

HR Portal Android Application

Dr. K. Kartheeban¹, Muthulakshmi L², Devisri S²

¹Associate Professor, Kalasalingam University, Anand Nagar, Krishnankoil, Virudhunagar, Tamil Nadu, India

²Kalasalingam University, Anand Nagar, Krishnankoil, Virudhunagar, Tamil Nadu, India

ABSTRACT

This Hr portal android application is an open source software which can be used by the employees of an industry/company. Our main target is to create an android application which will be installed in all the employees mobile. Which helps them in checking all the important details about them and company activities. This hr portal android application have different modules which makes the employees work easier. They are 1) Holiday 2) Employee details 3) Attendance 4) Leave request 5) My leave. Here, in the HOLIDAY module, one can check the complete holiday list which is listed by their company management for the whole year. In the EMPLOYEE module, we can get list of employees with their contact details. ATTENDANCE module is mainly to check the number of working days an employee attended in academic year. In LEAVE REQUEST, all the employees who wishes to take leave can apply their leave through this module. And finally, in MYLEAVE module, we can check the leave history which we took before. The login process will be taken directly by checking the MAC address of each employee mobile. This process supports and maintains all the information of employees and makes the HR work easier. This application develops a system to enable interaction between employers and applicants.

Keywords : HR Portal, Android Application, Leave Request, Sentrifugo

I. INTRODUCTION

The Hr portal android application helps the employees to easily get details of their holiday, leave, employee lists and also helps them to apply leave by staying in their place itself. Also, we concentrate mostly on attendance monitoring system. Our server will be connected between the serf and users mobile device. Both are mutually connected by the MAC address of users mobile. When the serf scans the particular MAC address in its range then the attendance will be noted down. After that a small message will be delivered to the users mobile mentioning that they are inside the office range. This project is new to all the IT companies in India. Since currently they are using RFID scanning system. It supports and maintains all the information of employees and makes the HR work easier.

II. EXISTING SYSTEM

Currently, there are many HR management systems available in the market with basic employee adding details and expense management. We found a new human resource open source management system called SENTRIFUGO which maintain all the employee details, leave application and viewing the status, holiday details, expense management and attendance maintenance. This sentrifugo is completely a web based system which cannot be taken or used at all instance. And also, we have to login each and every time. This system can be controlled by the super admin who manages the complete process.

III. PROPOSED SYSTEM

To overcome such issues, we are planning to introduce an android application for the sentrifugo which links to the sentrifugo database and makes it work similarly. In this android app we are planning to introduce a new method in analysing attendance of the particular employee by using the new features. This app will be installed by all the employees in their android mobile and keep logging in. All their details and leave application will be maintained by their hr manager.

IV. MODULES

The list of modules will be listed, explained and its output screenshot is attached below each module.

Holiday

Leave Request

Leave Status (My Leave)

Attendance

Employee

Holiday

All the central government, state government holidays and company holiday details will be listed in this module. These details will be added directly to the server. By using android studio, we use api to call all the holiday related datas from the server to the mobile app.

Leave Request

Employee who wishes to apply leave for corresponding dates can apply through this module. Every employee will be allotted a particular leave counts by the super admin. Employee can apply leave between that leave limit only. After applying leave, the hr can manage the leave by accepting or rejecting the leave application. When the leave request is accepted by the hr manager, the available leave count will be reduced by the count of leave accepted. This process can be directly done through their mobile app itself. The data's which id filled by them will be taken to server by the post method applied to the api in android studio code.

Leave Status (My Leave)

After applying leave, employee can view his/her leave history in this module. All pending leaves, approved leaves, rejected leaves, cancelled leaves are available here. This process is similar to the holiday module. Its work is to take and show the leave history details from the server which is already uploaded. This process is also done by the android studio with get method api calling.

Attendance

In attendance monitoring system, our server will be connected between the serf and users mobile device. Both are mutually connected by the MAC address of users mobile. When the serf scans the particular MAC address in its range then the attendance will be noted down. After that a small message will be delivered to the users mobile mentioning that they are inside the office range. This project is new to all the IT companies in India. Since currently they are using RFID scanning system.

Employee

List of employee details will be listed in this module. We can understand under what project an employee currently works and their current process. This is similar to holiday and leave status module. Just api differs but the method we use and the way output comes are similar. Data's are different but the methods are same. Android studio plays a major role in android app platform.

OUTPUT

The submitted screenshots are only for the four modules. The resulted output screenshot is attached. The datas added here is just a dummy data. The actual datas are confidential. So, we mentioned dummy data here. This process supports and maintains all the information of employees and makes the HR work easier. This application develops a system to enable interaction between employers and applicants.

