

D.K.T.E. Society's Textile and Engineering Institute, Ichalkaranji.

(An Autonomous Institute)



DEPARTMENT OF INFORMATION TECHNOLOGY

2019-2020

Project report on

Virtual Tourist Guide

**Under the guidance of
*Prof.S.D.Rane***

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CERTIFICATE

This is to certify that **Group Members:**

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Have successfully completed the mini project work, entitled "Virtual Tourist Guide"

In partial fulfillment for the award of degree of Bachelor of Technology in Information Technology. This is the record of their work carried out during the academic year 2019-2020.

Date:

Place: Ichalkaranji

Prof.S.D.Rane

Prof.(Dr.) D.V.Kodvade

[Project Guide]

[HeadofDepartment]

Prof.(Dr.) P.V.Kadole

[Director/Principal]

DECLARATION

We the undersigned students of T.Y. B.Tech I.T. declare that the field work report entitled written and submitted under the guidance of **Prof S.D.Rane** is our original work. The empirical findings in this report are based on the data collected by us. The matter assimilated in this report is not reproduction from any readymade report.

Date:

Place: Ichalkaranji.

Name

Signature

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1.ABSTRACT

In the application which renders information about the monument or landmark just by taking their live pictures as inputs .In other word the application should allow the user to click a photograph and based on the picture it should display information about the monument /landmark.The user should add the complaint regarding landmark. The application should also be able to keep statistics about the number of users referencing monuments/ landmarks .

2.PROBLEM STATEMENT

Due to lack of manpower to guide tourists, develop a mobile application which can guide tourists virtually.

3.INTRODUCTION

- Purpose:

Users get detailed information about any monument/landmark by just clicking its picture.

- Scope of the project:

The application will work as a tourist guide, it is proposed due to lack of manpower to guide the tourists.

4.PROBLEM DESCRIPTION

- We are proposing a mobile application 'Virtual Tourist Guide' built on teachable machine with the help of mobile net model.
- Users get detailed information about any monument/landmark by just clicking its picture.
- We have added an extra feature using text-to-speech API in which users can listen the available information instead of reading it.
- We are giving features such as activities, services where the user/tourist visit those places and enjoys the moments.
- Admin can see visitors' counts and their ratings about specific places.
- Admin can verify the complaints added by users and take action against complaints.

5.REQUIREMENT SPECIFICATION

- 1.We require this application to collect the appropriate images of landmarks/monuments.
- 2.Then we are required to train the images by using a teachable machine.
- 3.We have to collect the information of monuments in goa to display it on the application.
- 4.We collect the information of activities and services that we provide in our application.
- 5.We store all this information regarding landmarks and we require the firebase.

6.REQUIREMENT ANALYSIS

Functional requirement:

1.We require Images to display on application with their respective information.

2.The data which is the user count of who visited the particular place multiple times .

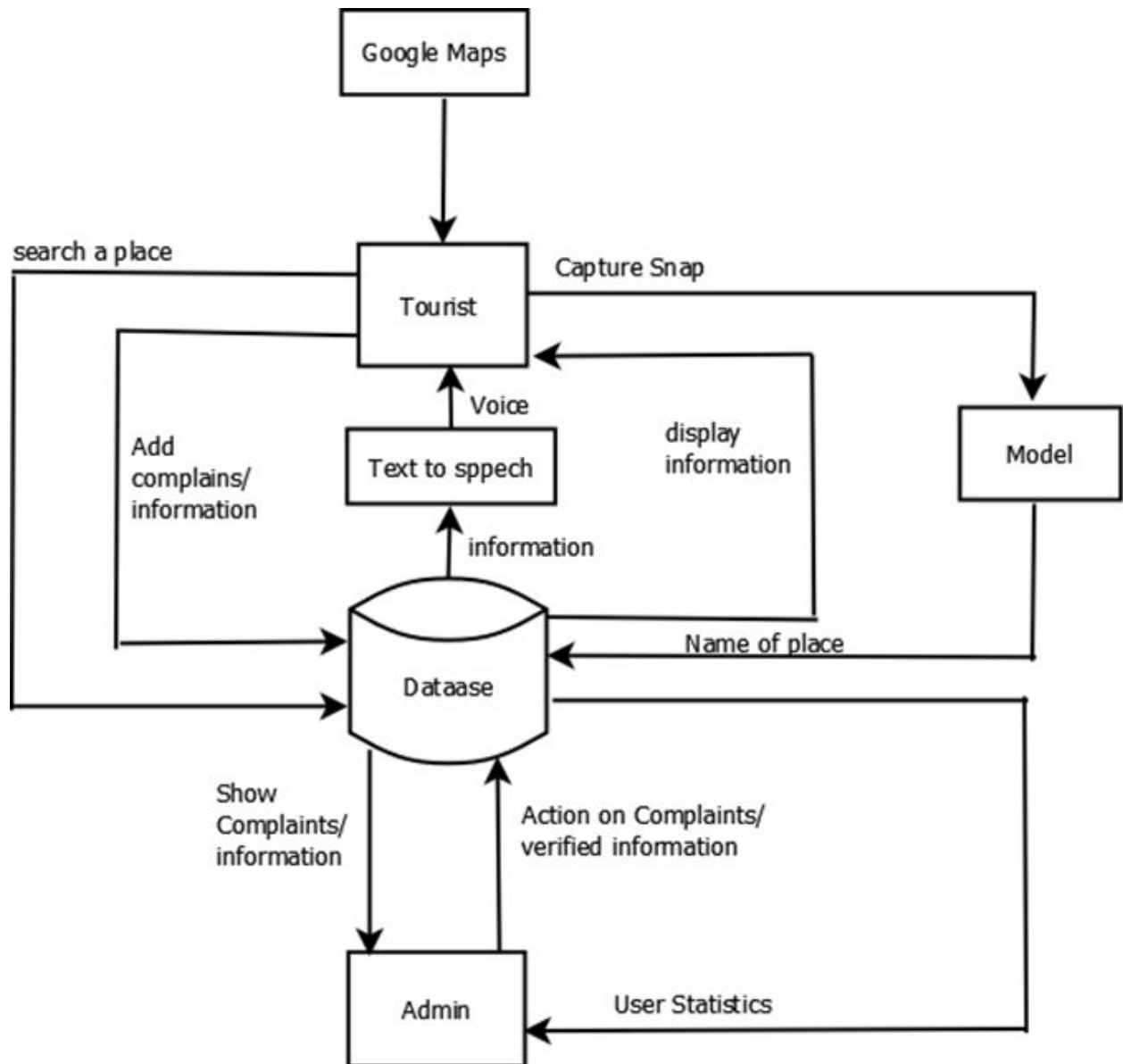
3.The information about activities/services done in goa .

