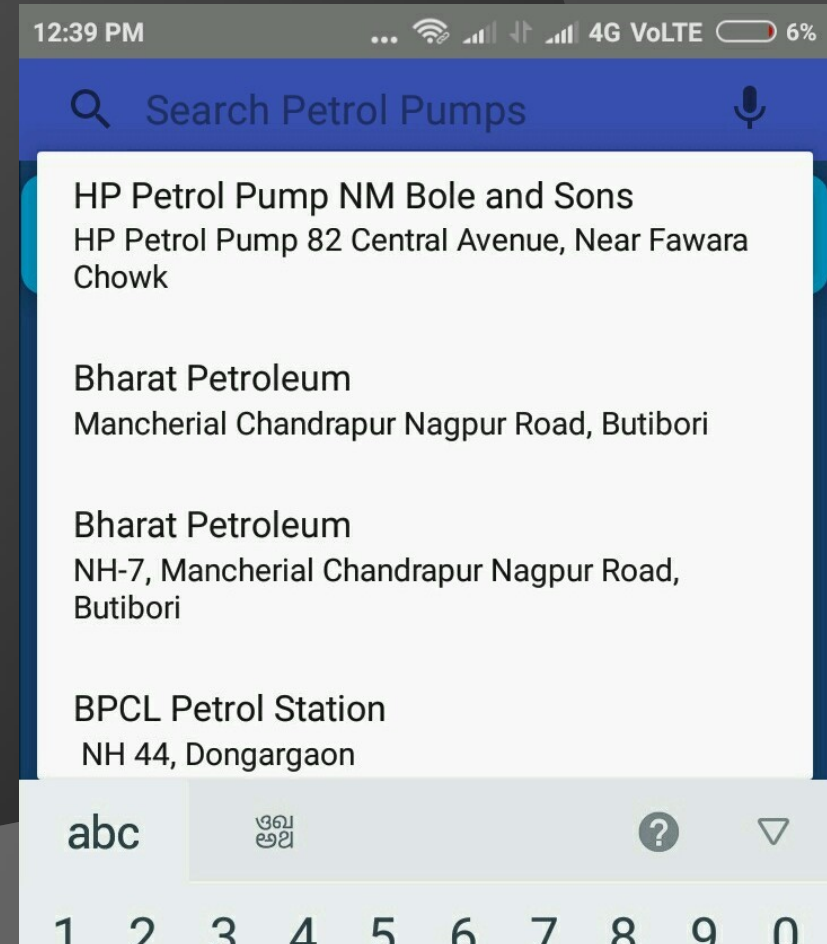
STEP 2 :- (for End-users)

