POTHOLE CHALLENGE

TEAM NAME: WHIZ-KIDS

MINISTRY : Government Of Goa

CATEGORY : Software

TECHNOLOGY BUCKET: Mobile App Development

PROBLEM STATEMENT: The state of Goa is facing one of the biggest problem of potholes. Biggest problem in solving the problem of pothole is lack of coordination between concerned departments. The aim is to build mobile based dynamic reporting system which will facilitiate into flow of information among all concerned stakeholders. The aim is also to provide better Governance by more involvement of public.

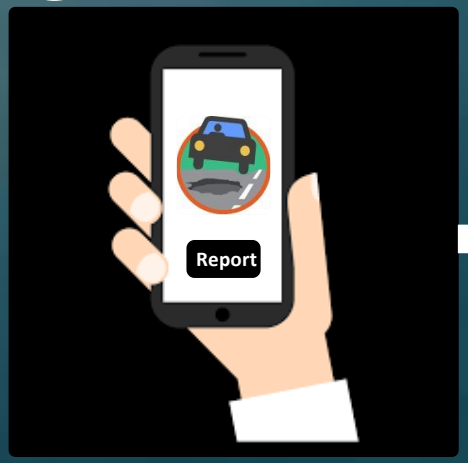
TEAM MEMBERS: Ameesha Jain , Aishwarya Verma ,Ayushi Dixit ,Anukriti Sharma , Abhitansh Gupta , Bhagya Singh Purba