Screenshots:

Holiday



Figure 1

Leave Request

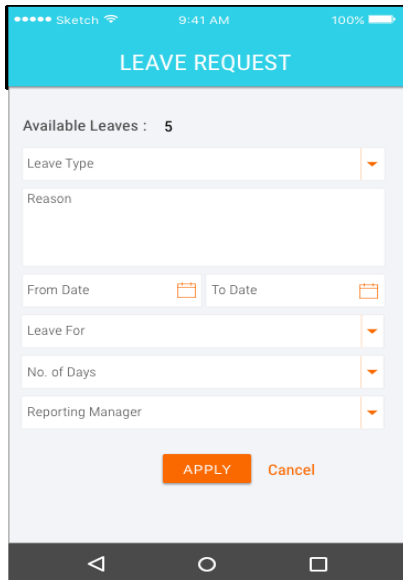


Figure 2

Leave Status (My Leave)

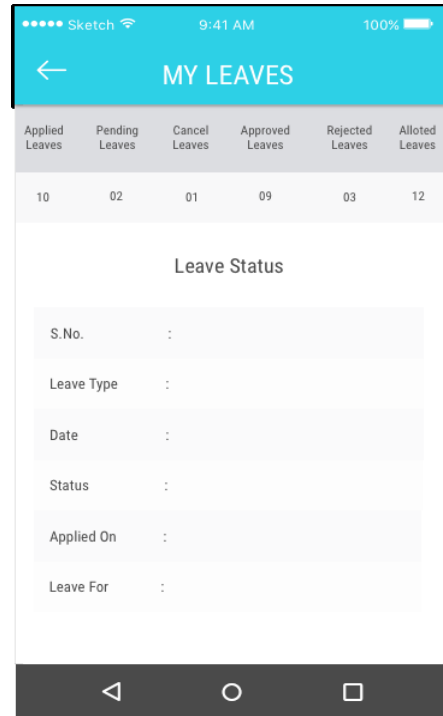


Figure 3

Employee

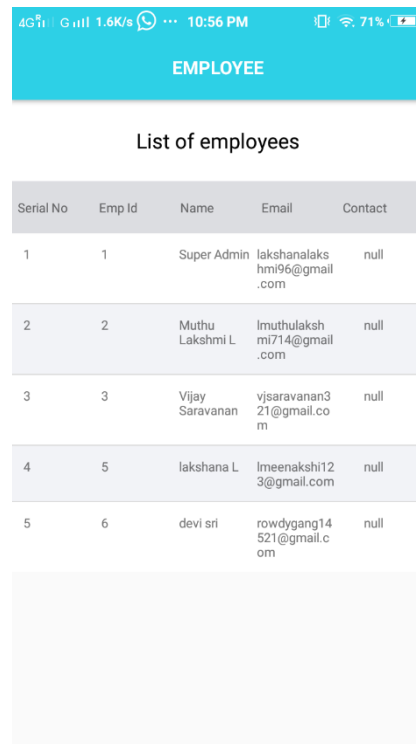


Figure 4

Table 1. This table describes what method is used in each module and API usage.

Module Name	API used Yes/no	Method used
Holiday	yes	GET
Leave Request	yes	POST
Leave Status	yes	GET
Employee	yes	GET

V. REFERENCES

- [1]. DELOUCHE and P.TSNOBILADZE, Dynamic Music Creation on a Smartphone.sonoscaphes.com, 2013.
- [2]. Cascio, W.F.(1984).Costing human resources: The financial impact of behavior in organizations.Boston: PWS-Kent.
- [3]. Bulmash.HRM.McGraw-Hill.
- [4]. Cascio, W.F.(2000).Costing human resources: The financial impact of behavior in organizations (4th ed.).Cincinnati, OH: South-Western College.
- [5]. H.Shu, City Guide over Android, 1st ed.Norway: Norwegian University of Science and Technology, 2010, pp.5-95.
- [6]. Iversen and M.Eierman, Learning Mobile App Development.Pearson Education, Inc, 2013, pp.1-350.
- [7]. Selden,Sally Coleman., Jacobson, Willow., Ammar, Salwa H.and Wright, Ronald H.(2000) A New Approach to Assessing Performance of State Human Resource Management Systems: A Multi-Level Fuzzy Rule-Based System.Public Personnel Administration.20, 58-74.Full-text online].SAGE Accessed on 13th December 2010].
- [8]. Roberts, B.(1999), —Calculating return on investment for HRIS], HR Magazine, Vol.44 No.13, pp 122–127.