

# Android Application for Shanmuga Industries Arts & Science College

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**Abstract**— In this mobile era, the number of mobile users is greater than the number of desktop users. A well designed mobile app can perform actions much quicker than a mobile website. The mobile app use continues to grow worldwide. The proposed work is an android application software which would be a miniature of our college website. This application consider the user as either student or faculties or office staffs individually. The application gives more comfort and better user interface and also gives an overview about the campus and the college history. The college website can be viewed through the mobile application itself. In addition to that the student and the faculties can apply for leave through this android application. An Individual account can be created for the student and the faculties. They can upload their details through the app. It is also possible to register the user details and also apply for leave by admin at real time through web application. It can be used to automate the workflow of leave application and their approvals.

**Key words:** Leave Management System, SIASC, LMS using Android

## I. INTRODUCTION

The need of the time is to have the exact blend of interactive, user-friendly and efficient technologies integrated in Android application that is sure to deliver flexible and greater operational control over the system. The idea behind this work is the manual leave management system, in which the student and the faculties should visit the department and the administrator for their leave request and its approval. The Head of Department and/or the Tutor are the competent authorities for the approval or refusal of leave depending on the type of leave. The leave request and its approval is a manual process. In this work, the college website can be viewed through the mobile application itself. In addition to that the user i.e. the student and the faculties can apply for their leave through online. The leave request and the approval of the leave can be given through this app. The project have two type of application. One is android application for users and another is web application for admin who gives approval or rejection to the leave request. The registration of the users and the requisition of the leave can be done through both applications. But the approval or rejection of the leave request is done by the web application only. In this Project, It hope to provide facility to apply leaves online and verify the number of leaves of each student and faculties. Student does not need to visit the department for their leave approval.

## II. OBJECTIVES

The main objective of this project is create an android application which will help students and faculties to apply for leave and get the approval or rejection of applied leave. It can be used to automate the workflow of leave application and their approvals. It is also useful for the student and faculties

to communicate with the college through online. The Students and the faculties does not need to visit the department and management for their leave approval. The approval or rejection of leave request is generated through web application by the admin.

## III. EXISTING SYSTEM

The existing system is manual. It is a lengthy process and this process is not optimized. The Head of Department and/or the Tutor are the competent authorities for the approval or refusal of leave depending on the type of leave. The leave request and its approval is a manual process in which the student or the faculties should visit the department and the administrator for their leave request and its approval. The leave requisition may be of prior or later in the manual leave request system. The leave requisition form is filled by the student or the faculties and it is submitted to the competent authorities before or after the leave taken. In the existing system there are certain drawbacks such as the students and the faculties need to visit the department and management for their leave approval and inconsistency in data entry and producing reports.

## IV. PROPOSED SYSTEM

The proposed system will help the competent authorities to formulate a decision regarding a leave request using this application. The request of the leaves and approval of leaves are done through this system. The project have two type of application. One is android application for users and another is web application for admin who gives approval or rejection to the leave request. The registration of the users and the requisition of the leave can be done through both applications. But the approval or rejection of the leave request is done by the web application only.

– Android Application for Students and Faculties

The application is to upload student and faculties details and apply for their leave.