4.The information of churches, temples,beaches,waterfalls etc.

5. The data of the user at the time of he/she register.

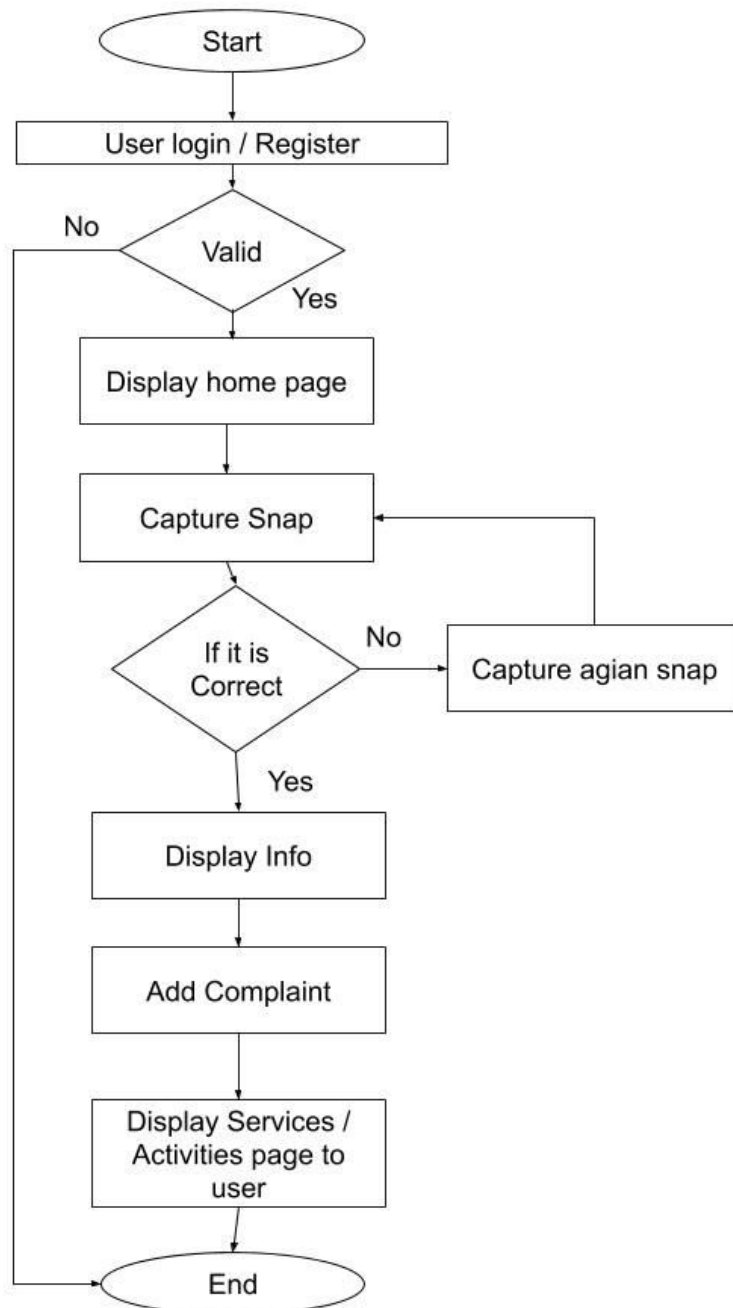
7.SYSTEM DESIGN

7.1 ARCHITECTURE DIAGRAM:

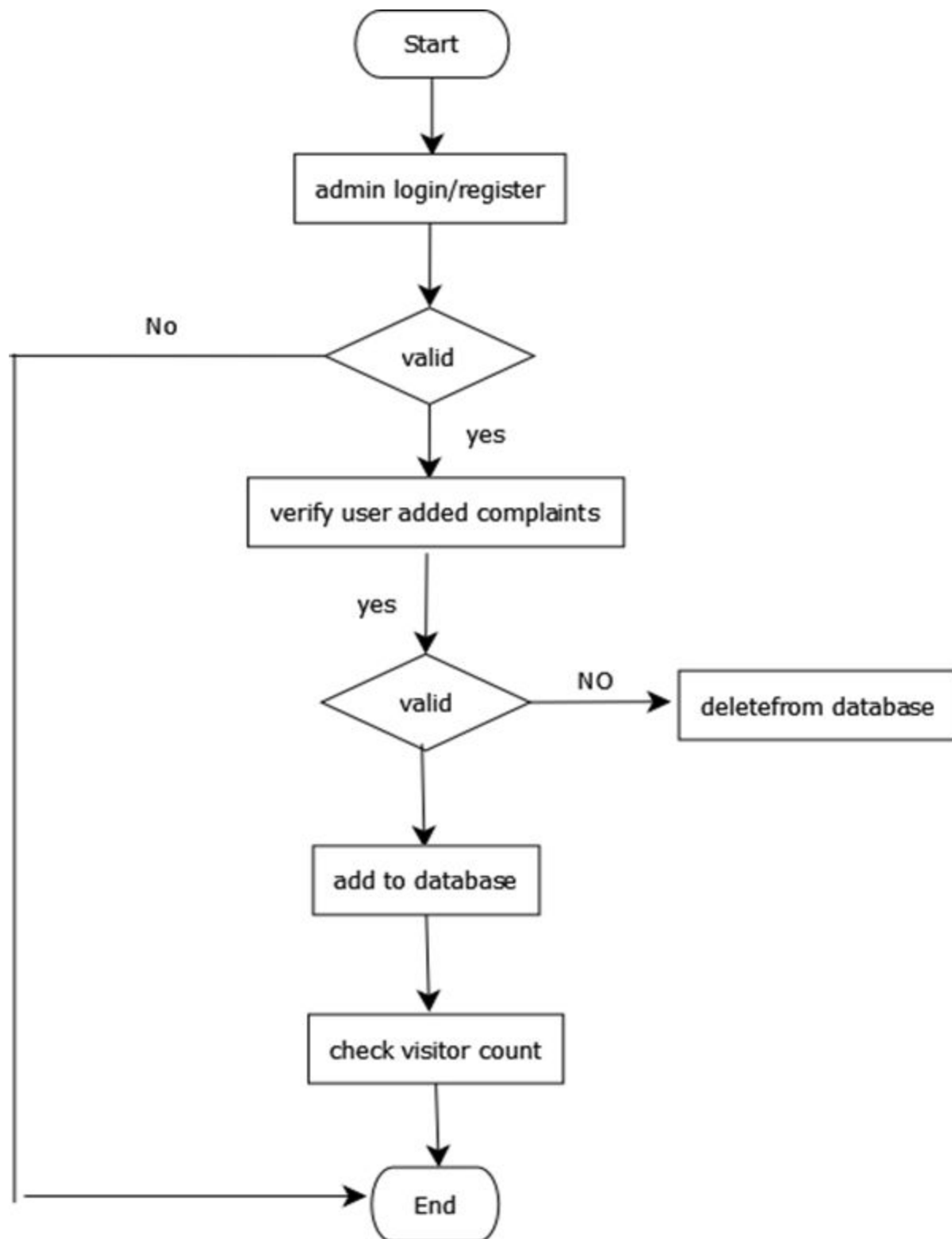


7.3 FLOW CHART:

User:

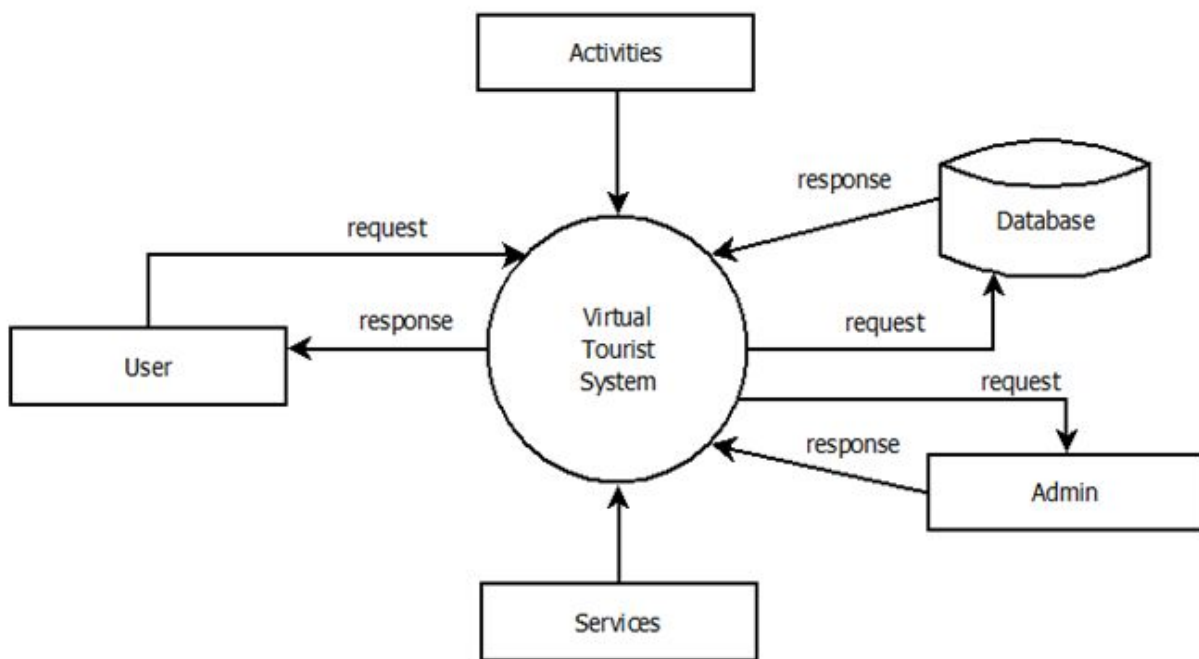


Admin:

