BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Yelahanka, Bengaluru. 560064

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

PROJECT BASED LEARNING SYNOPSIS

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Project Title:	**ANDROID APPLICATION DEVELOPMENT**
Project Execution Place (Inhouse /Industry (Details of The Industry and External Guide (Name,Designation, Mail-Id, Contact No,Acceptance Letter to be enclosed))	In House
Project Category/Area(Research, Environmental and Societal, Product development , Industrial Live Project, Application Project,Case Study)	APPLICATION PROJECT

Abstract :

This Project is aimed to develop an android application which works as an e-commerce app for purchase of stationery items from BMSIT stationery shop and in addition this app provides Digitalization to Process like providing Direct soft copies for print out, announcements by shopkeeper , to check availability of items, and to know the Syllabus mentioned textbooks and their availability . To keep transparency at college level for quantity of stationary flow and to maintain adequate stock, and bookings can be taken as well.

Introduction :

In this Project we aim to solve a Real life daily problem which we are facing around in our college campus.
Students in the Campus face lot of difficulty in purchasing Stationery and to contact the stationary shop owner in campus for say,
- We do not have accurate information about timings of the shop.
- On major days, the shop remains closed without prior information.
- Lack of clarity on availability of Items (quantity/Stock).
- Huge amount of time spent waiting during break time due to hassle created at times due to print out errors, which sometimes leads us to miss our classes.
- 1sr Year students lack information about items they need or kind of textbook they should use.
- During Pandemic either of the two: students or the shopkeeper are at remote places which brakes communication. Etc.

So as a solution We Aim to develop a platform between the Students and Shopkeeper which can lead to a hassle -free purchase and Digitalization of the transaction.

Existing System :

We have to physically travel to Bmsit stationery shop and check out for timings or availability of stock or any other enquiry, To take print outs we have to wait and there is a long process and sometimes it doesn't work. Students are unclear about course material they require especially freshers .

Objectives :

1. To provide students, the announcements of stationery shop timings and other important announcements regarding stock etc.
2. To avail booking facility to students.
3. To provide Direct sending platform of printout soft copies.
4. To let institute, know about shop transaction and analysis of stationery movements in the shop.
5. Teachers can make announcement and give soft copies for notes/forms printout.
6. To make online cash transaction easy and accountable.
7. To reduce student time wasted waiting at stationary store.

Problem Statement :

To develop an Android Application which serves as a platform between students and Bmsit Shopkeeper, which can take student orders, and fulfil req. stock, create direct Contact to take printouts, provide home deliveries during holidays and during situations like pandemic.

Proposed System :

We aim to reduce student doubts regarding any concerned problems regarding college stationery shop, we provide various functionalities, where student have personal accounts to access the app, and the shopkeeper has admin account to update available items and stock and to make relevant announcements, Students can see req. textbook for their semester and make a choice of purchase. This app would be easy to access and with simple navigation.

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Methodology :

1. Create Student/Teacher and Admin login Account.
2. Check announcements of timings and Stock availability.
3. Make Req. stationery orders.
4. Confirm order and make payments.
5. Update cart as required by the students.
6. Post queries if any to the Shopkeeper.
7. Anytime and anywhere easy logout and login.

System Requirement Specifications

Hardware Requirements :

- Intel Core 5 and above
- Quad processor or higher
- CPU cores – 4
- No of parallel threads - 4
- 8 GB of available disk space minimum

- Cache - 8 mb (recommended)
- Freq - 1066 Hz
- RAM - 8 GB Min
- Clock speed - 3 GHz
- 1200 x 800 min screen resolution

Software Requirement :

1. Programming Language – Java, HTML
2. Operating System – Windows 8/10 64-bit , Ubuntu, Android

Applications of the Project :

1. To ease communication and create platform for BMSIT students and other stationery activities.
2. Provide facility to send soft copy and on-spot picture and send for print.
3. Serves to keep regular stock and update of stationary transactions.
4. To reduce waiting time and hassle at stationary shop.
5. An open forum for communicating with shopkeeper and posting books for other students in need.

References :

[1] ieeexplore.ieee.org (few additional papers referred)
Professional Internet Site
[1] Android Studio Documentation https://developer.android.com
[2] material.angular.io
[3] https://github.com/
  - Youtube Videos in process of real time learning.

Signature of Guide	Signature of Coordinator	Signature of HOD