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

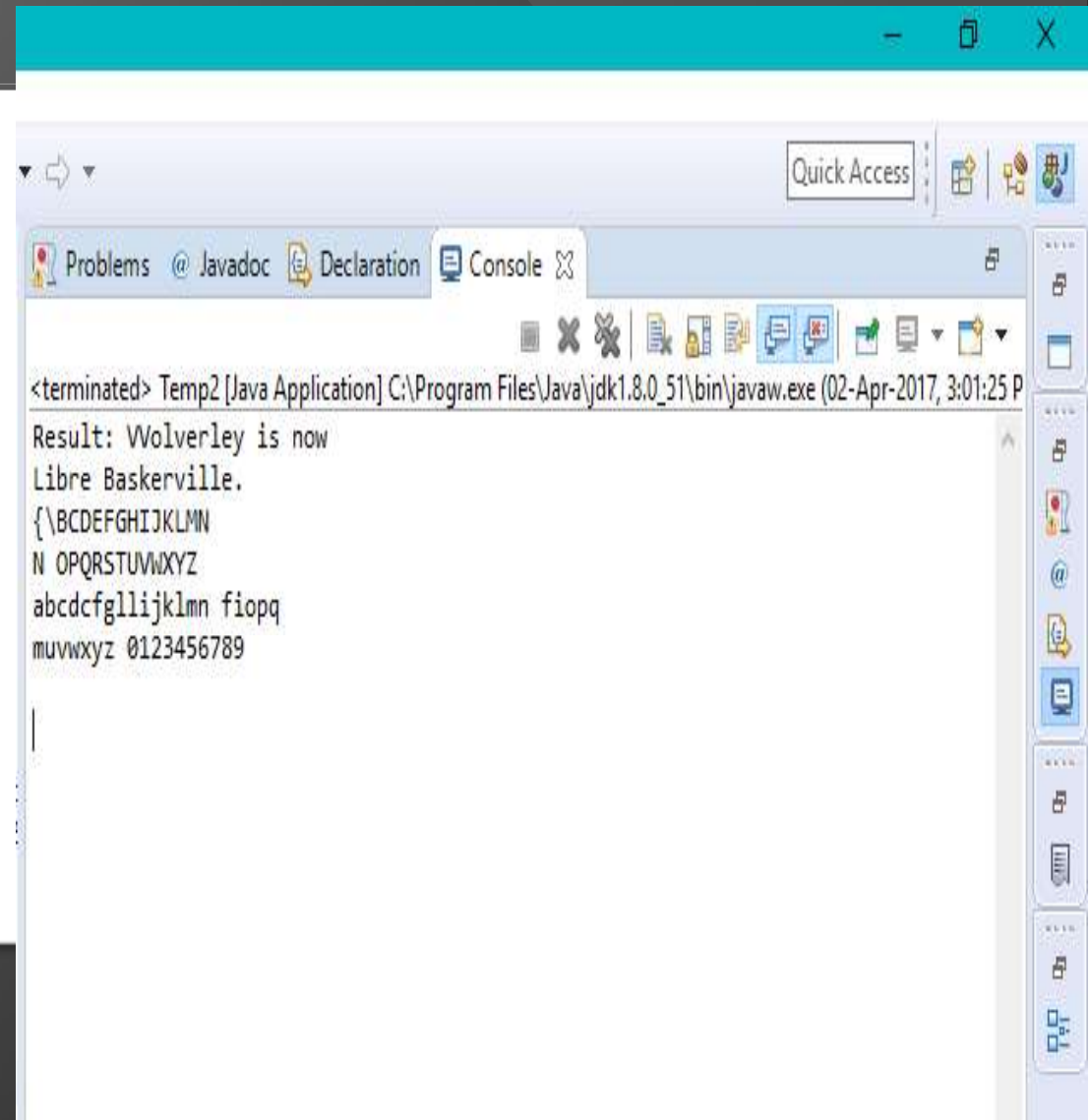
- Admin panel for government

Working of OCR

Wolverley is now
Libre Baskerville.

