KONKAN GYANPEETH COLLEGE OF ENGINEERING, KARJAT

Affiliated to University of Mumbai, Approved by AICTE, New Delhi.

GPS based Location Tracking using Android

- Project Members:
  - Utkarsha Khachane. 29
  - Priya Pandey. 41
  - Surbhi Varande. 55

Under the Guidance of:
Prof. A.S.Kunte

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Introduction

- In the employee tracking application, there are two sides. One is the admin side and another one is the employee side.
- On the admin side, admin need to first login the application. If the admin login is successfully then only admin can use this application. After that the admin can add employee, see employee, add a task and see task features.
- the admin can see the current task status and the current employee location. The admin can see current employee location on Google map. If the task is completed then the admin can see task completed photo for a particular task
- On the employee side, employee need to first login into the application. If the employee login is successfully then only employee can used this application.

- After that the employee can see the assigned task list assigned by the admin. The employee can see the task title, description, and address in the task list.
- If the task is completed then the employee needs to upload the task completed photo and update the task status.
- Employees can see address details on google map.
- Also, the employee can see the current location and destination location on google map with direction.

Objectives

- The main objective of the application tracks the task information of all the employees The objective of the project is to create a technical solution that serves both the users and the admin.

- To develop a system that will be able to locate current position of the employee.
  To create an interface to google map and obtain data. Admin can assign task for a particular employee. Admin can see the task status of all the employees. If the task is completed then the admin can see the employee current location on google map.

- The employee can see the assigned task list assigned by the admin. The employee can see the task title, description, and address in the task list. If the task is completed then the employee needs to upload the task status. Employees can see address details on google map. Also, the employee can see the current location and destination location on google map with directions.

Scope

- The scope of this project is to develop a tracking/monitoring android application using object GPS devices to ascertain its current location.
- The preparation of the environment need to build the system the testing of the system and the migration and the preparation of the data that will ultimately be used by system are equally important.
- The location based tracking systems is a real life problem solving application both the admin section and user section are designed in such a way that both are easily usable.
- This project is developed for location tracking of an individual person using various latest demanding tools and technology like Json, Java, AVD, etc.