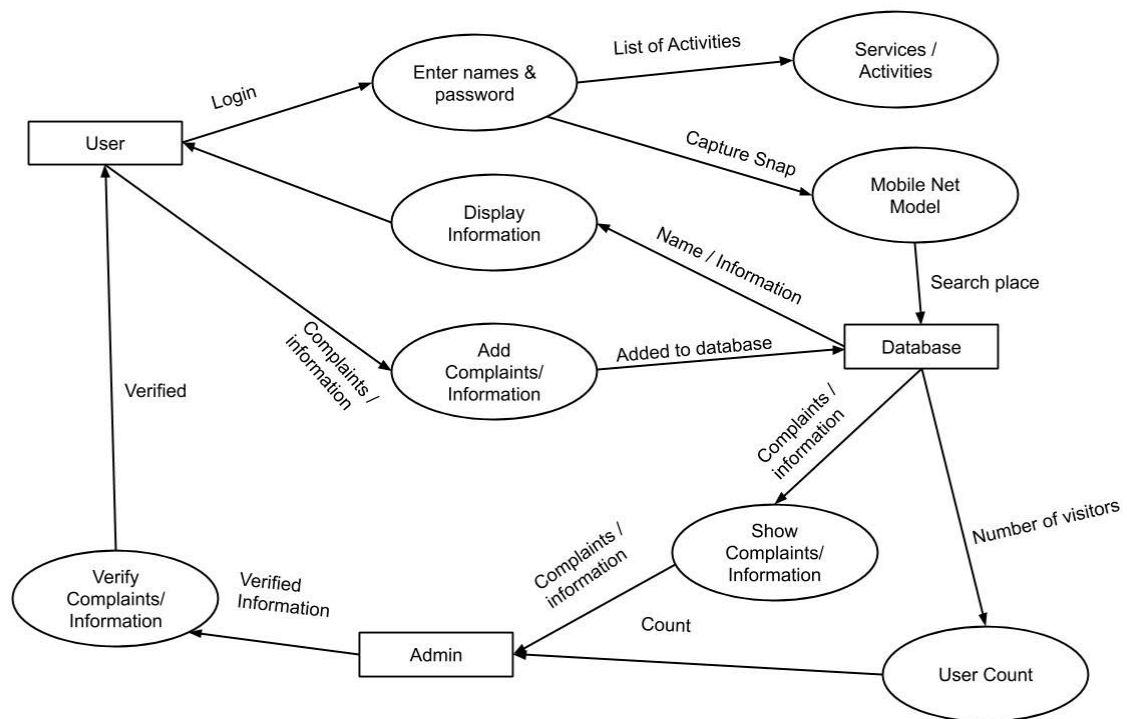


7.3 DATA FLOW DIAGRAM

