SMART INDIA HACKATHON '17

WORLD'S BIGGEST HACKATHON

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SMART INDI

HAC ATHON '1

WORLD'S BIGGEST DIGITAL MOVE

INSYNC

MINISTRY OF ROAD TRANSPORT AND HIGHWAYS

BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY
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IDEA/APPROACH DETAILS

Ministry category: Ministry of Road Transport And Highways **Problem code**: #RH8

Problem Statement: An App to locate nearest petrol pump along the national highways with the details regarding the time of operation and other services available.

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IDEA/SOLUTION

The main goal is to display nearest petrol pump on smartphones for users traveling on highways.

Scope:

Consider a person is travelling on national highway to some place and suddenly he realizes that his vehicle is low on fuel and he needs to find petrol pump nearest to his current location. So, this app helps him to find a petrol pump which is ***"nearest for him to reach".***

LANGUAGES/PLATFORMS

- Android SDK , JDK
- mySQL Server
- XML
- PHP

ARCHITECTURE

GET USER LOCATION

TURN ON GPS

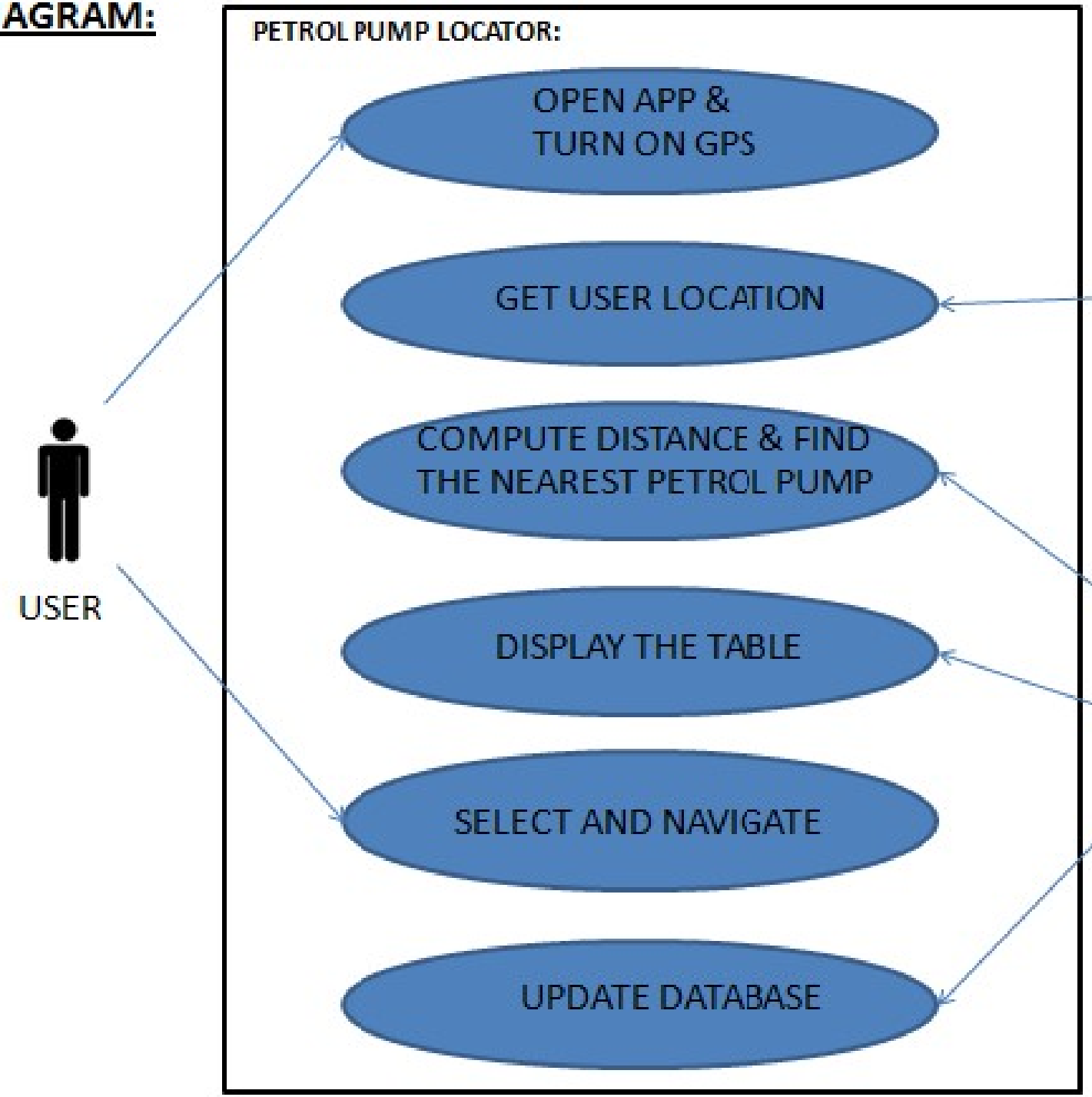
COMPUTE DISTANCE AND TIME

DISPLAY RESULT

ER APPLICATION

DATABASE SERVER

USE CASE DIAGRAM:



