



MINI PROJECT PRESENTATION WASTE MANAGEMENT SYSTEM DEPARTMENT OF INFORMATION TECHNOLOGY

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OBJECTIVE

- TOP DEVELOP A SMART WASTE MANAGEMENT SYSTEM
 - SEPARATE PORTAL FOR ADMIN , DRIVERS AND USERS
 - A DATABASE TO STORE DATA OF BINS AND PUBLIC COMPLAINTS
-
- DRIVERS TO DEPLOY BINS TO SPECIFIED LOCATIONS THROUGH MAPS
 - BASED ON DATA GARBAGE TRUCKS CAN BE GIVEN ROUTE THROUGH GOOGLE MAPS API



Android Studio

TOOLS AND TECHNOLOGY



Platform : ANDROID STUDIO



Language : KOTLIN



Database : FIREBASE



- ❑ Home page consists of
3 sections
admin login
registered user and
driver

Waste Management

CREATE BIN

UPDATE BINS

CREATE DRIVER

VIEW REPORTS

VIEW PUBLIC COMPLAINTS

- **Admin job**

- >create bins

- >update - them if any error in them
or delete

- >create driver and assign bin id and
username and password for login into
driver section of homepage

- >view reports- of those driver who
have completed their task.

- >view public complaints of
registered user and update them.

Waste Management

Add Bins

Select Load type

High

- Create bin section(admin)
admin enters details of
area where bin is going to
be placed with unique key
for each bin.
-