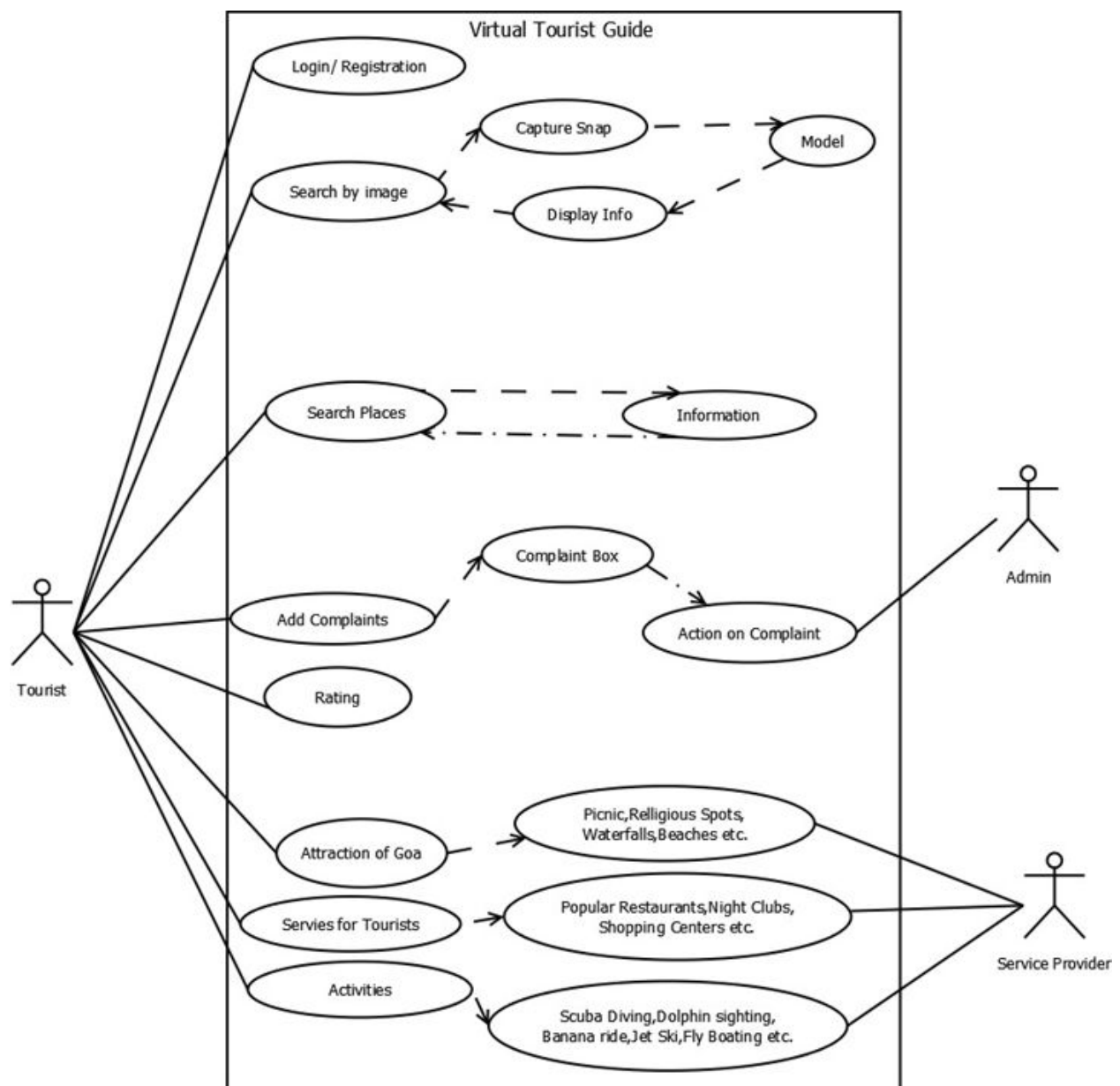
Level 0:



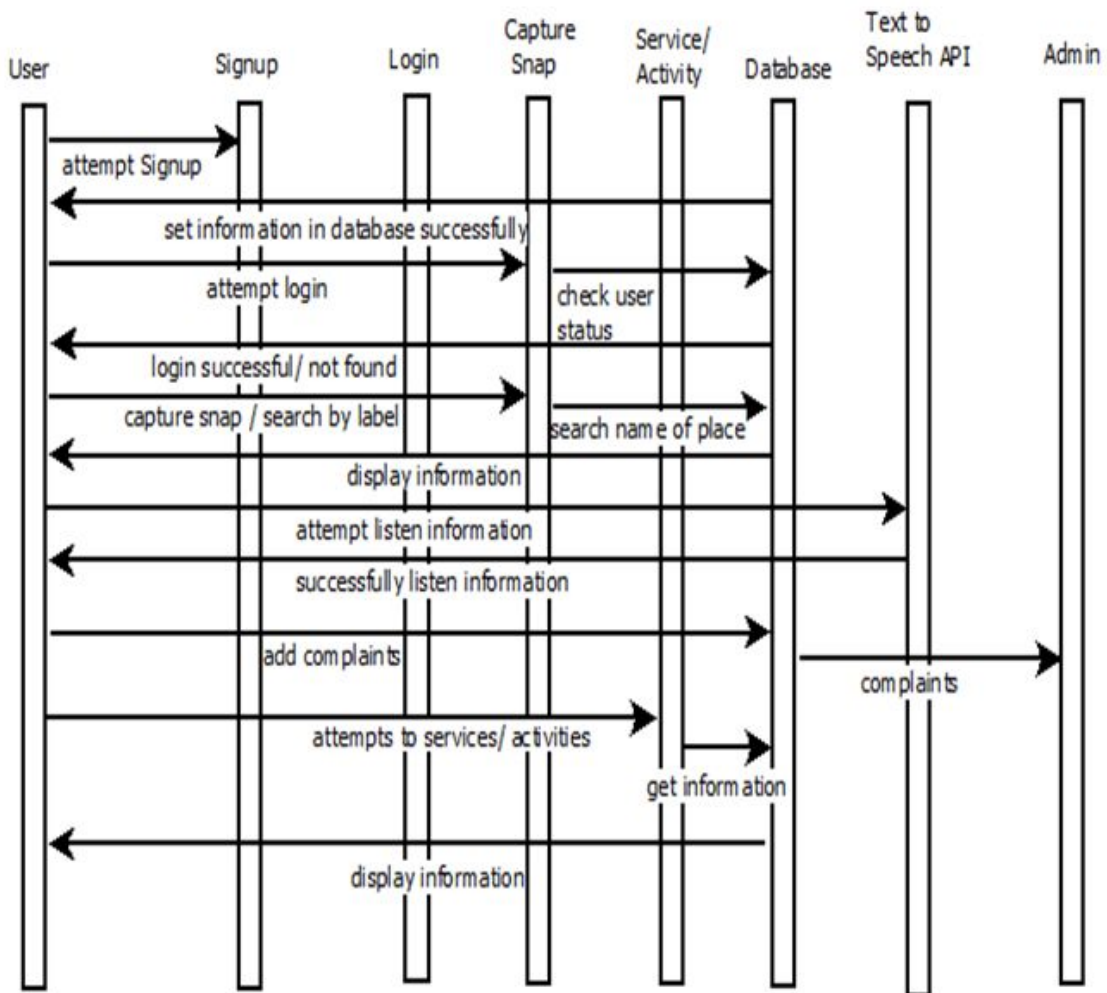
Level 1:



7.4 USE CASE DIAGRAM:



7.4 SEQUENCE DIAGRAM :



8.IMPLEMENTATION:

User:

user Login

1. Enter gmail and Password
2. Check if gmail and Password is valid
3. If yes then start the HomeActivity
4. If no then show error for gmail and Password

Create Account

1. Enter gmail and Password
2. If gmail and Password is valid then create account successfully
3. If no then show error for valid username also for password

capture snap:

- 1.capture snap from camera
- 2.If model recognize it correctly then create query and fire on database and display information to the user
- 3.if model can't recognize it the recapture image

Admin:

Admin login:

1. enter valid gmail and password
2. Check if gmail and Password is valid
3. If yes then enter into system
4. If no then show error

monitor user information:

1. Monitor visitor count
2. check user added complaints
3. If it is valid then take action on it
4. If not then discard it

9.TESTING:

Test case ID	Test Scenario	Expected Results	Actual results	Pass/Fail
1	Register user	Open registration page	As expected	Pass
2	Check validation of username	Should accept only valid username	As expected	pass
3	Register without username	Error message	error	Fail
4	Login with wrong username and password	Error message	Login page	Fail
5	Login with correct username and password	open home page	As expected	pass
6	Open camera to take snap	open camera	As expected	pass

7	Search place by label	open place information	As expected	pass
8	Open List of activities/Services	open activity page/Service page	As expected	pass
9	Add the complaints/information	add to database	As expected	pass
10	Admin Login	open login page	As expected	Pass
11	Admin see Added information	open database page	Not added to database	Fail
12	Admin see Added information	open database page	added to database	pass

10.SNAPSHOT:

10.1 Snapshots of UI:

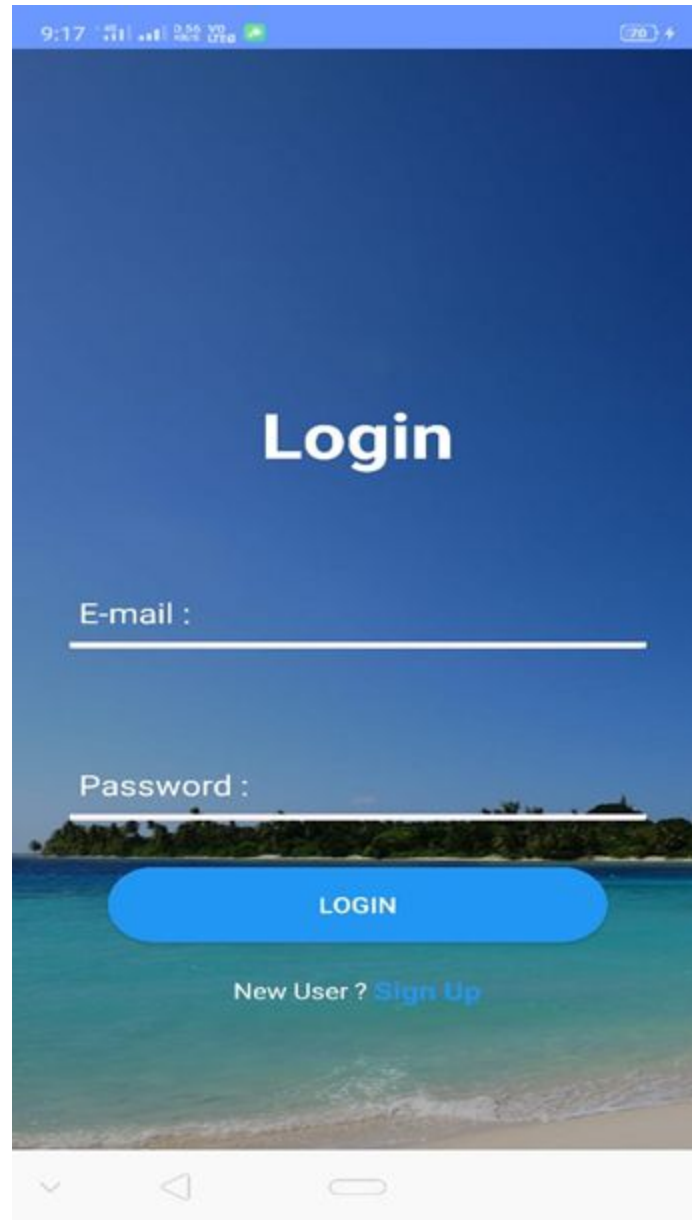


Fig 10.1.1 Login Page

A mobile application sign-up page with a background image of a tropical beach. The page features a title, four input fields, a sign-up button, and a login link.