Dependencies

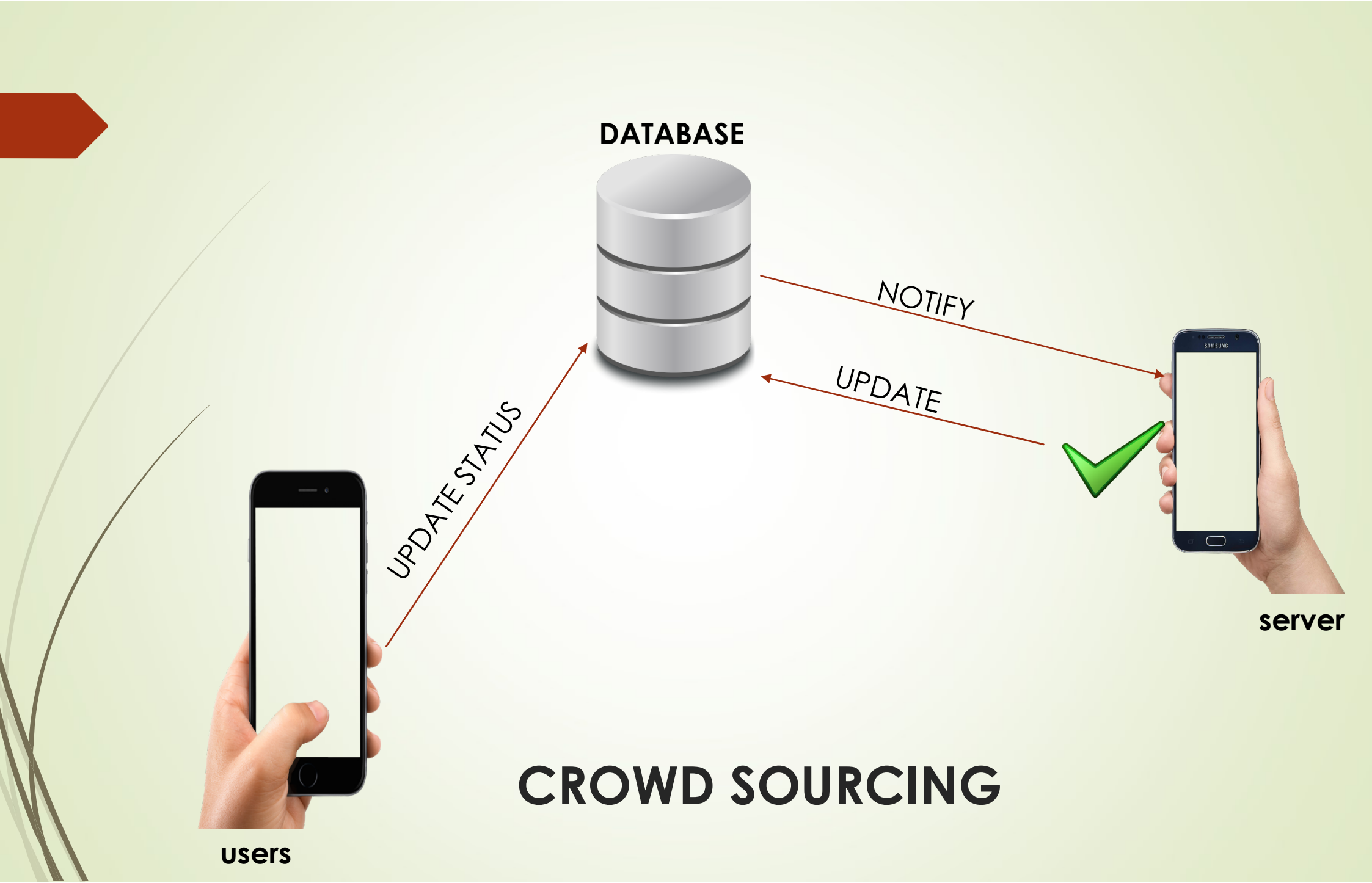
- Smart phone (Kitkat 4.4 and above) with Internet
- Android Studio
- Google APIs
- PC with minimum 4 GB RAM, 100GB Hard Disk and with Windows 7 OS