Fig. 1: App Startup

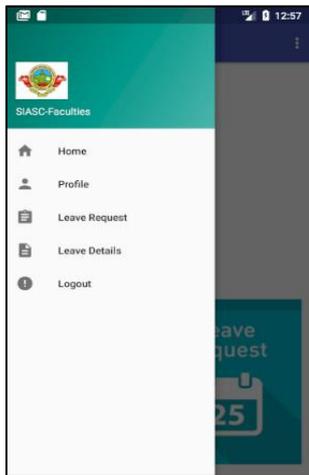


Fig. 2: Faculties Activity

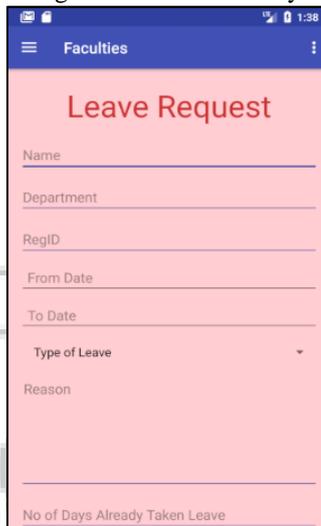


Fig. 3: Leave Request

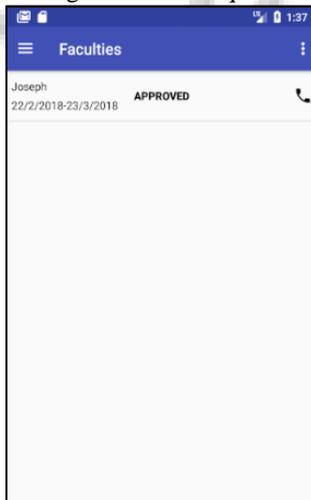


Fig. 4: Leave Details with Status

– Web Application for Admin  
The application is to give approval for the leave.

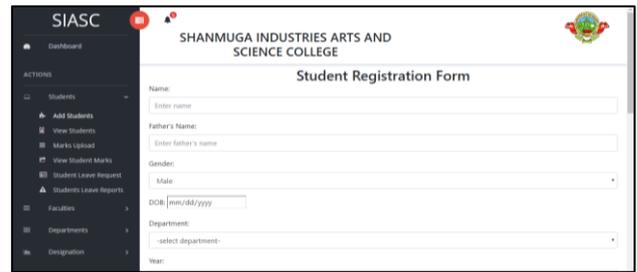


Fig. 5: Admin Menu with Student Registration Form

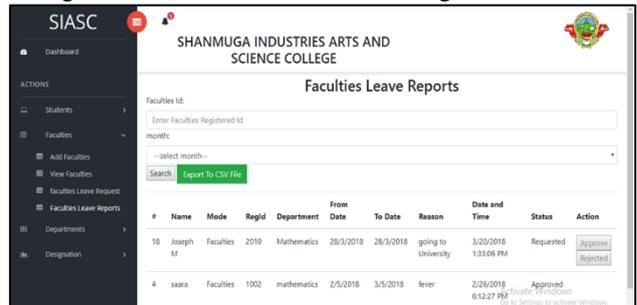


Fig. 6: Faculties Leave Approval or Rejection Report

#### A. Benefits

- Instance leave approval or refuse from the authorities.
- User friendly application.
- Minimum time needed for the various processing.
- Greater efficiency, time consumption and better services.
- High interactive application.

#### V. IMPLEMENTATION

In this project, the task such as registering details of the user, sending leave request and getting approval for the leave are take placed. For this process the android application and the web application should connected through internet.

The sequence of the process is as follows,

- 1) Select type of user- Student or Faculties
- 2) If the user has already register his details, the user can directly login using registered id and password. If the user not register his details, then the user enter the details and change them as registered user.
- 3) With the help of register id, the user can apply for the leave by sending leave request.
- 4) The approval for the leave is send back to the user using web application.
- 5) The user can get their status of the leave by viewing the leave details.

The system will facilitate online leave request and approval of the leave request. Project deals with registration or enrollment of students/faculties, submission of registration forms and create unique reg. id and password.

This application has Login module we need the reg. id and password facility and credentials should be checked properly at the time of login for student and faculties.

The application has Leave Request Module, that send the leave request to the admin and the approval for the leave is viewed in Leave Details Module.

#### VI. CONCLUSION

This project concludes that provide flexibility, reliability and easy use that apply leave and get its approval through online.

It gives us more comfort and better user interface. The student and the faculties can also apply for leave through this app using their account. The reports such as students leave report, faculties leave report, and monthly leave report, leave report for particular student and leave report for particular faculties can be taken. The reports can be exported to CSV file. The main benefits of the project is the Instance leave approval or refuse from the authorities.

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