PROTOTYPE

1

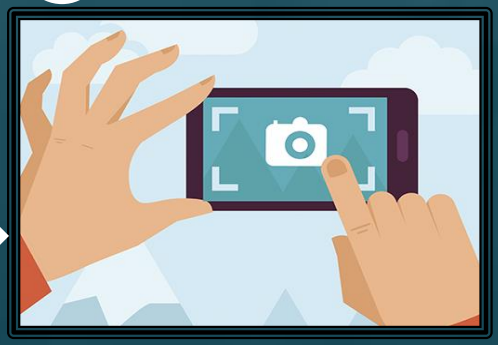
1. POTHOLE SPOTTED

2



2. LOGIN AND REPORT INTO OUR MOBILE APP

3

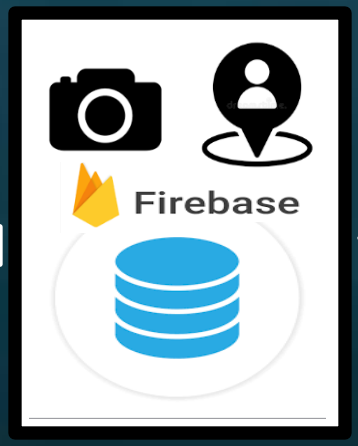


3. CLICK THE PHOTO OF THE POTHOLE BY USING OUR APP

4

4. GIVING THE LOCATION OF POTHOLE BY USING GPS.

5

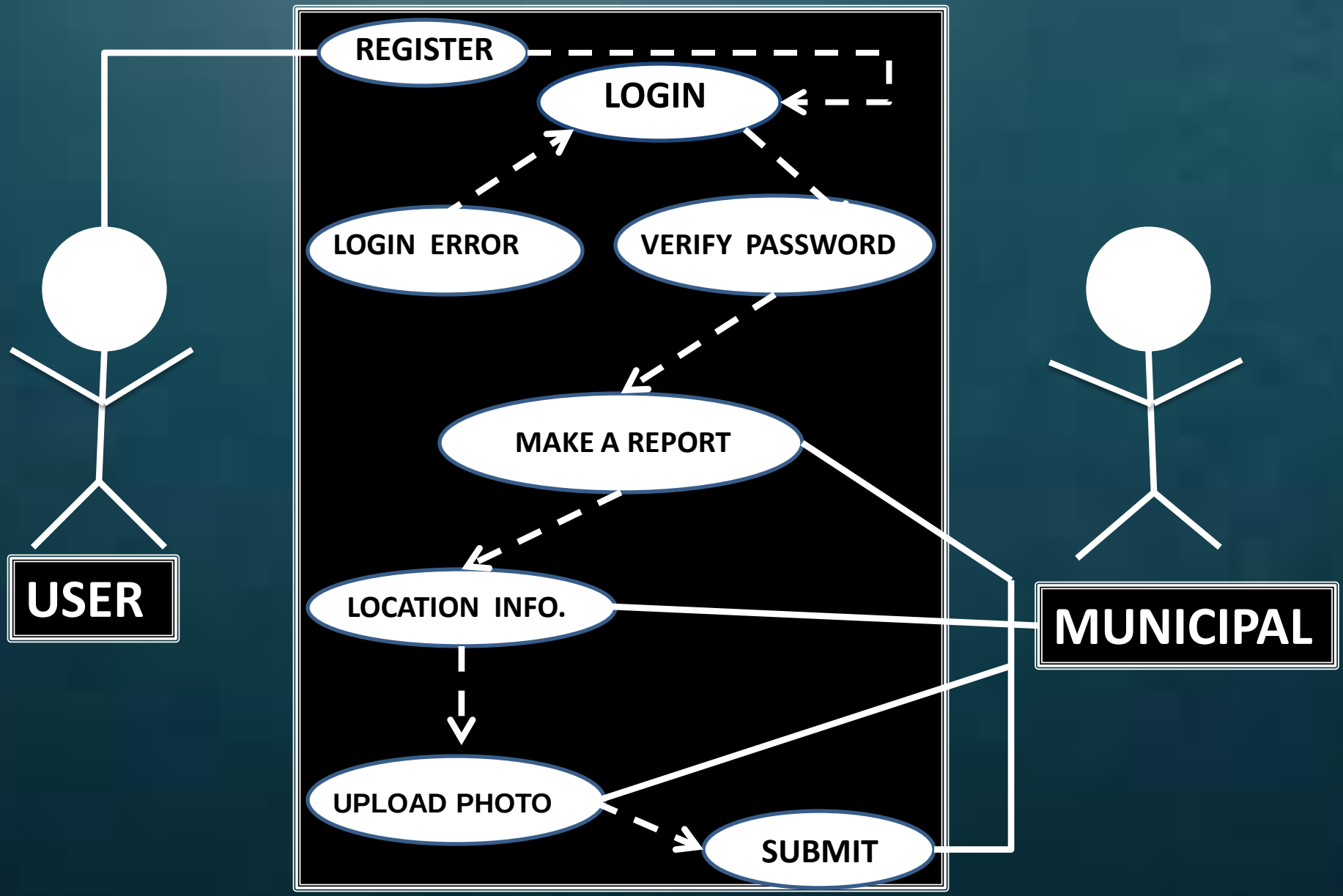


5. STORING INFO. GIVEN BY USER

6

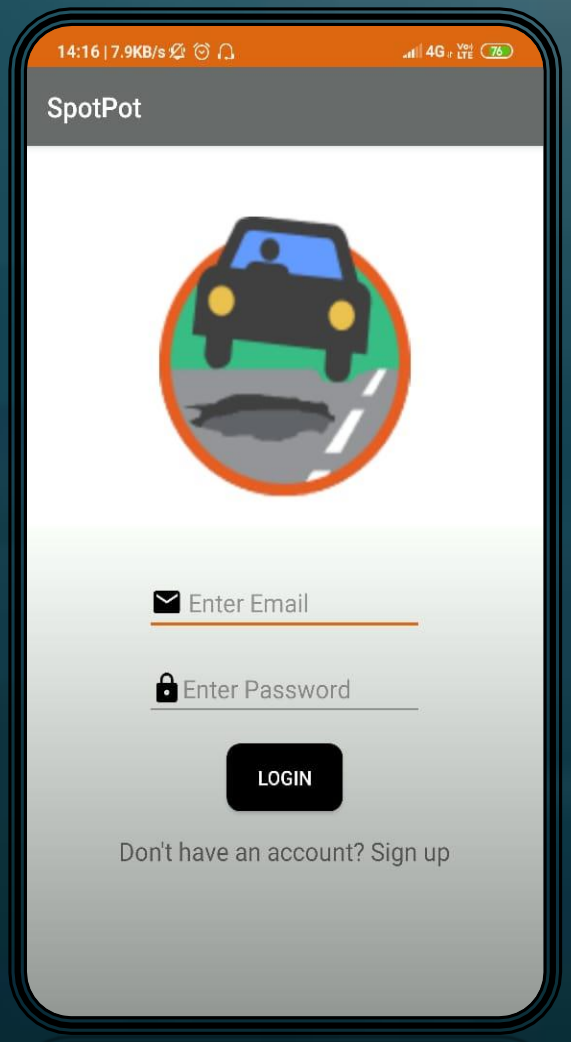