ABCDEFGHIJKLMNOPQRSTUVWXYZ
ÑOPQRSTUVWXYZ
abcdefghijklmnñopq
rstuvwxyz 0123456789

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

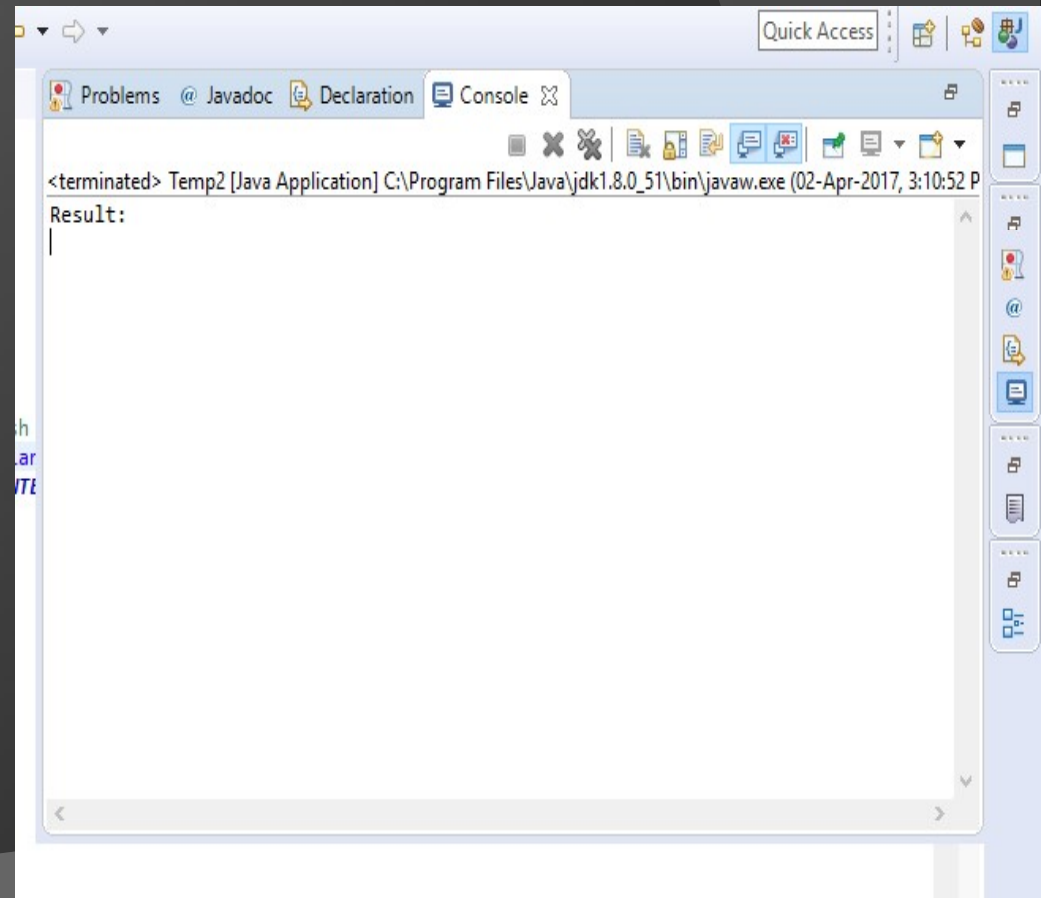
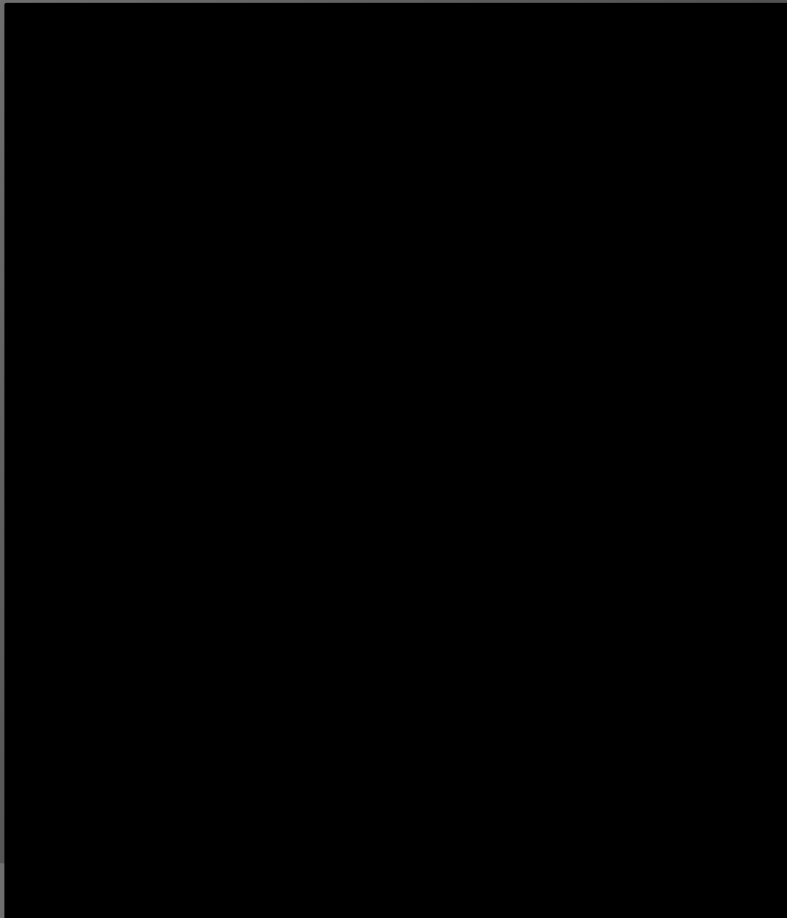
A screenshot of a Java IDE's console window. The window title is "Temp2 [Java Application] C:\Program Files\Java\jdk1.8.0_51\bin\javaw.exe (02-Apr-2017, 3:01:25 P". The console output shows the result of an OCR process: "Result: Wvolverley is now Libre Baskerville." followed by a list of characters: "{\BCDEFGHIJKLMN", "N OPQRSTUVWXYZ", "abcdcfgllijkln fiopq", and "muvwxyz 0123456789". The IDE interface includes tabs for "Problems", "Javadoc", "Declaration", and "Console".

```
<terminated> Temp2 [Java Application] C:\Program Files\Java\jdk1.8.0_51\bin\javaw.exe (02-Apr-2017, 3:01:25 P
Result: Wvolverley is now
Libre Baskerville.
{\BCDEFGHIJKLMN
N OPQRSTUVWXYZ
abcdcfgllijkln fiopq
muvwxyz 0123456789
```