Requirements

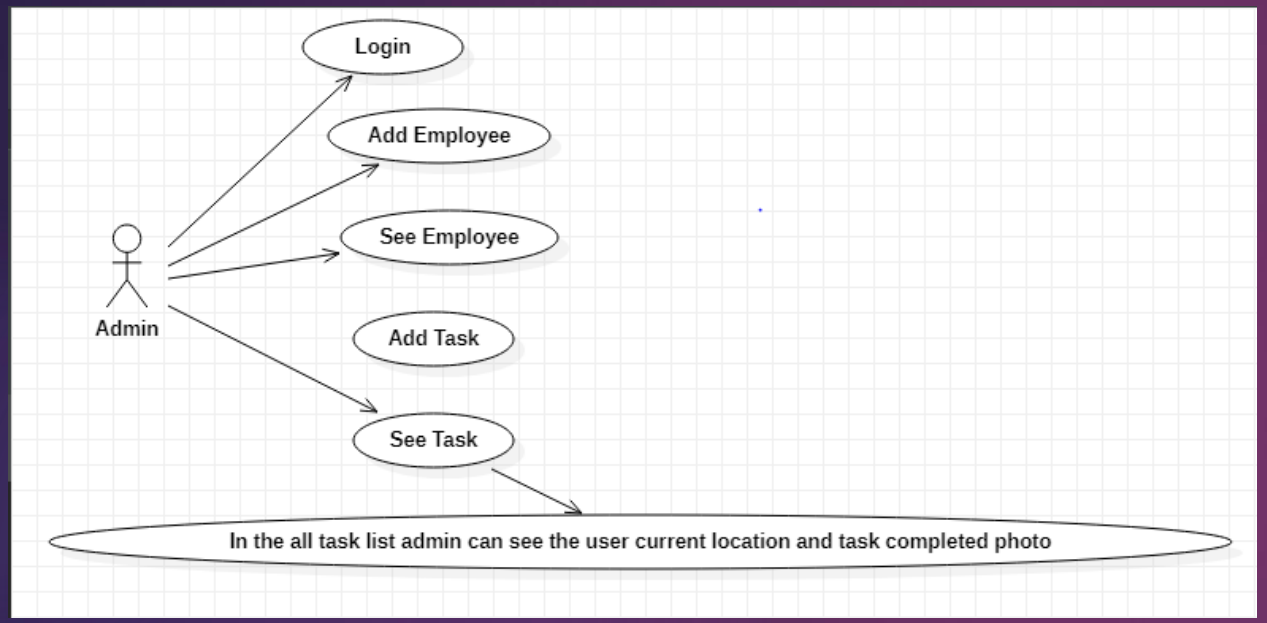
Hardware requirements:-

- Laptop or computer
- Processor:-Intel core i3
- RAM:-8GB

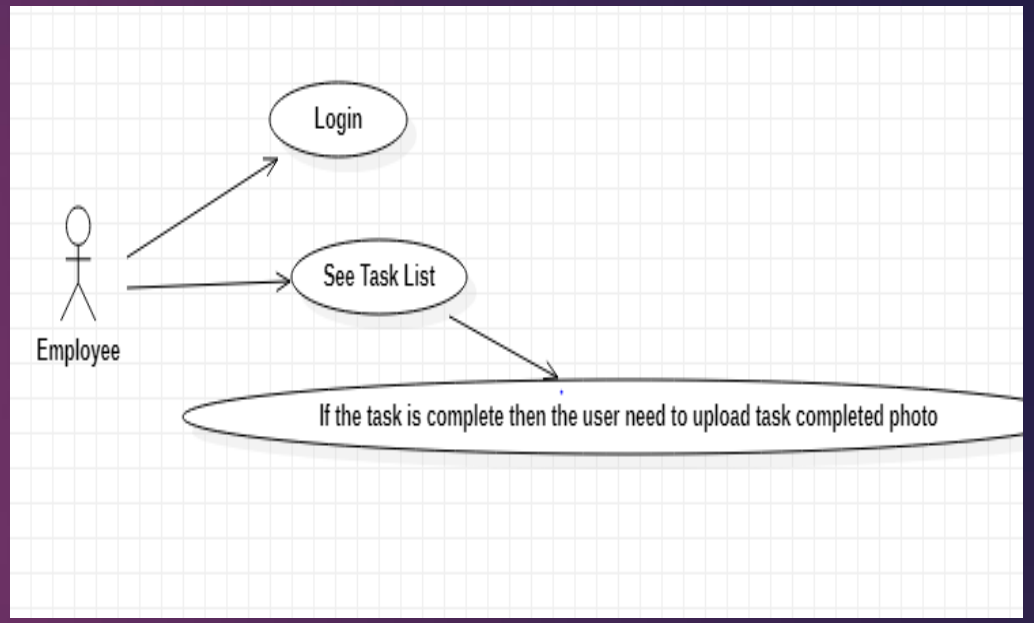
Software Requirements:-

- Platform used:-Windows 10
- Android Studio Software
- Android Phone

Use Case Diagram



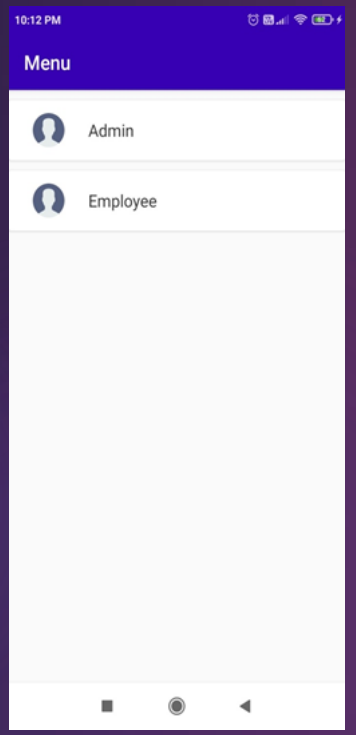
Admin Use case

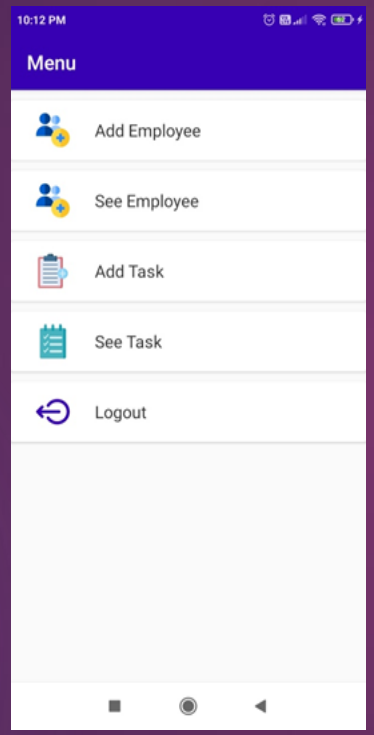


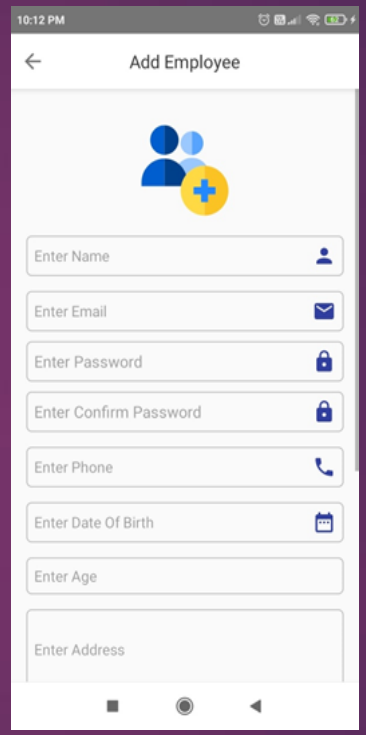
Employee Use case

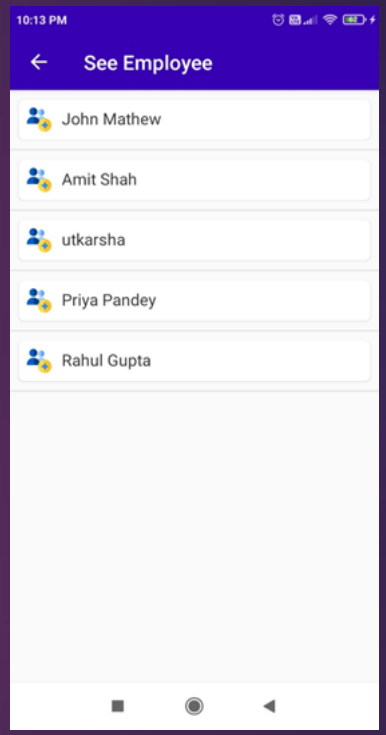
Screenshots

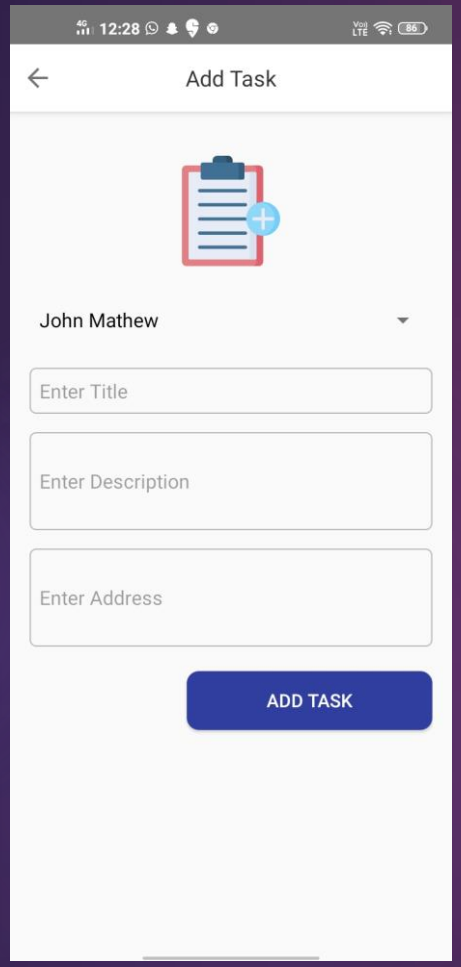
Admin Side