6. PROVIDING STORED INFO TO MUNICIPAL CORPORATION

USE CASE DIAGRAM

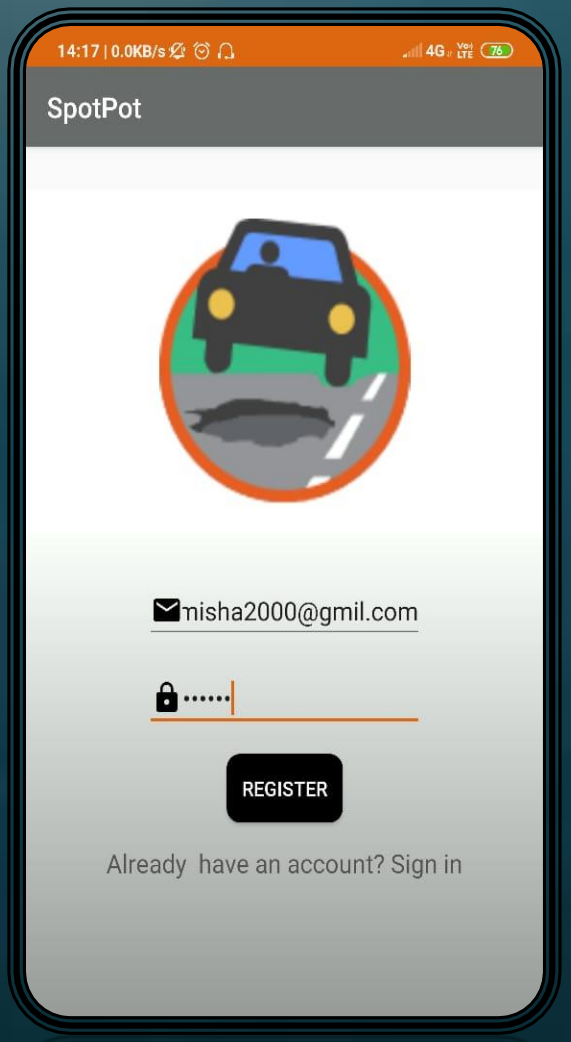


WORKING OF OUR APP

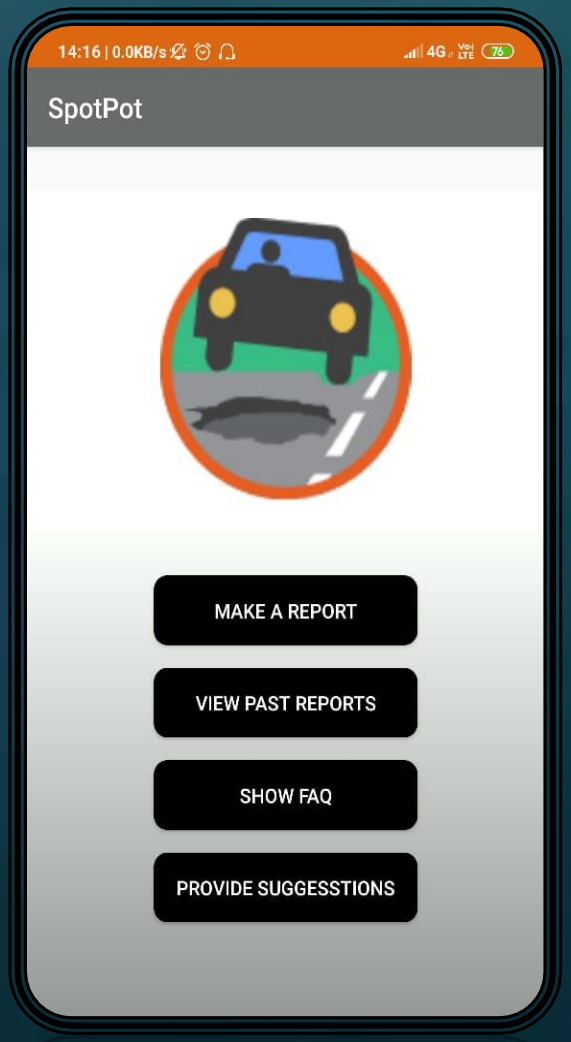
1. LOGIN INTO OUR APP IF REGISTERED



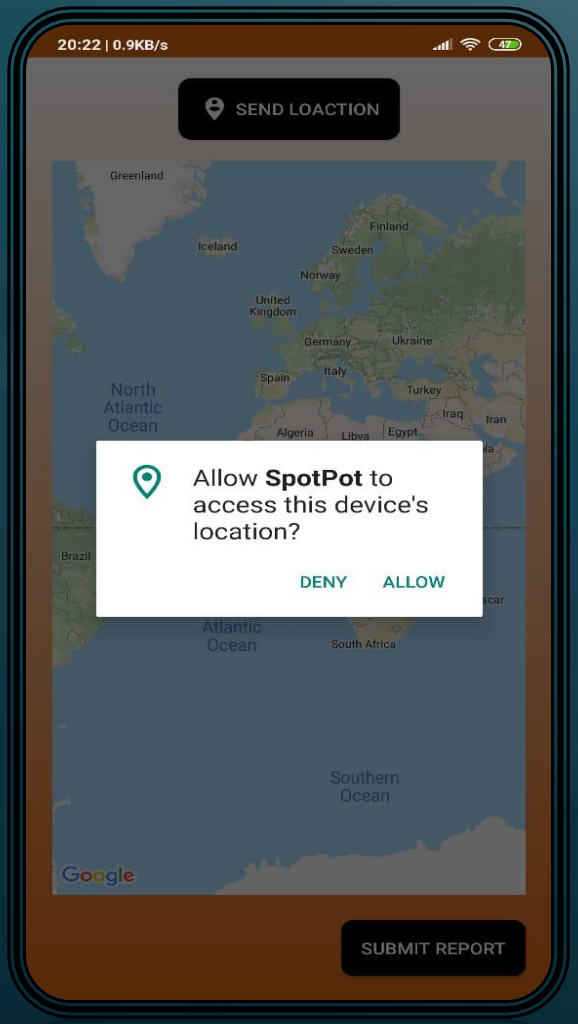
2. IF NOT THEN REGISTER YOURSELF HERE



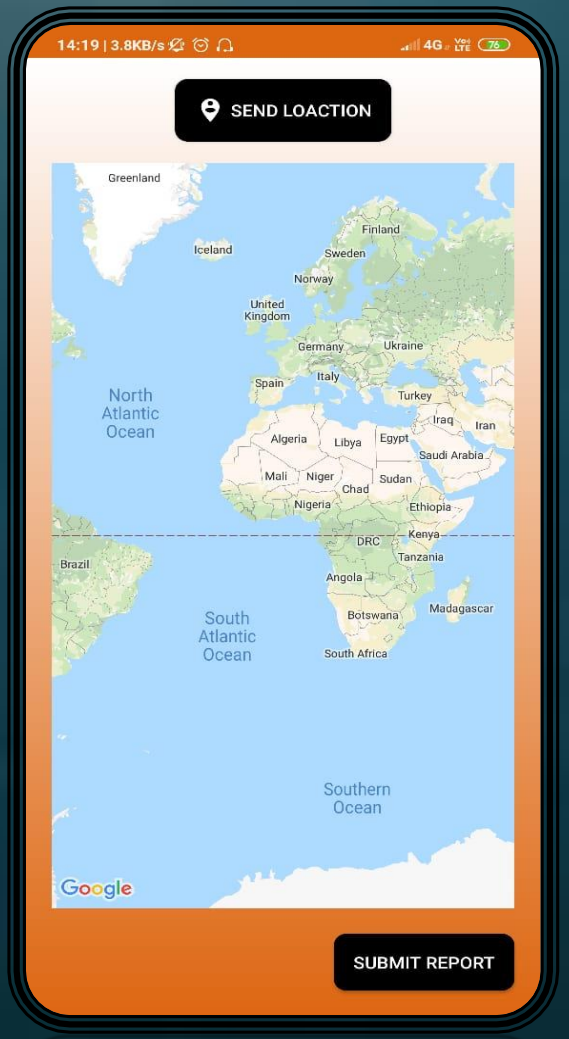
3. AFTER LOGIN CLICK ON "MAKE A REPORT"