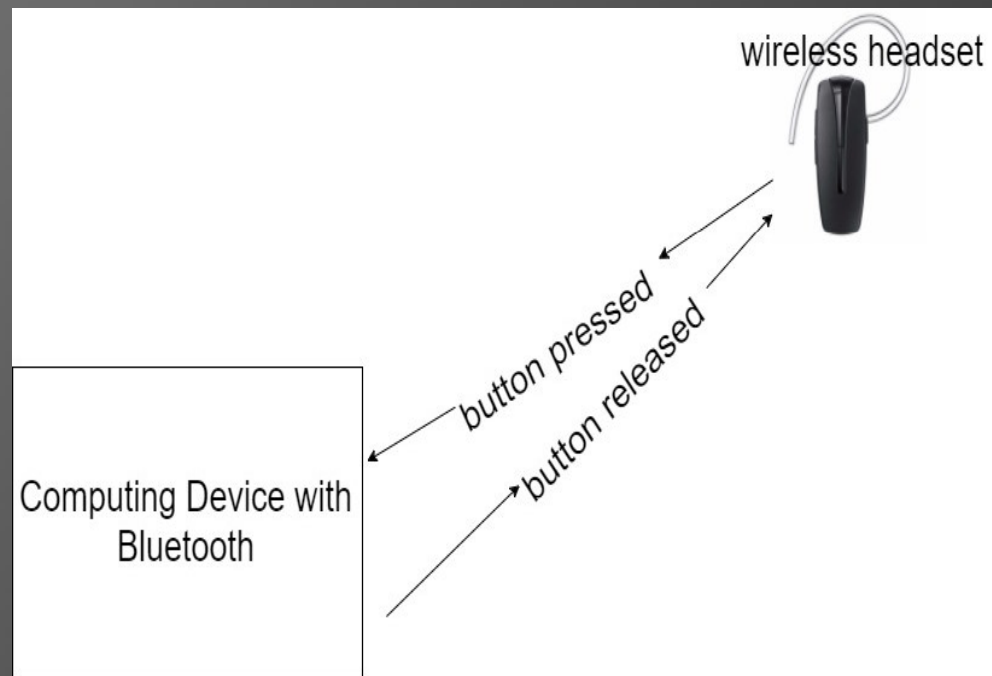
Extracted data using OCR

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

- ④ Through the Bluetooth technology we can get the real time data from the petrol pump.
- ④ The Bluetooth device will be send the data to intermediate device and the then further it will processed to server.
- ④ 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

- ④ We do not have to replace or modify existing machines.
- ④ Implementation will be very easy and cost-effective.
- ④ More trust because of real-time data synchronization