9:17 4G LTE 0.10 VO MB/S 70%

Create Account

Name :

Phone Number :

E-mail :

Password :

SIGN UP

Already have Account ? [Login Here](#)

Fig 10.1.2 Sign Up Page

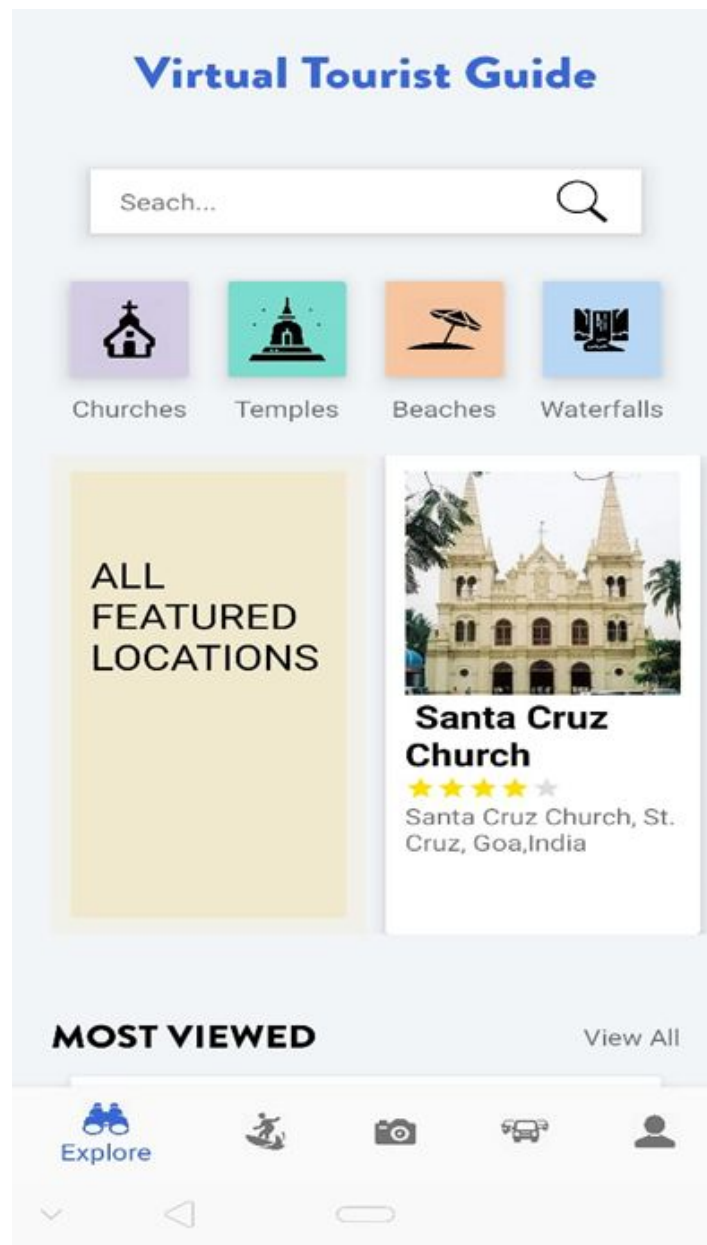


Fig 10.1.3 Home Page

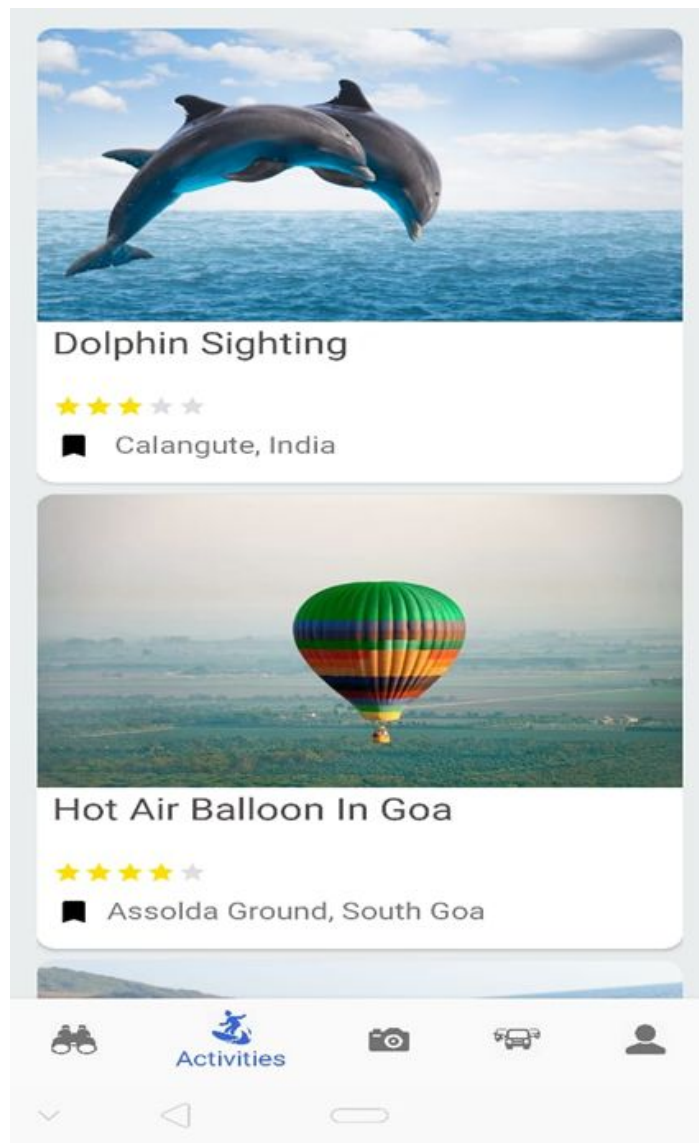


Fig 10.1.4 Activities Page



Fig 10.1.5 Display Activities Information Page

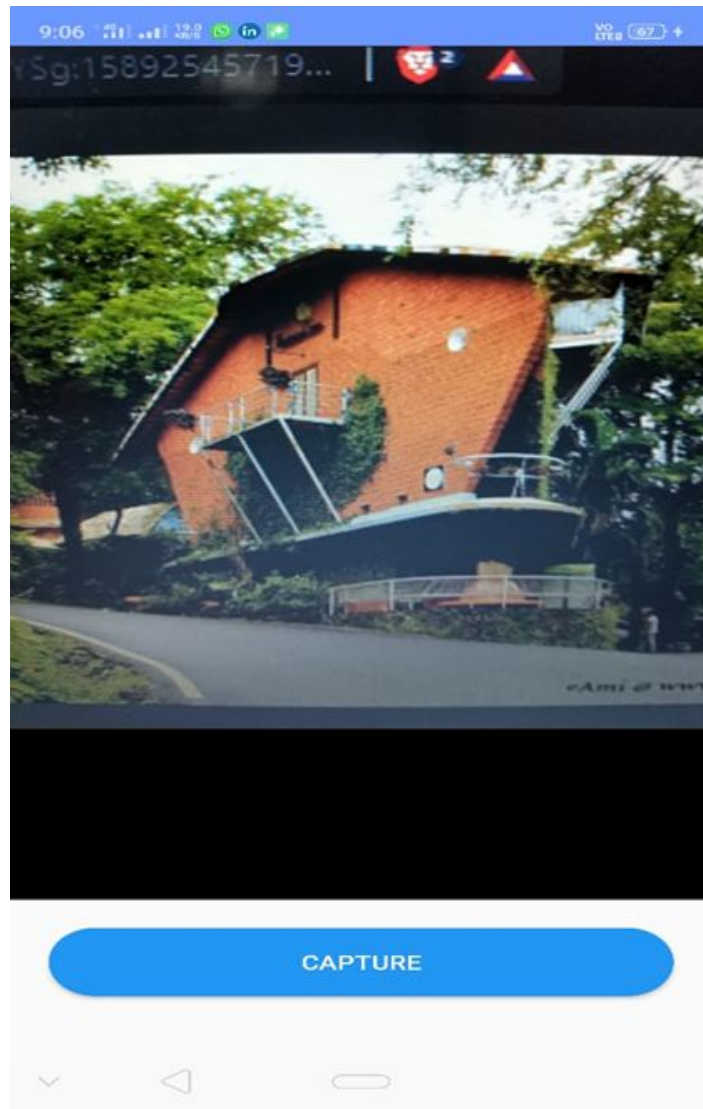


Fig 10.1.6 Capture Snap Through Camera

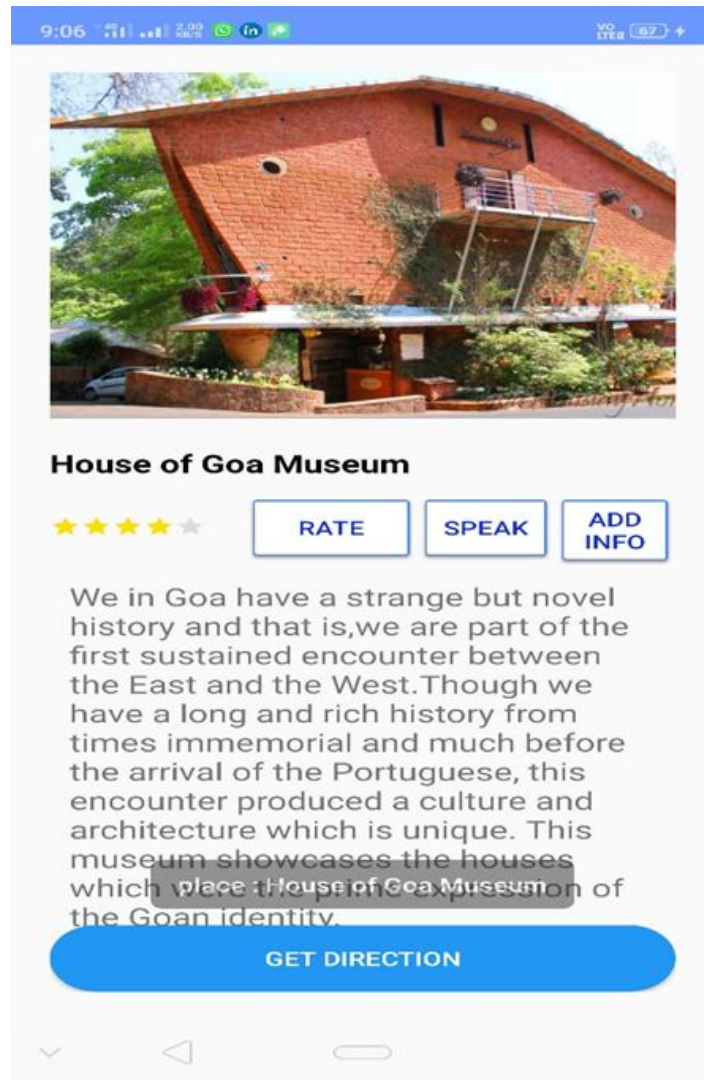


Fig 10.1.7 Display Captured Snap Information Page

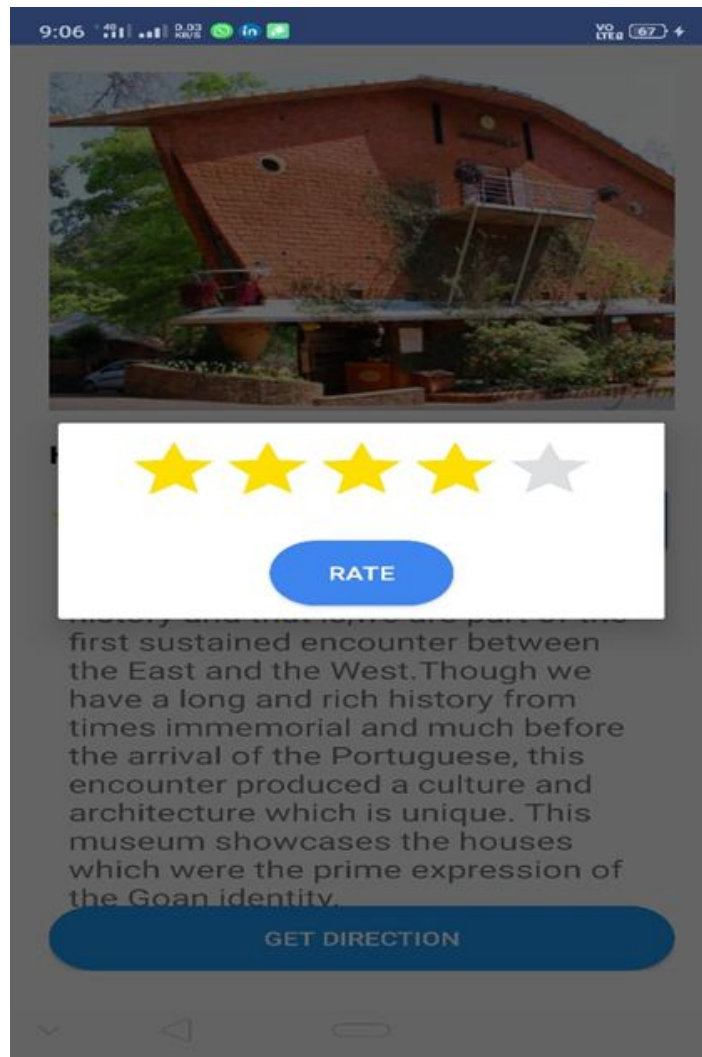


Fig 10.1.8 Give The Rating