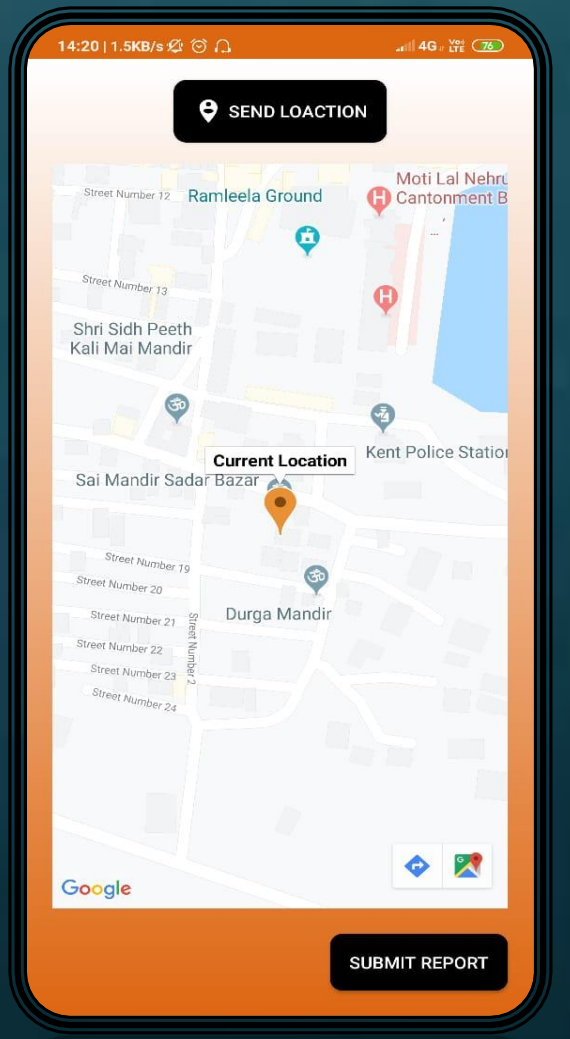
4. AFTER CLICKING ON“MAKE A REPORT” LOCATION ACTIVITY OPENS



5. WHEN USER CLICK ON “SEND LOCATION” IT SEARCH FOR CURRENT LOCATION



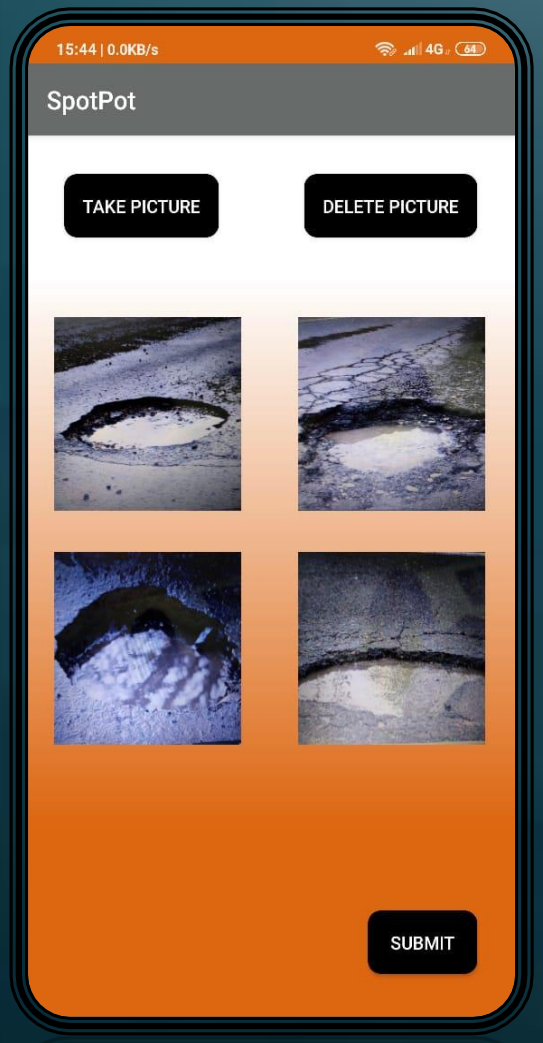
6. WHEN CURRENT LOCATION IS FOUND USER WILL CLICK ON “SUBMIT”

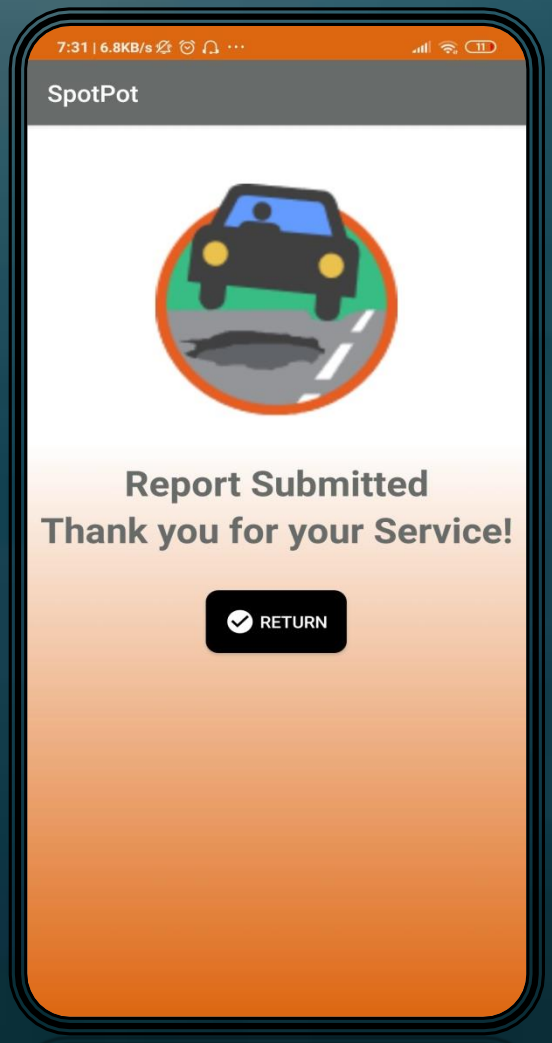


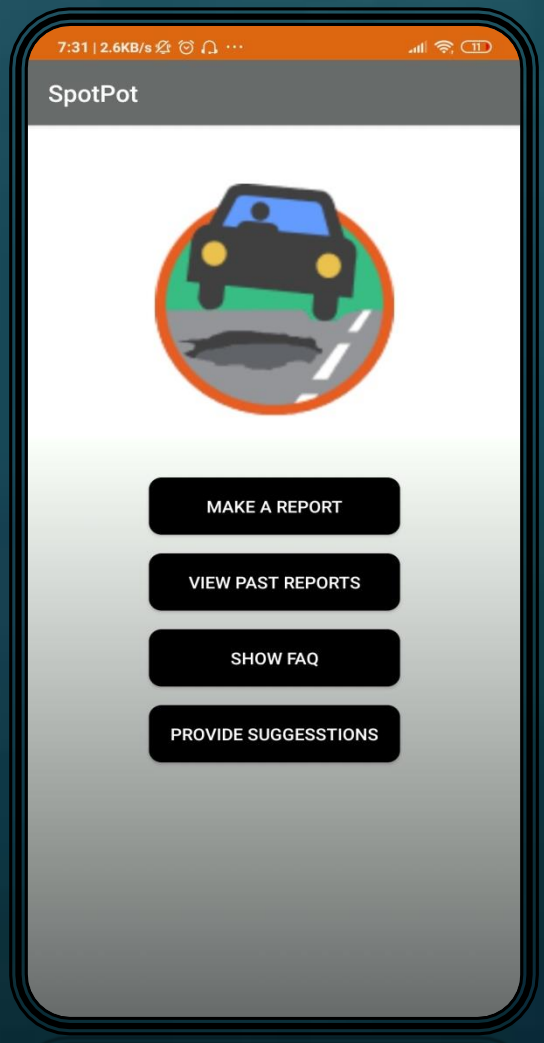
7. AFTER SUBMITTING LOCATION CAMERA ACTIVITY OPENS AND USER TAKE PHOTO AND CLICK “SUBMIT”