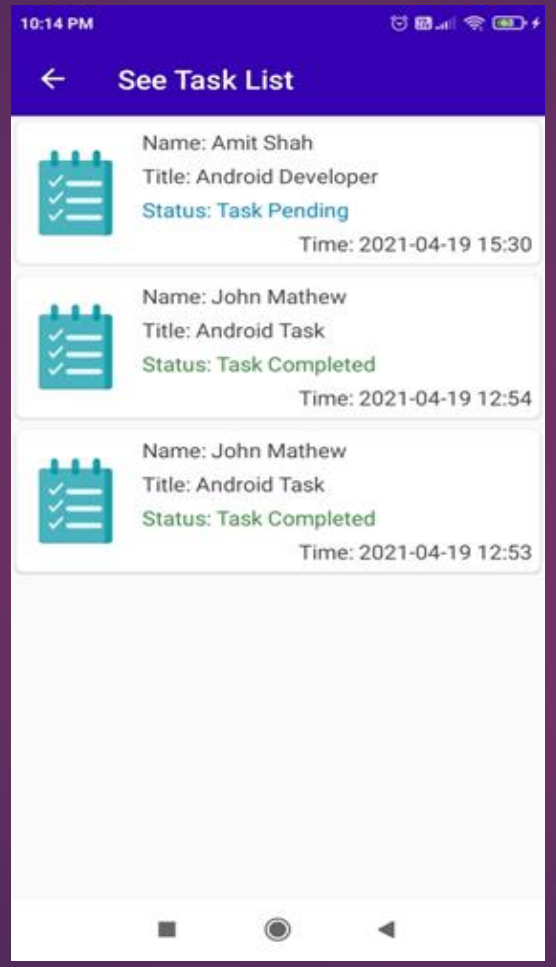


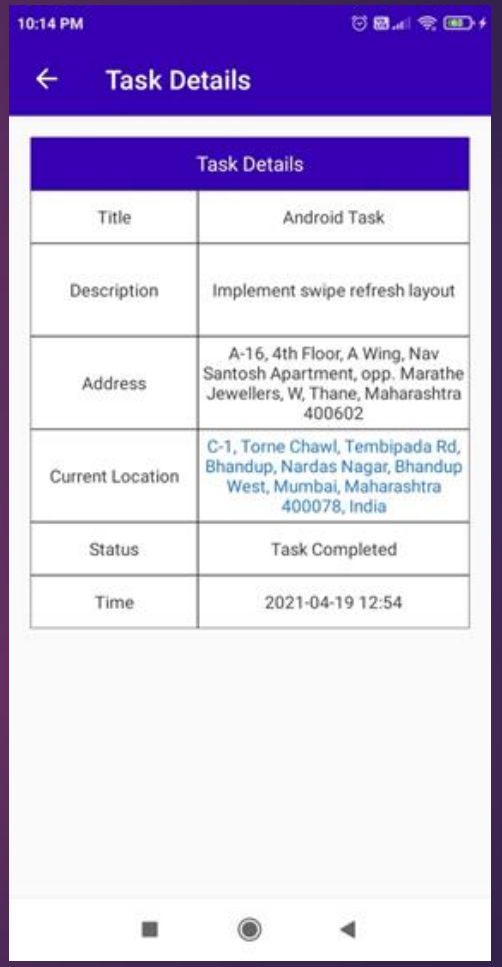




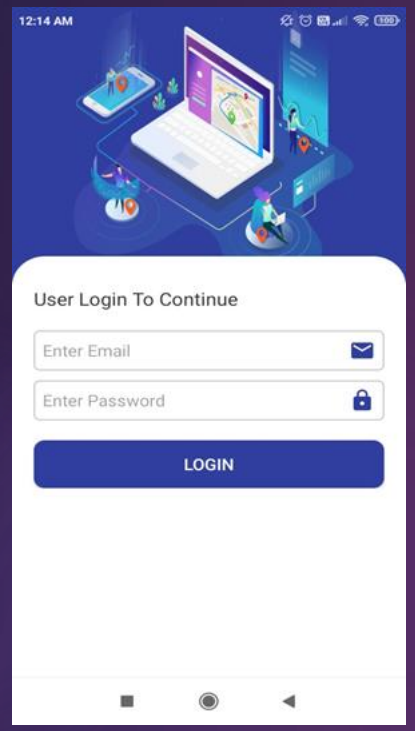


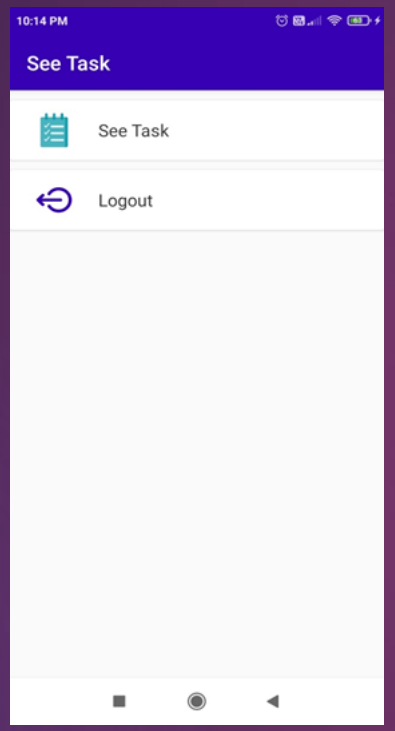

12:28
Add Task
John Mathew
Enter Title
Enter Description
Enter Address
ADD TASK

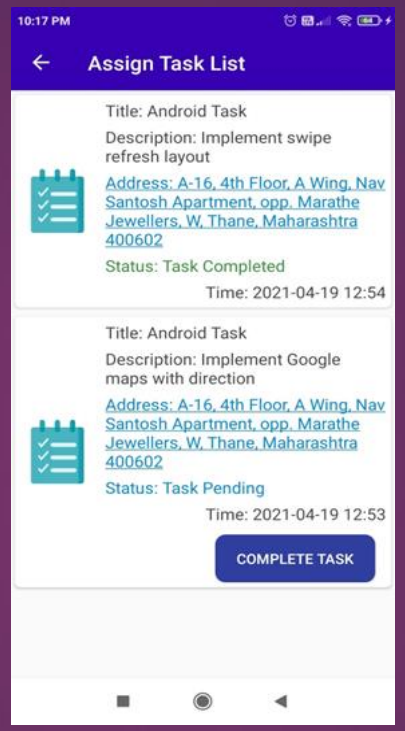

10:14 PM
See Task List
Name: Amit Shah
Title: Android Developer
Status: Task Pending
Time: 2021-04-19 15:30
Name: John Mathew
Title: Android Task
Status: Task Completed
Time: 2021-04-19 12:54
Name: John Mathew
Title: Android Task
Status: Task Completed
Time: 2021-04-19 12:53

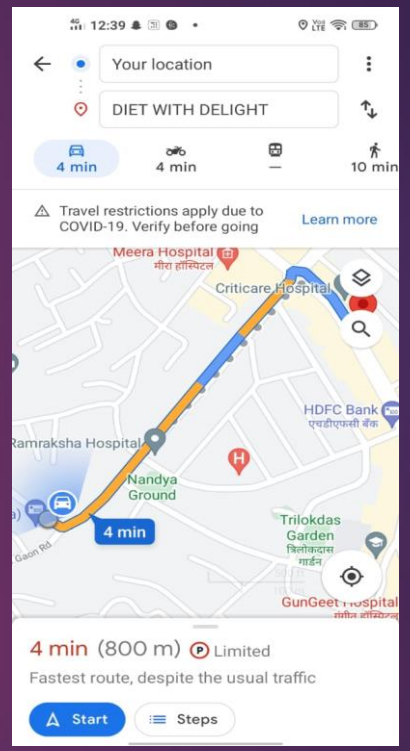

