**INTRO & OBJECTIVE**

This system is an android application where the user will be using the android application and admin as well as HR . This application is meant for field work Employers. The Employee will have this application in his android phone, when the user will login to the system his image will be captured and his GPS location will be send to the admin where admin will view image and GPS location in web application. After Login, GPS location of the employee will be tracked automatically by the system and send to the admin after every 5 minutes .When employee logout the system again the image will be captured as well as GPS location will be send to the admin. In order to keep track of the attendance as well as payroll of the employee, this system plays a major role. The role of the admin is to add new employee by entering his personal details and admin will provide the employee with identity number and password to the user so that he can access the application in his android phone. Admin can view the GPS location of the employee by entering Employee Identity Number as well as Date. Admin can check the salary of the particular employee by entering date and employee ID. Admin can view latitude and longitude of the GPS location sent by the employee. Admin can change the password of the employee. When the HR login to the system he can check the GPS location of the employee by entering employee ID and date. HR can check salary of the particular employee by entering employee identity number and date. This application helps admin and hr to easily check the salary of the employee. Since GPS location of the employee is tracked, so employee will not attempt to add proxy attendance.

**FEATURES & SPECIFICATIONS**

* **Admin Login :-** Admin will access the system with admin ID and password
* **Add Employee:**- Admin will add new employee by entering employee personal details.
* **View Location: -** Admin can view GPS location of the particular employee by entering employee ID and date.
* **Check Salary:-** Admin can check salary of the employee by entering employee id and date.
* **View Point: -** Admin will view latitude and longitude of the GPS location of the employee.
* **Change Password: -** Admin can change password of the employee.
* **HR Login: -** HR can access system by entering HR ID and password.
* **Check Location:** HR can check GPS location of the employee by entering employee ID and date.
* **Check Salary:** Hr can check salary of the employee by entering employee id and date.
* **User Login: -** User will access the system with his user identity number and password with his android phone. User will capture his image and clicks on submit. User’s Image and GPS location will send to admin.
* **Tracking GPS Location: -** System will Track GPS location of the employee and will be automatically sent to admin after every 5 minutes.
* **User Logout: -** Once the user logout the system, image of the user and current GPS location will be send to admin.

**Software Requirements:**

* Operating System : WINDOWS 7 & Above
* Software : ANDROID STUDIO
* Programming Language : Android
* Database : SQLite
* Back End : PHP

**Hardware Components:**

* Processor – i3
* Hard Disk – 5 GB
* Memory – 8GB RAM
* Android device

**Advantages:-**

* This System helps the admin to keep track of the employee’s who go for field work.
* Since GPS location of the employee is tracked, so employee will not attempt to add proxy attendance.

**Disadvantages:-**

* All employees must have an android phone to use this application.
* If camera gets corrupted at user’s side this system fails to work.

**SETTING UP ANDROID STUDIO**

**1**

**Understand what's entailed in Android Studio.** Android Studio is a complete suite of software which includes an Integrated Development Environment (IDE) and the proper Android development kit (SDK) needed in order to create Android software.

* Prior to Android Studio, developers had to download a third-party IDE (such as Oracle's Eclipse) and then install it alongside the Java Development Kit and the Android SDK; this is no longer necessary.[[3]](https://www.wikihow.tech/Set-up-an-Android-Development-Environment#_note-3)
* Android Studio support for the Oracle Eclipse plug-in is no longer available.

**2**

**Open the Android Studio download page.** Go to <https://developer.android.com/studio/index.html> in your computer's web browser.

**3**

**Click DOWNLOAD ANDROID STUDIO.** It's a lime-green button near the bottom of the page.

**4**

**Click DOWNLOAD ANDROID STUDIO FOR WINDOWS.** It's a blue button at the bottom of the page. The Android Studio setup file will begin downloading onto your computer

**5**

* On Windows, you may have to click **Next** and then click **Finish** one more time before Android Studio finishes installing.

**Install Android Studio.** Once the setup file opens, you can install Android Studio. This process will differ slightly depending on your computer's operating system:[[4]](https://www.wikihow.tech/Set-up-an-Android-Development-Environment#_note-4)

* **Windows**
  + Click **Yes** when prompted.
  + Click **Next** until you arrive at the installation page.
  + Click **Install**
* **Mac**
  + Click and drag the "Android Studio" icon onto the "Applications" folder.
  + Click the Android Studio icon.
  + Check the "I do not have a previous version" box.
  + Click **OK**
  + Click **Next** twice.
  + Click **Finish**

**6**

**Allow Android Studio to install.** This can take several minutes, so be patient and keep your computer plugged in if necessary.

* On Windows, you may have to click **Next** and then click **Finish** one more time before Android Studio finishes installing.

**7**

**Set up Android Studio.** Android Studio will open to a setup wizard, so do the following to complete it:

* Click **Next**
* Check the "Standard" box.
* Click **Next**
* Select a theme ("IntelliJ" for a light theme or "Dracula" for a dark theme).
* Click **Next**
* Click **Finish** twice.

**8**

**Start a new Android Studio project.** Click **Start a new Android Studio project**on the main page, then fill out the form by entering the necessary information and clicking **Next** on each page. At this point, you are ready to begin coding your very first Android application.[[5]](https://www.wikihow.tech/Set-up-an-Android-Development-Environment#_note-5)

* Android Studio's website has a basic "Hello World" tutorial here: <http://developer.android.com/resources/tutorials/hello-world.html>

**CONCLUSION**

Using this system we are able to monitor and track the Employees in the company and thus it helps the manager to examine each and every employee from and outside of the company also. The details like SMS history, incoming call list, outgoing call list, web browser history, data usage, unauthorized call list accessible to the manager using this system. It helps to increase the output of the company thus getting good position in the world. The company’s annual growth is increased and the wastage of time is minimized. It helps to track easily employee's log in and out. It helps to see employee details and their activities and also reduces the complexity of employee detail maintenance.

**FUTURE SCOPE**

In future scope the same system could be tried to implement in different mobile phones like Windows and Apple phones. Also separation of data i.e. personal and corporate data can be applied.