8. WHEN REPORT IS SUBMITTED A ACTIVITY IS SHOWN OF SUCCESSFUL SUBMISSION

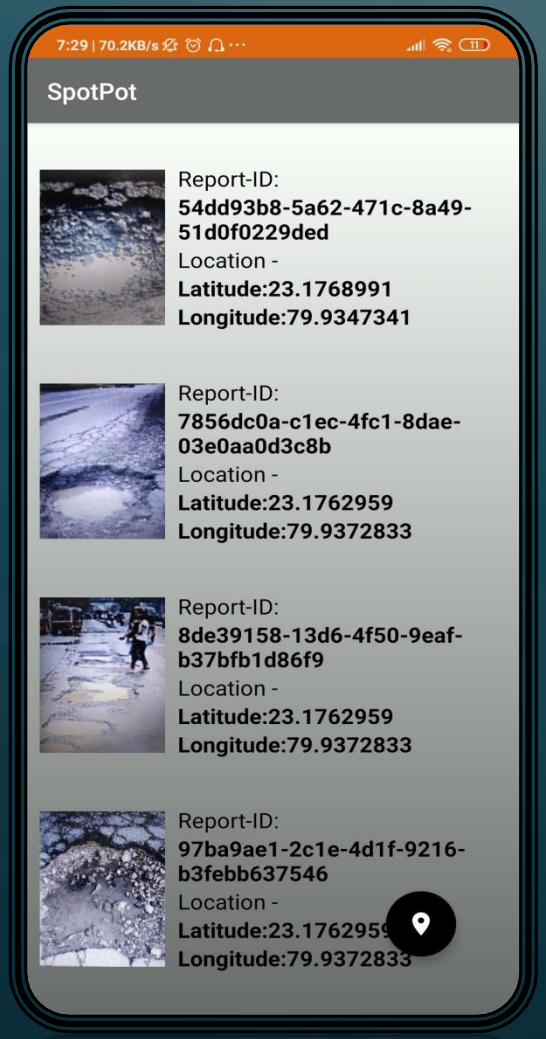
9. IF A PERSON CLICKS “RETURN” THEY WILL COME TO MAIN MENU



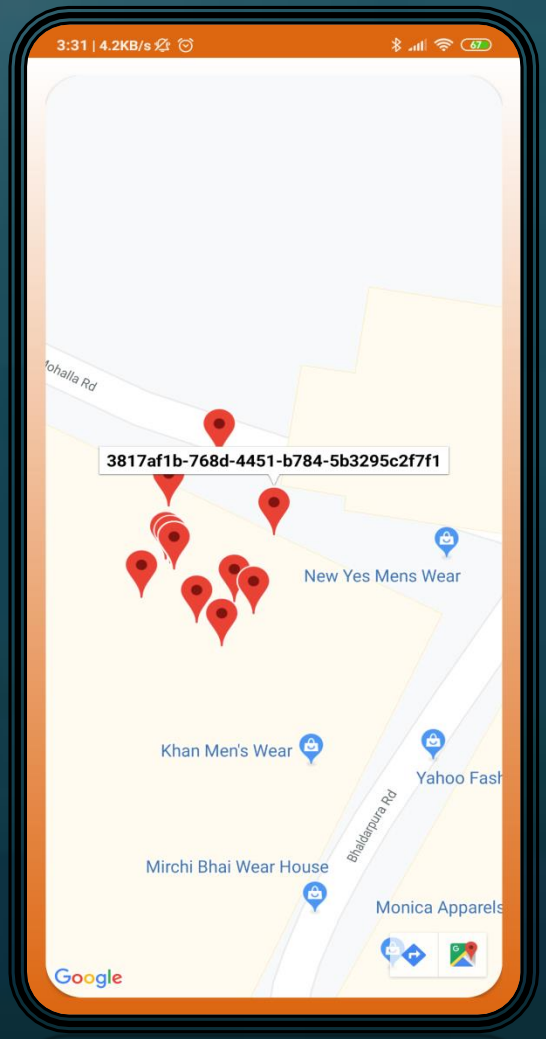




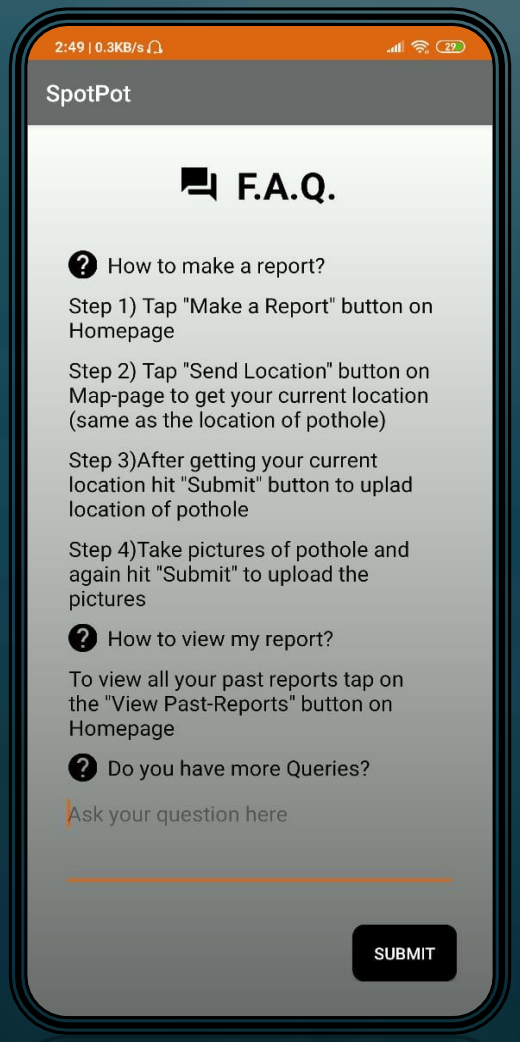
10. WHEN USER CLICK “VIEW PAST REPORTS” , ACTIVITY SHOWN BELOW OPENS



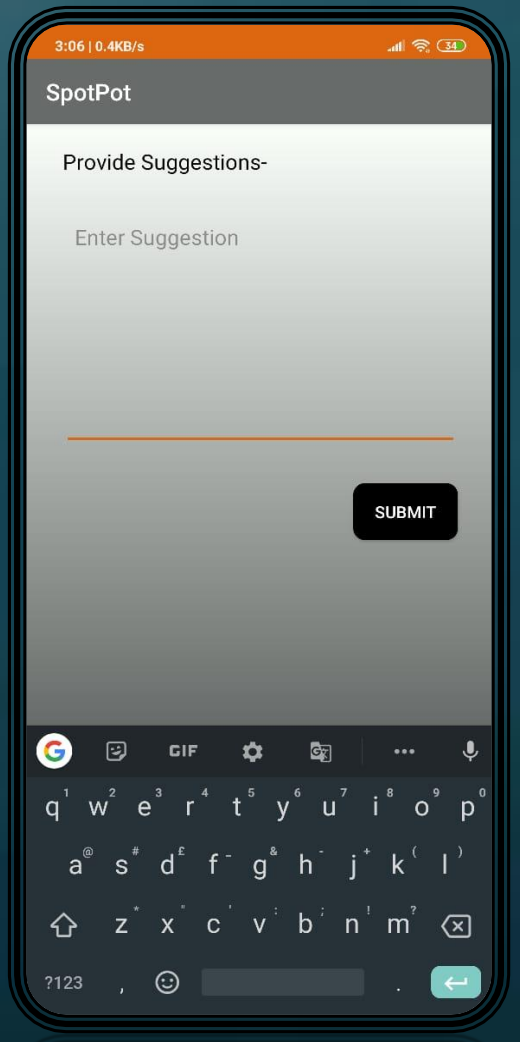
Location of all potholes can be seen on a map using the pin button.