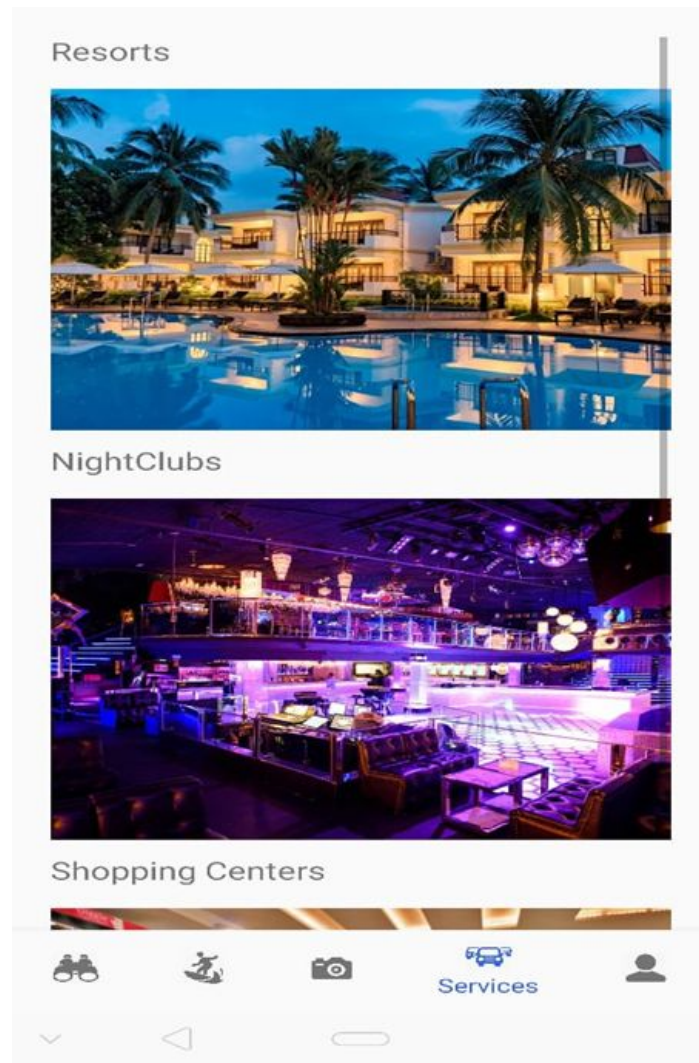




Fig 10.1.9 Services Page

9:07 4G 55.0 Kbps VO LTE 62



Dunhill Resort
Price: 1500-3000 p/night
Location: Agonda Beach,Goa
★★★★★



Caravela Resort
Price: INR 10000-30000
Location: Caravela Beach Resort,Varca Beach,Fatrade,Margao,Goa 403721
★★★★★

Fig 10.1.10 Display Services Information Page

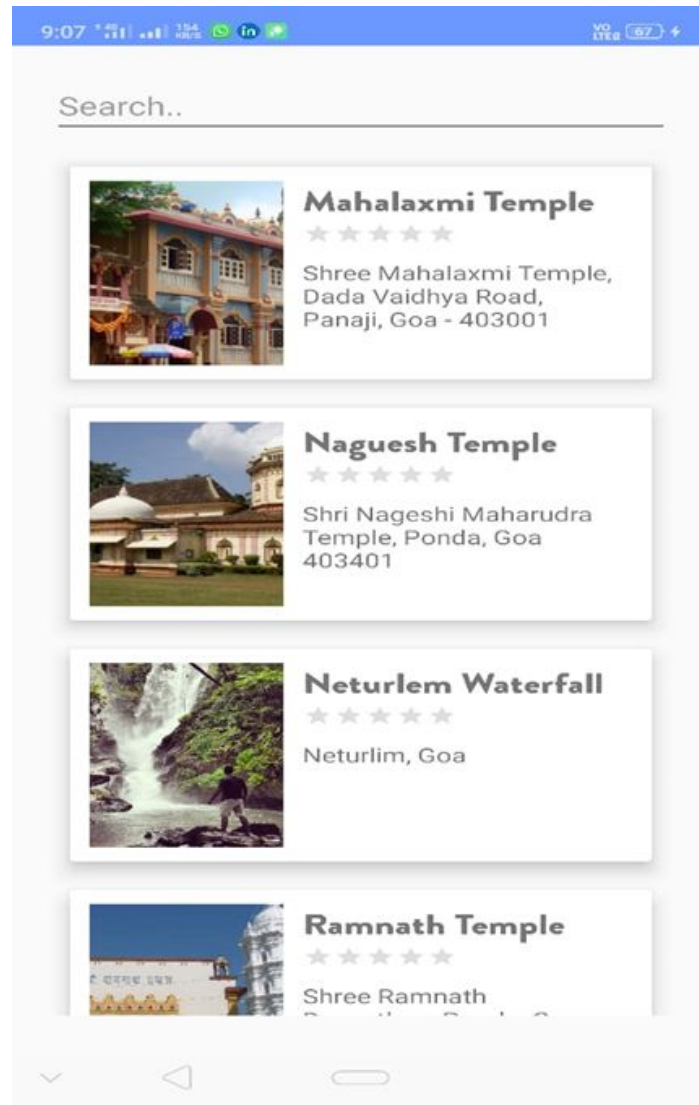



Fig 10.1.11 Search a Monument By its Label Through
Search By Label Facility




Prathamesh
Logout

Change

Full Name

 Prathamesh



Email Id

 pld5@gmail.com

Phone Number

 8806010270

Update Info



Profile




Fig 10.1.12 View User Profile

11.CONCLUSION:

Our application successfully identifies different places. With help of application we can plan our journey efficiently without using manpower. We can also add more information about the place that can be further added dynamically. If we found something improper at the place then we can also add complaints regarding that place . If the user is interested in listening to the contents rather than seeing the contents then we also provide extra facility that is text to speech .

12.REFERENCES

<https://wikipedia.org/>

<https://www.wikibooks.org/>

<https://www.sih.gov.in/sih2020ps>