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Update data

Manager

Locality

ordinance factory

Landmark

KIET group of institutio

City

Ghaziabad

Selected Load type

low

Cycle period

Daily

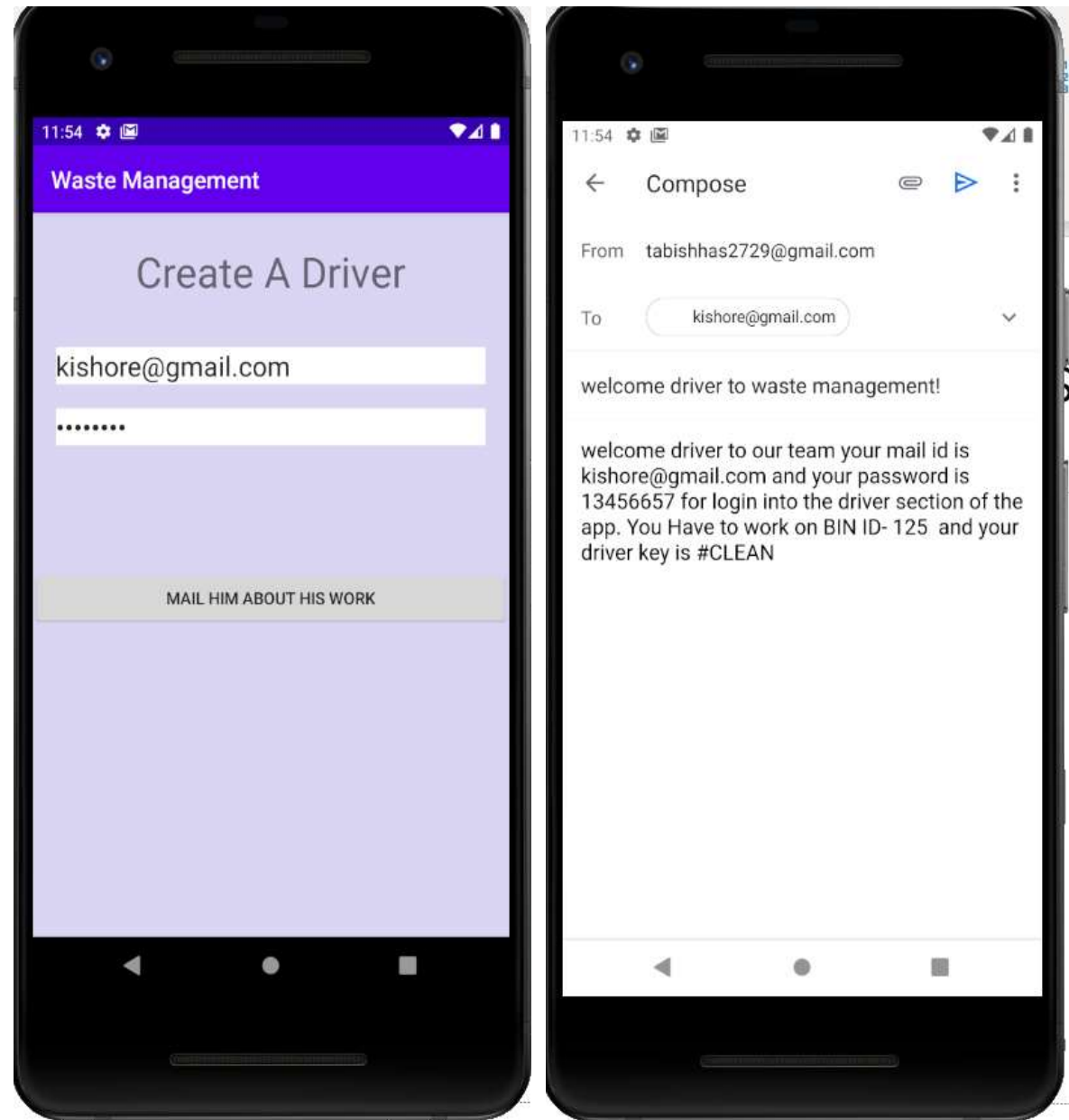
complete

UPDATE DELETE

- Update bin (admin)-

if any error or bin is removed from any area then admin will update the details or delete the bin

- Create driver section (Admin) admin mails to driver that what's their user and password for login and on which bin id they have to do their work.



Waste Management

122	Golghar
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454	Gita pres
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1001	Urdu ba
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2001	Halsiga
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- View reports (admin)