11. WHEN A USER CLICK ON “SHOW FAQ” AN ACTIVITY DISPLAYING FAQ IS OPENED

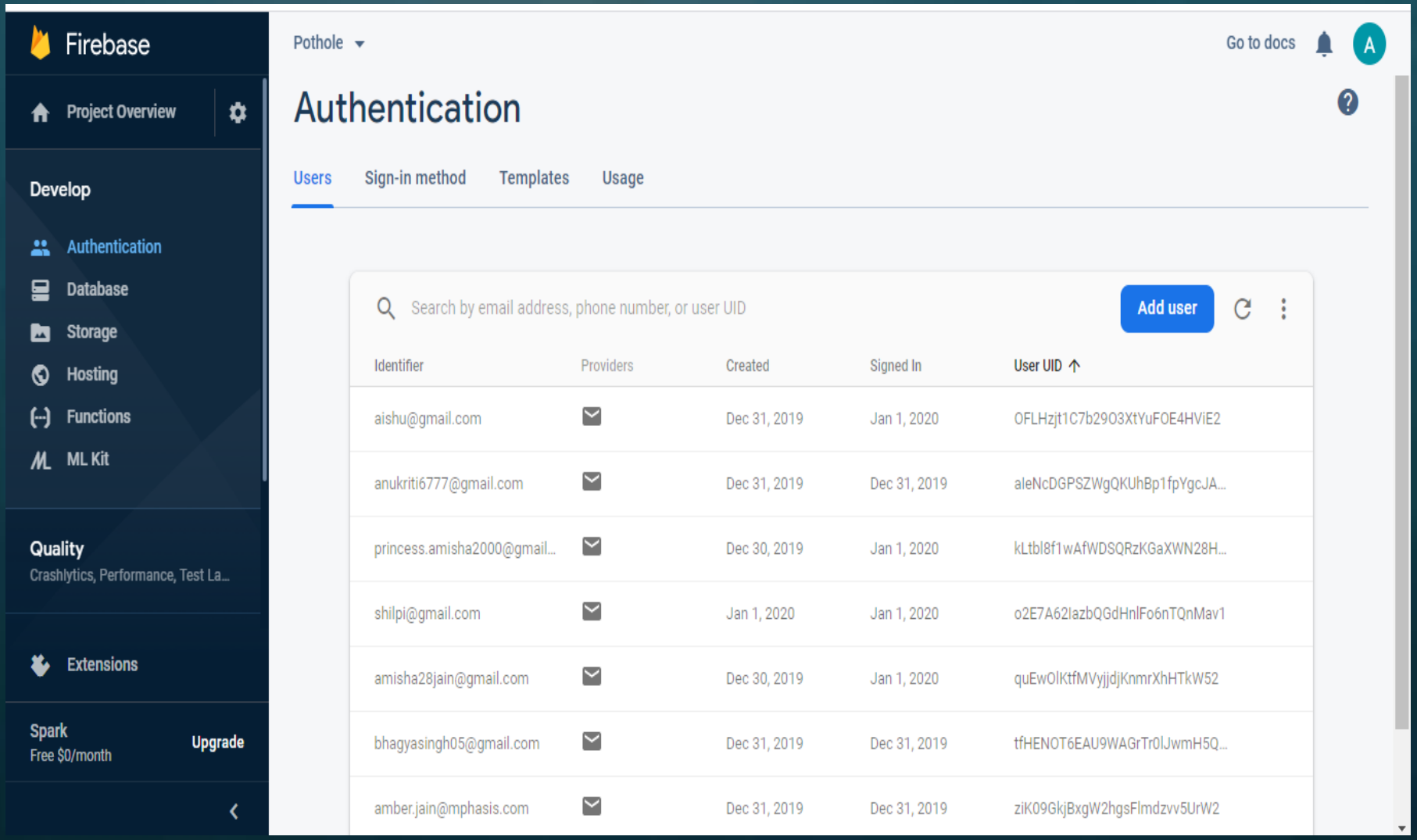


12. WHEN USER CLICK “PROVIDE SUGGESTIONS” AN ACTIVITY OPENS WHERE USER SUBMIT SUGGESTIONS.