Advantages

- This application will display :
  - Petrol pumps on the screen that are in the near proximity of user.
  - Amenities available near the petrol pump.
- Customization and Localization of languages
- Other location based places like ATM, Hospital, Police station, car repair are integrated in a single app
- Gives a notification when user is 1000mts far from the petrol pump.
- Offline working
- Near by mobile mechanic
- Updating fuel availability information
- Public feedback

Future Enhancement

- Crowdsourcing for information about petrol availability and feedback
- Offline fetching of location using SMS gateway
- Mobile mechanic can be integrated for the highway vehicle
- Other places like Railway station, Restaurants, Public Toilets can be integrated with this app .


DATABASE
NOTIFY
UPDATE
UPDATE STATUS
server
users
CROWD SOURCING

How Revenue can be generated?

- Mobile mechanics can register to the app by paying to the app
- Advertisement

st / localhost / ac ×

localhost/phpmyadmin/index.php?token=e2a4d3e38bfd01f6ea5a41961e6d3f55#PMAURL-11:tbl_structure.php?db=academic_highway_petrol&table=p_petrol_bunks&server=1&target=8

MyAdmin

t tables) ...

emic_highway_petrol

nation_schema

rmance_schema

localhost » academic_highway_petrol » p_petrol_bunks

Browse | Structure | SQL | Search | Insert | Export | Import | Operations | Triggers

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	pb_id	bigint(20)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial
2	pb_name	varchar(100)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index Spatial
3	pb_address	varchar(100)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index Spatial
4	pb_lat	varchar(50)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index Spatial
5	pb_lng	varchar(50)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index Spatial
6	pb_opening_time	time			No	None		Change Drop Primary Unique Index Spatial
7	pb_closing_time	time			No	None		Change Drop Primary Unique Index Spatial
8	pb_phone_no	varchar(20)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index Spatial
9	pb_source	varchar(100)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index Spatial
10	pb_dest	varchar(100)	latin1_swedish_ci		No	None		Change Drop Primary Unique Index Spatial
11	pb_status	int(11)			No	1		Change Drop Primary Unique Index Spatial
12	Availability	varchar(3)	latin1_swedish_ci		No	Yes		Change Drop Primary Unique Index Spatial

Check All *With selected:* Browse Change Drop Primary Unique Index

Print view Relation view Propose table structure Move columns

Add 1 column(s) At End of Table At Beginning of Table After pb_id Go

+ Indexes

Information

Space usage	
Data	16 KiB
Index	0 B
Total	16 KiB

Row statistics	
Format	Compact
Collation	latin1_swedish_ci
Next autoindex	5
Creation	Apr 02, 2017 at 12:37 PM