10:14 PM
Task Details
Task Details
Title
Android Task
Description
Implement swipe refresh layout
Address
A-16, 4th Floor, A Wing, Nav Santosh Apartment, opp. Marathe Jewellers, W, Thane, Maharashtra 400602
Current Location
C-1, Torne Chawl, Tembipada Rd, Bhandup, Nardas Nagar, Bhandup West, Mumbai, Maharashtra 400078, India
Status
Task Completed
Time
2021-04-19 12:54

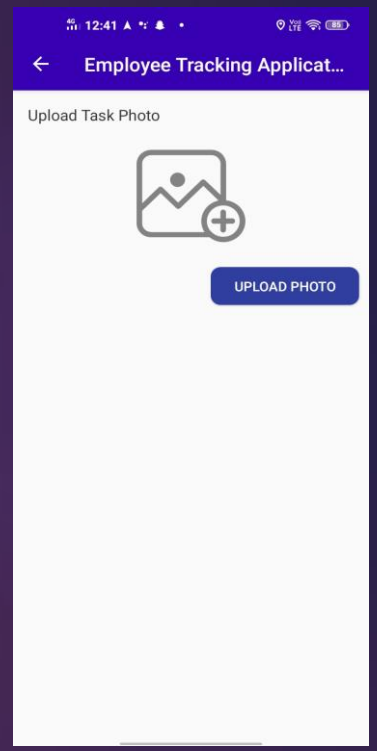
Employee Side











Conclusion

The main advantage and feature of the project is that its simplicity attracts a lot of users. Login and registration of the employee are done in this application for security purposes and to identify the employees. Admin can keep track of task information. If the task is complete then the admin can see the employee current location on google map. Also, the admin can see can task completed photo for a particular task. If the task is completed then the employee needs to upload the task completed photo and update the task status. Employees can see address details on google map. Also, the employee can see the current location and destination location on google map with direction.

THANK YOU