

**PROBLEM STATEMENTS**

**(Department of Computer Science and Engineering)**

**Problem 1: Canteen Management System**

**Introduction and Motivation**

Canteen management is very improper in our college. There is no proper record of the items sold and bought, as now the token system is also not there making it even more mismanaged. During recess the rush increases and it becomes very difficult to get your order. Since time for the recess is limited and the rush is very high so booking an order beforehand will reduce the burden on the canteen workers too and will reduce the wastage of time to get the order ready. This will simultaneously reduce the rush in this peak hours and otherwise also. A proper record of the items bought and sold will remove any irregularity or any corruption in the resources. Digital India is the call of the day, accepting payment through PayTm will reduce the overhead of money management and it will be a very easy mode of payment even for the orders being booked beforehand. Each and every student is registered on this portal through unique id or you can even use the enrolment number as the unique id.

**Expected Users of the system:**

* Faculties
* Students

**Functional requirements of the system:**

STUDENTS

* Should be able to book any order beforehand.
* Should be able to specify the time by which the will reach.
* Should be able to make digital payment.
* Should be notified when their order is ready or when they don’t reach at the time given by them.

FACULTIES

* Should be able to book their order beforehand.
* Should be able to specify the time they will reach.
* Should be able to make digital payment.
* Should be notified when their order is ready or when they don’t reach at the time given by them.

**Problem 2: System for NITRR dispensary.**

NITRR has dispensary but the procedure is quiet longer and inefficient. Patient have to go there and register his name and then the patient needs to wait. After waiting, the patient will get the list medicines required and again they need to get those medicines. Quiet inefficient.

* Admin Login:- The system is under supervision of an admin.
* User Login/Registration:- Every student will enrol and an automatic id will be generated for every student of nitrr, which will be sent to their email and that can be used as a reference for faster access at dispensary.
* Medical History:- System allows to update and view patients medical history.
* Online appointment and E-Mail on making a appointment:- When user has successfully made an appointment a confirmation mail with estimated arrival time should be sent to him.
* Feedback:- The system has a feedback form, where user can provide feedback into the system.

**Problem 3. Face Recognition** :-

The network centric security and surveillance industry enabled by the IP-based cameras has been steadily progressing over the years. Now the advent of the Internet of Things (IoT) promises to turn this segment into a mass surveillance infrastructure. However, the cross over between IoT and surveillance is also demanding the edge devices like security cameras to get connected as well as get smart. So this problem requires to make a face recognition application irrespective of the platform that can distinguish between people.

Functional Requirement of System:

1. Should be able to capture images and store list of people approved to enter the building.

2. Should distinguish between people present in the list and the one that are not approved to enter the building.

**PROBLEM 4: ONLINE TRAINING AND PLACEMENT APPLICATION**

This project aims at developing an online application for the Training and Placement Department of the college**.** To train and place the students in colleges, TPO’s have to collect the information and CV’s and manages them manually and arranges them according to various streams.

This  activity is under two steps the first one is we have to maintain the list of students and their credit records and the second is to maintain the company details and based on the company requirements. The students need to be list out branch wise, which is more complex task, and inform through notice boards.

To overcome the difficulty of student details which were manual in the current system and we generate detailed information about the students which will save our time to inform each batch and section and student profile is maintained.

**Expected Users:**

* TPO Incharge
* TPO members
* HOD
* Students

**Functional Requirements:**

* Notice generation
* Student list generation
* View student profile
* Mailing
* Result analysis

**PROBLEM 5: E- FARMING**

E-Farming is a project developed to build a website which will help farmers from to sell their products to different cities through online. Farmers can use this facility and can learn how is it possible and how they can use e-farming to sell their products. The main objective of this project is build a website which will help farmers from Indian villages to sell their products to different cities.

**Functional Requirements:**

This E-Farming Java Project has 4 major modules below:

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* **Admin:** Admin should be able to see all record from any users. The records shown for selling should be available in a format of Quantity name, Quantity available, price.  The database should be robust enough to handle all the online transactions which will be happening parallel.
* **Users:** People can register in the site for some basic e learning like if some user wants to learn how to operate computer, they can go and learn it from the site. Site should also be available in local languages as per States.
* **Computer professionals:** Automatic transfer of mails to company’s computer professional if some user enrolled for basic course There should be facility of scheduling classes for farmers who enrolled for basic courses.

**Reports:** Daily report of enrolment to Admin. Monthly report of enrolment as per states to Admin.  Work hour uses of Computer professionals on a monthly basis to Admin.