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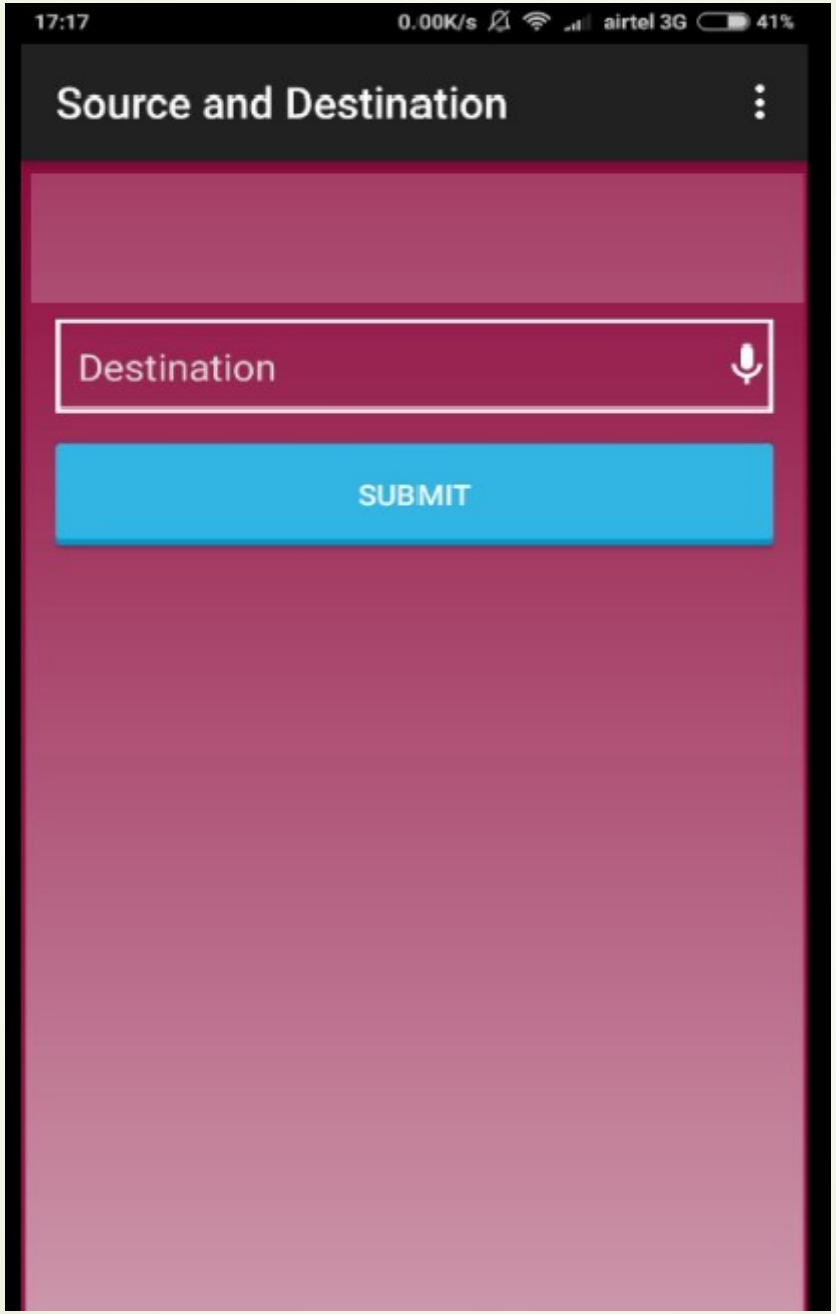
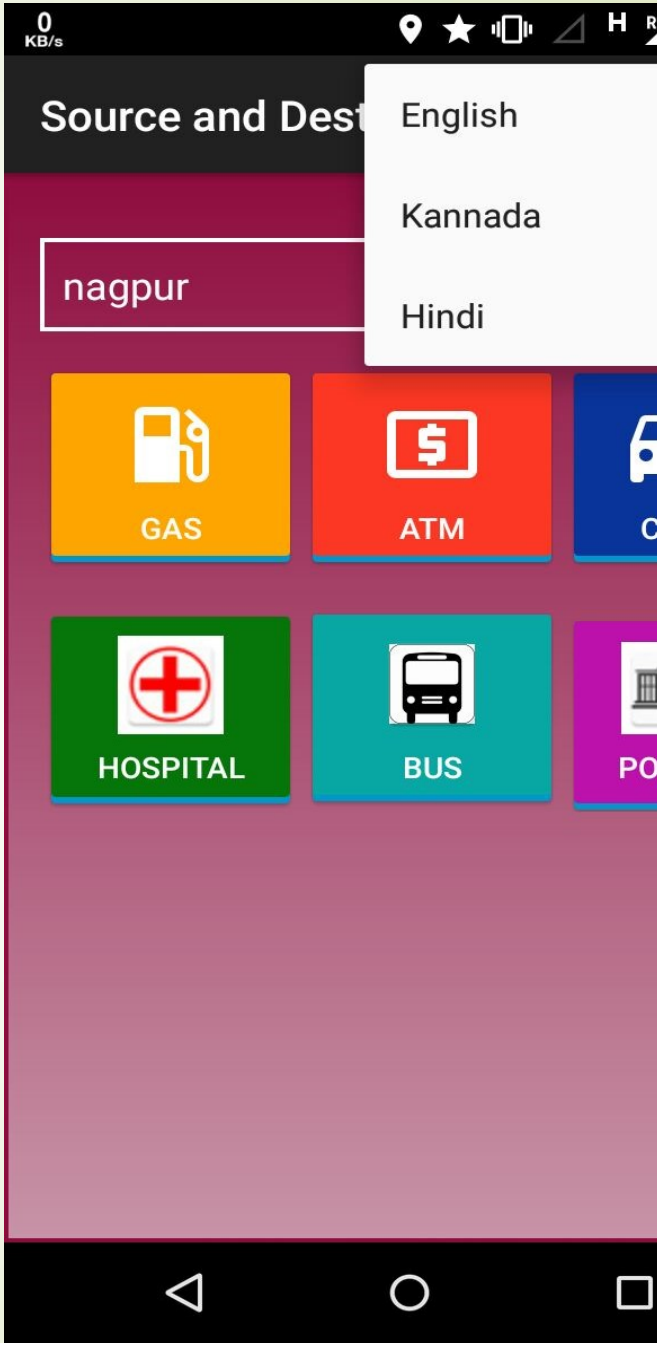
ENG