admin can see which
drivers have done
their job using the
bin-id

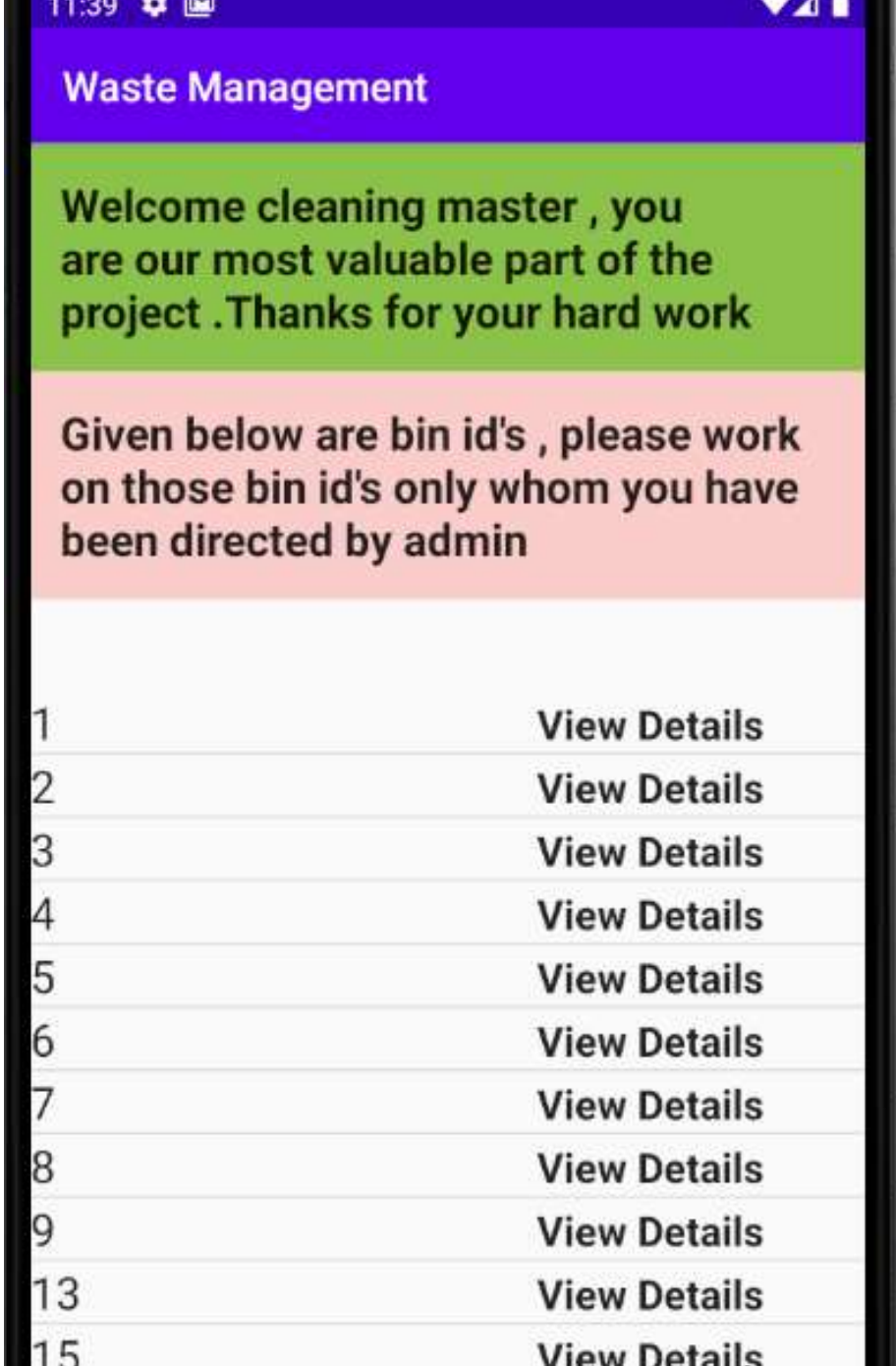
Waste Management

See Complaint

- View public

complaints(admin)