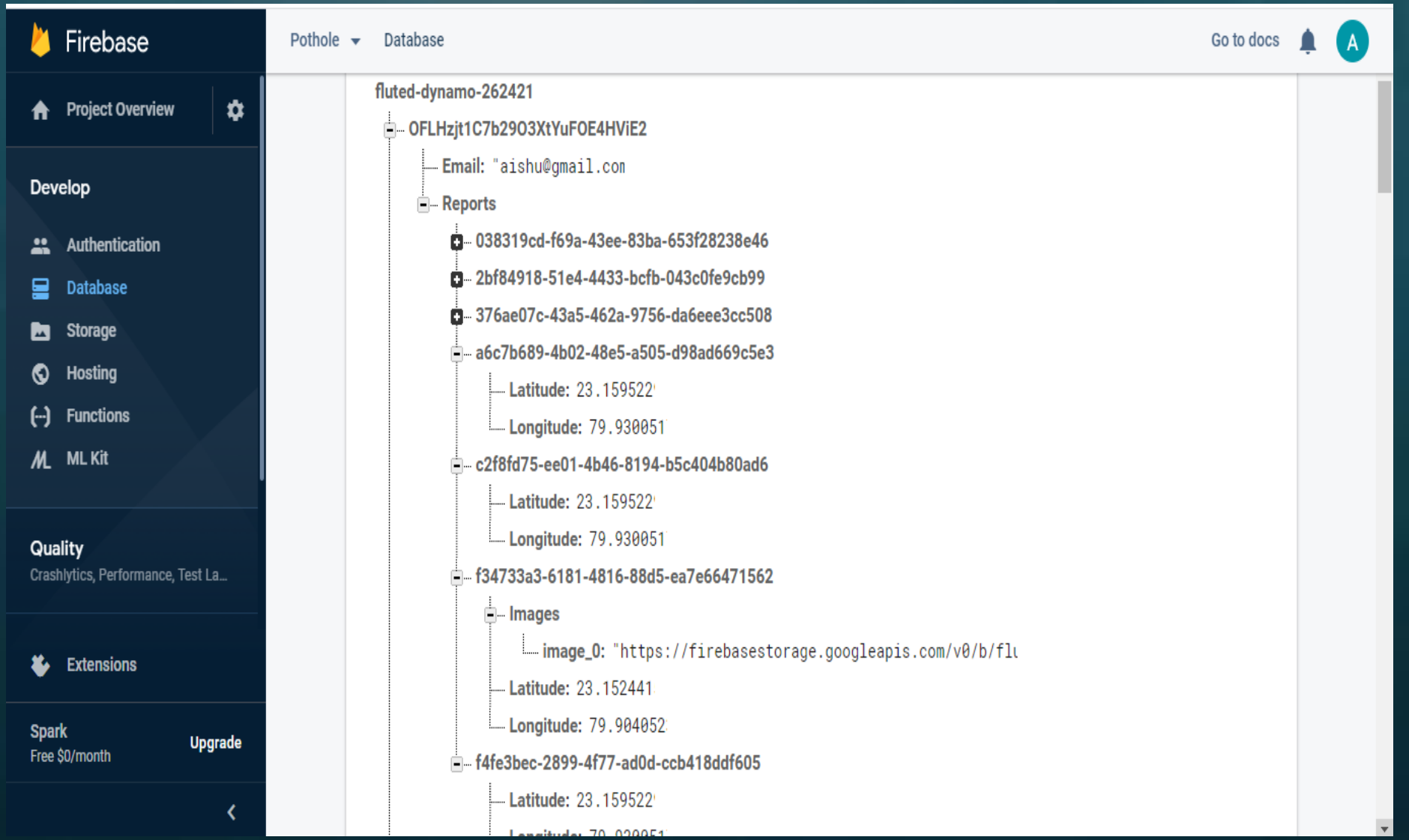


DATABASE CONNECTIVITY OF OUR APP

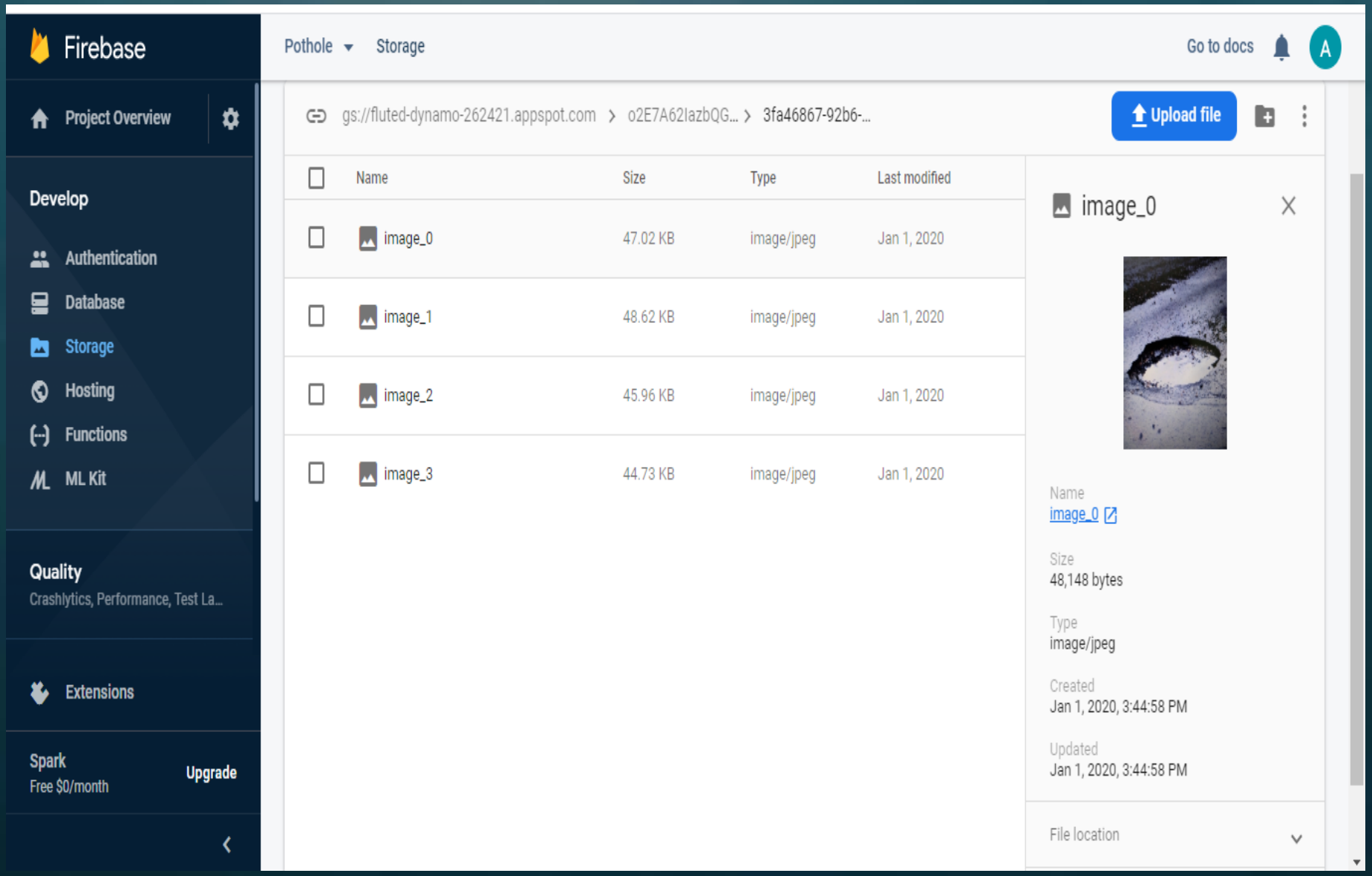
1. WHEN A USER LOGIN INTO OUR APP THEN THERE LOGIN INFO. IS STORED OUR DATABASE AND EACH USER IS ASSIGNED A UNIQUE USER UID.