First screen

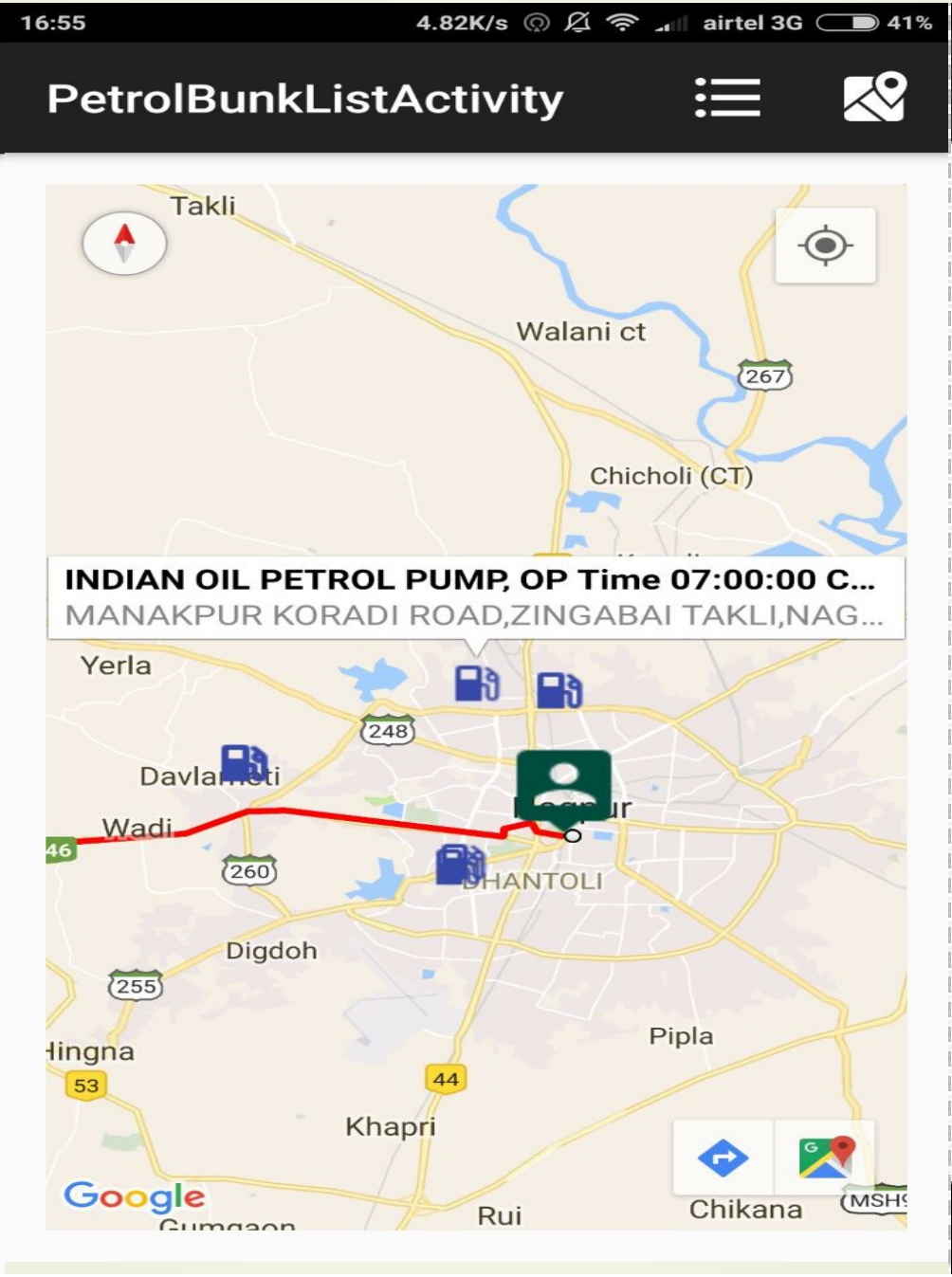
Second screen



Third screen



Fourth screen

Fifth screen

Sixth screen