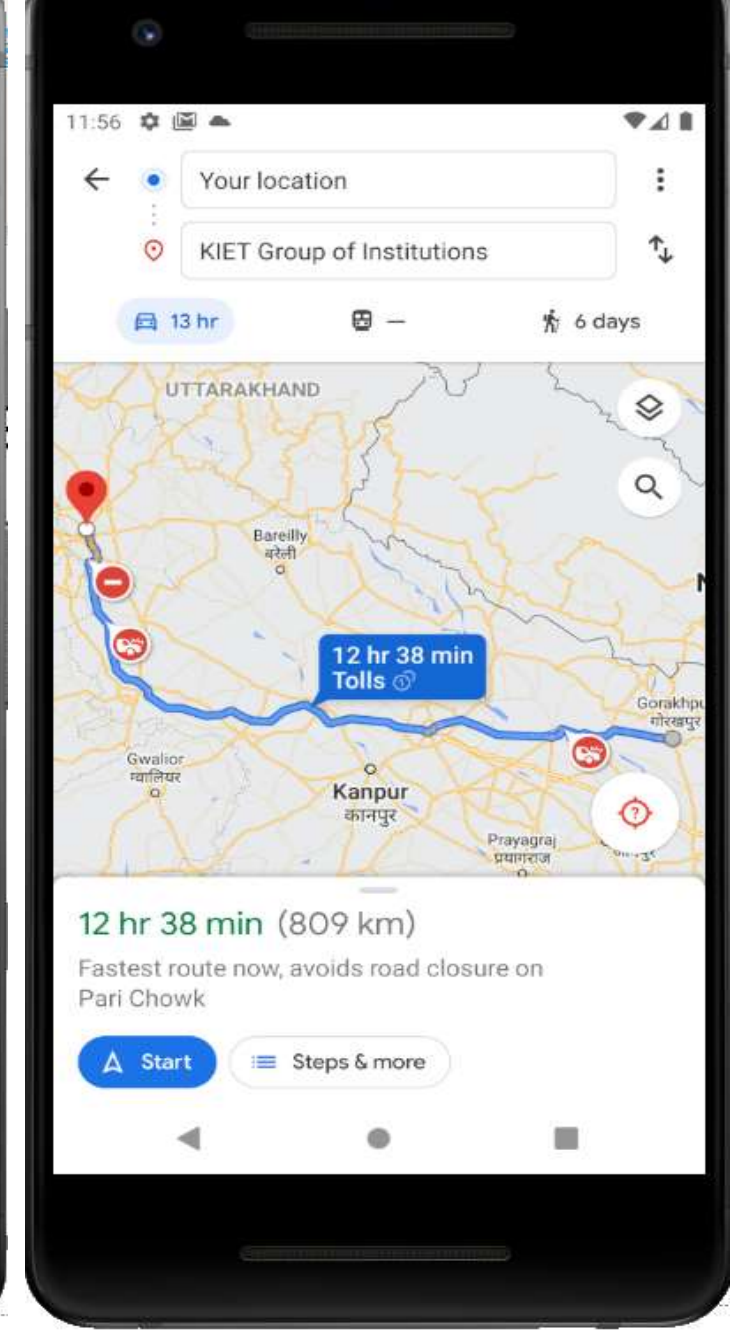
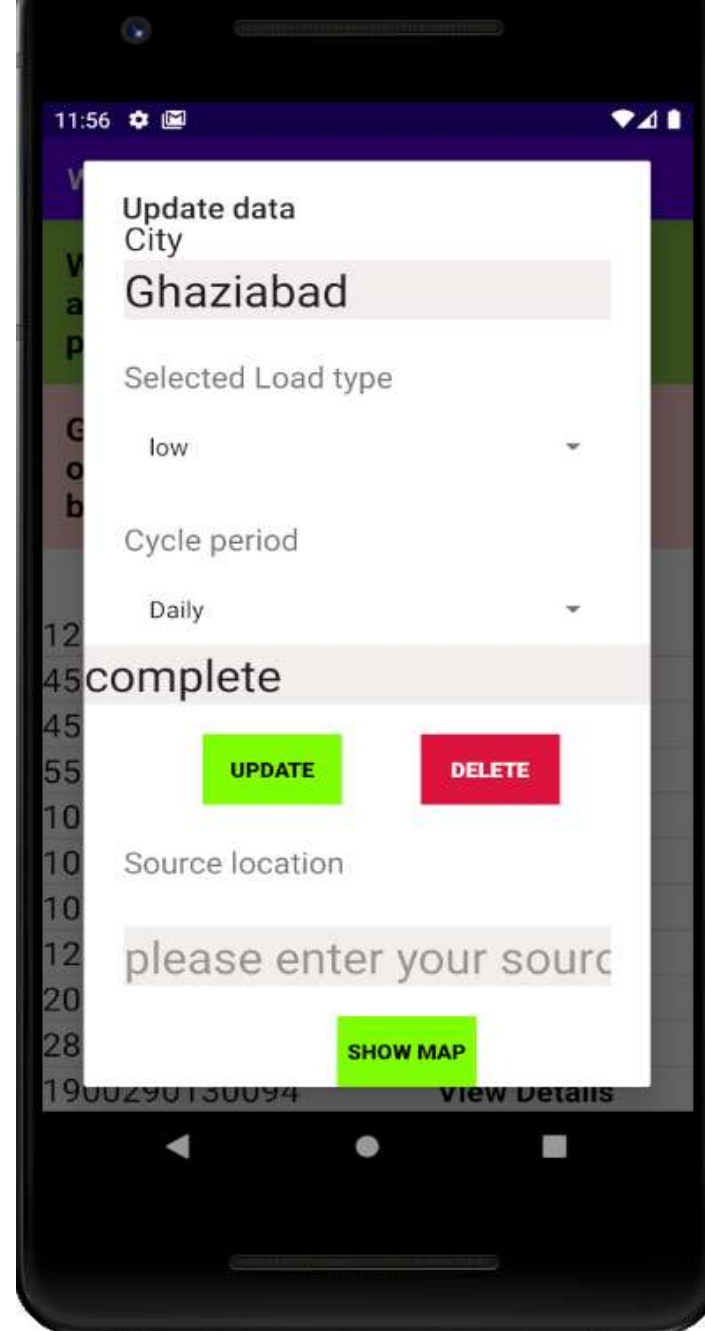
-admin monitors user
complaints and updates them
when query is solved.



