MES COLLEGE OF ENGINEERING, KUTTIPPURAM
DEPARTMENT OF COMPUTER APPLICATIONS
20MCA245 – MINI PROJECT

PRO FORMA FOR THE APPROVAL OF THE THIRD SEMESTER MINI PROJECT

(Note: All entries of the pro forma for approval should be filled up with appropriate and complete information. Incomplete Pro forma of approval in any respect will be rejected.)

Mini Project Proposal No : 1
(Filled by the Department)

Academic Year : 2021-2022
Year of Admission : 2020

1. Title of the Project : MED APP
2. Name of the Guide : Ms. Febin Aziz
3. Number of the Student:
4. Student Details (in BLOCK LETTERS)

	Name	Roll Number	Signature
1.	SAREENA	46	

Date: 12/12/2021

Approval Status : Approved / Not Approved

Signature of
Committee Members

Comments of The Mini Project Guide Dated Signature

Initial Submission :

First Review :

Second Review :

Comments of The Project Coordinator Dated Signature

Initial Submission:

First Review

Second Review

Final Comments :

Dated Signature of HOD

MED APP

Sareena

Introduction:

The MED-APP is a mobile application for a pharmacy to reduce the problems prevailing in existing systems. This app also enhances the accuracy, reliability and efficiency of pharmacy operations. This android app also generates different kind of reports as per user's requirements. Moreover, this mobile application directly provides multiple services to their customers.

Objectives:

The main objective of the MED-APP is to manage all functions of a pharmacy and its services. It helps the pharmacy employees to manage medicine details, stocks, inventory, billing, purchase, sells, detect fake medicine etc. It also helps the customers to check the availability and prices of medicines, to detect fake medicines, to understand expiry of medicines, and to find a similar medicine from a different company, etc. It also sends notifications to the customers upon the arrival of new batches of medicines. It detects the fake medicines by scanning the barcode or verifying the authentication code. The other objectives are to reduce the paper usage, decrease malfunctioned works.

Basic Functionalities

Modules:

- **Pharmacy**
  - Registration : User need to register by fiiling up basic registration details of his/her pharmacy.
  - Login : User can login his respective account and access respective module.
  - Add : User can add medicine details.
  - View/Delete : User can view added medicines or can delete them.
  - Manage Sale : User can manage sold items by producing their report.
  - Billing : User can generate bills.
  - Expiry date : Shows medicines expire within 15 days.
  - Stock alert : Shows medicines with less stock.

- **Customer**
  - Registration : User need to register by fiiling up basic registration details.
  - Login : User can login his respective account and access respective module.
  - View Medicine : Display medicines with names in alphabetical order including price, expiry dates, manufacturer, etc.
  - Search medicine : User can search medicines based on Category, Company name, etc. and the user gets notification when the stock is available.

- **Fake medicine detection**
  - Both Pharmacists and customers can check the falsity of medicine by scanning the barcode or by verifying the authentication code of the respective medicine.

Methodology:

- Create an app which is suitable for both pharmacists and customers using Python language.
- Collect medical classification dataset from Kaggle which gives whether the medicine name, QR code/barcode and authentication code is fake or not.
- Change the dataset to dataframe through Pandas and train it in a K-Nearest Neighbor (KNN) algorithm model from Scikit.

Software Requirements:

- Windows XP/7/8/10 (Windows 7: Ultimate/ Enterprise)
- Python - Pandas, Scikit
- Python Django

Hardware Requirements:

- Processor - Core i3 or above
- Hard Disk - 500 GB
- Memory - 4GB RAM