2. WHEN A USER SUBMIT THE LOCATION AND IMAGE OF POTHOLE THE DETAILS ARE STORED IN THE DATABASE AND UNIQUE REPORT ID IS GENERATED

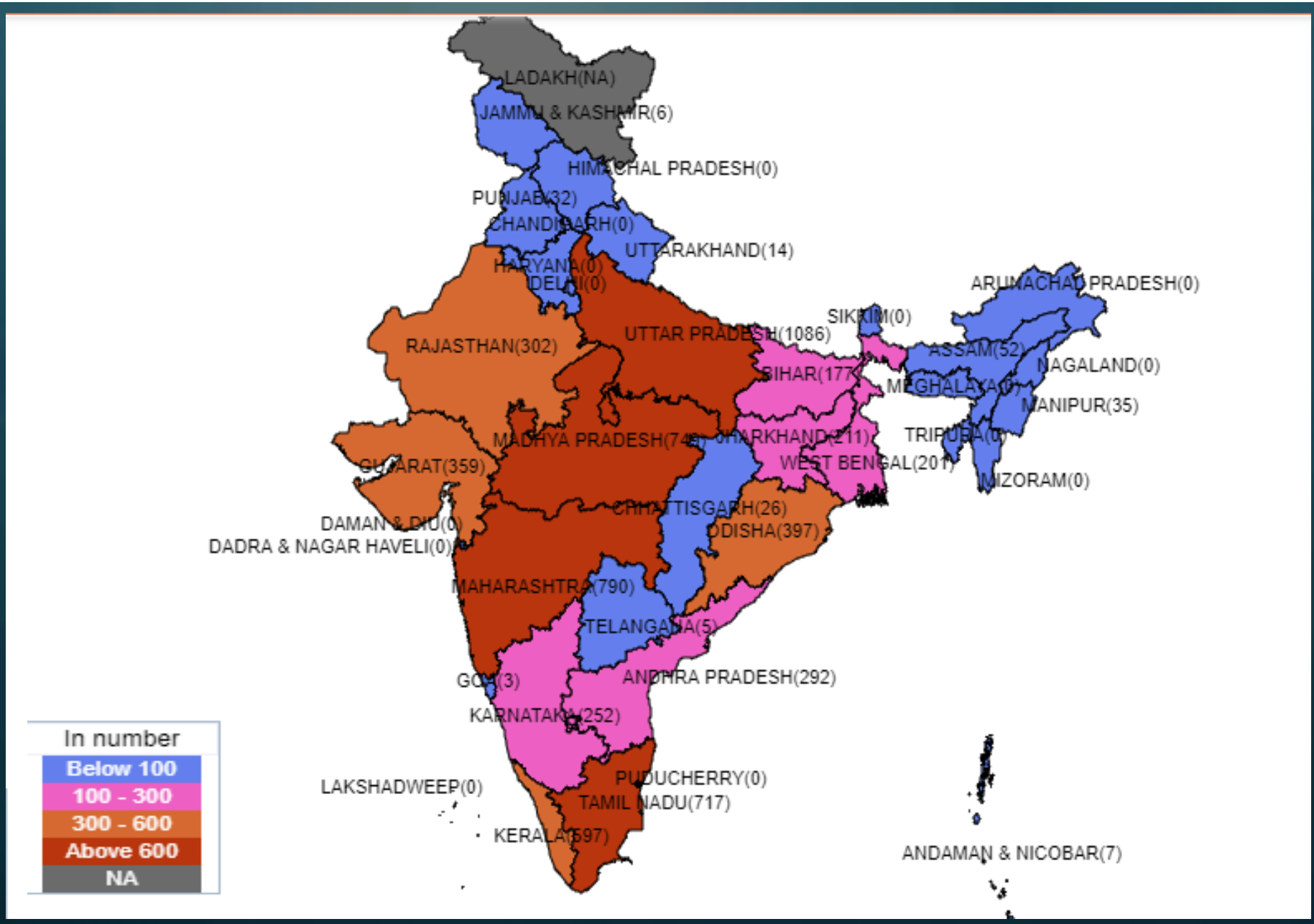


3. THE IMAGES SUBMITTED BY EACH USER IS STORED IN STORAGE SECTION OF DATABASE AND CAN BE ACCESSED WITH THE HELP OF UNIQUE USER UID AND REPORT ID



TECHNOLOGY STACK

NO. OF PEOPLE INJURED DUE TO POTHOLE IN 2015-17



DEPENDENCIES

1. THROUGH THIS APP TILL NOW WE CANNOT TELL THE EXCAT SIZE OF THE POTHOLE ABOUT WHICH THE USER REPORTS .

2. AFTER THE USER REPORTS ABOUT THE POTHOLE THROUGH OUR APP WE CANNOT SHOW OUR USERS THAT WHAT ACTIONS ARE TAKEN BY THE MUNICIPAL CORPORATION REGARDING THE REPORT.

THESE DEPENDENCIES CAN BE SOLVED IN FUTURE BY ENHANCING OUR APP.

CONCLUSION

OUR APP CAN BE USED TO PERFORM FUNCTIONS LISTED BELOW :-

1. REPORTING : OUR APP CAN SUCCESSFULLY REPORT THE POTHOLES TO THE MUNICIPAL CORPORATION.

2. DATA GATHERING: THIS APP WILL HELP THE GOVERNMENT TO GATHER THE INFORMATION REGARDING THE POTHOLES AND FREQUNCY OF THERE OCCURENCE.

3. DATA ANALYSIS : THROUGH THE DATA COLLECTED BY OUR APP WE CAN ANALYZE :
   - THE CONDITION OF ROAD
   - NUMBER OF ACCIDENTS CAUSED BY THE POTHOLE