- Driver section-

driver one will login and click on only those bin id which assigned by admin and when work is done update them accordingly.

- Driver section-
driver selects the bin and gets the map to bin and he goes there updates the work which admin can see in view reports section of the app



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Waste Management

Post Your Complaints Below

Name

Enter Area Name

Enter Locality Name

Landmark

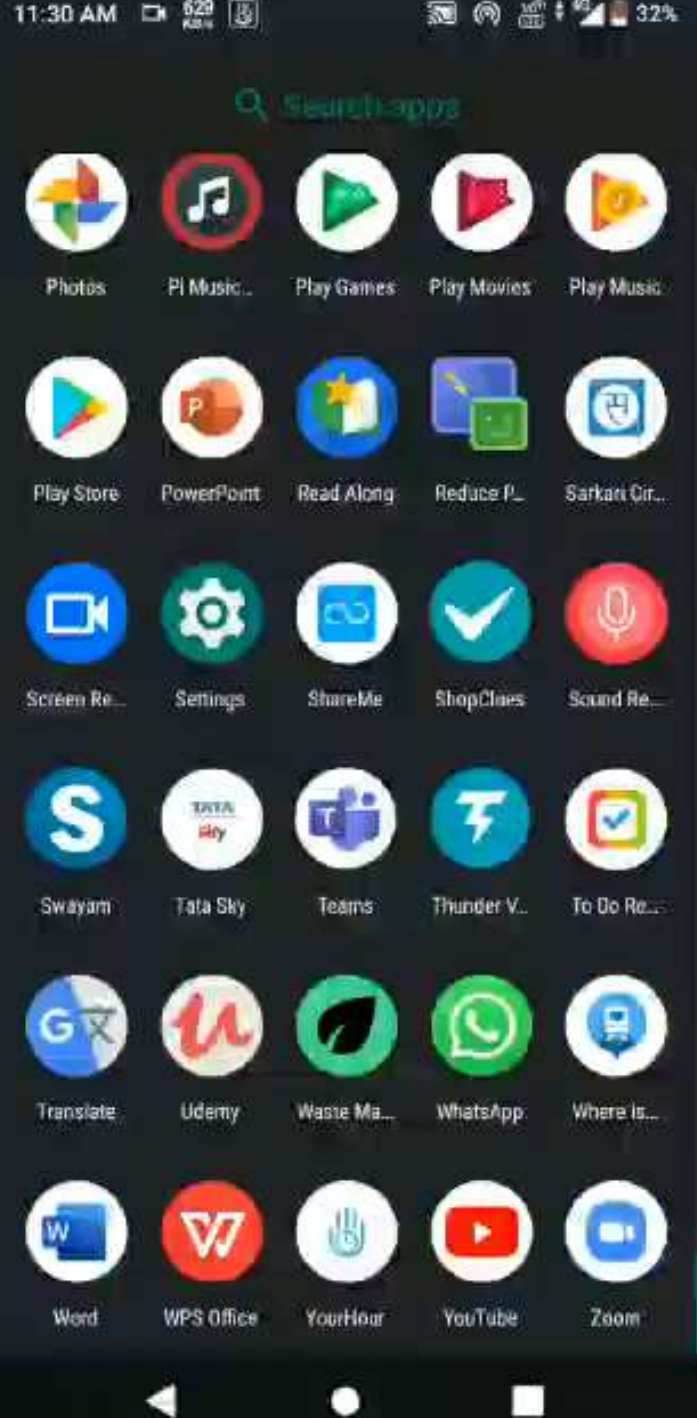
City

Please Provide Some Detailed Information

SUBMIT COMPLAINT

- Registered User section

here any registered user can post complaint of the bins placed in his area which admin will see in public complaints section.



REFERENCES

COMPANY : UDEMY

URL :

<https://www.udemy.com/course/android-kotlin-developer/learn/lecture/>