

① College Information System

A Centralized approach and system for managing, storing, accessing and updating all the information and details present in relevance to students and teaching and non-teaching faculty, increasing efficiency of information management in education institutions.

- The system should be convenient and easy to use by students, management and faculty
- The system should be reliable source of information viewing (most importantly academic grades) for students, COE and faculty
- Education institutions should be able to add, edit and view student academic details like USN, department, semester and registered courses
- Faculty should be able to view all student details, and should be able to view and edit internal evaluation marks and attendance of students
- The COE office should be able to view all students details and view and edit internal examination marks and publish results
- Placement section should be able to view all student details and companies coming to the campus for placements
- Management section should be able to view, add and edit teaching and non-teaching staff details.

② Hostel management system

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→ The purpose of hostel management system is to carry out different operations of a hostel. This system will provide ease, comfort of use to the staff of the hostel by performing all work on computer. It helps to manage student and staff records.

- Students can login using the credential provided and can give feedback about staff
- Admin can login using credentials provided to him
- Admin can allot room to students
- Admin can review the feedback provided by the students
- Admin can appoint staff
- Students can provide mess feedback
- Mess manager can review the mess feedback
- Mess manager can update the menu list
- Admin can assign work to staff members
- The system should be easy to use
- System should give expected performance results
- The response time should be small.

③ stock maintenance system

→ the stock maintenance system will allow the employees to record information of the items available in the store and generate reports based on the total amount of sales. the new system will have a window-based desktop interface to allow employees to enter the information of sales, purchase order, change employee preferences and create reports. the system retains information on all the items in the shop. the system retains the records the cost, expiry date, vendor details discount, quantity. the employee maintains the information of the sale of the item. He can add the items at the right time and update the database. the customer can view the availability of the required items and the price of the items. the customer can just view them but cannot make any changes.

the process of stock maintenance system is that the customer logs in to the particular site to place the order for the customer product. the stock maintenance system is described sequentially through steps.

- The customer logs in to the particular site
- They fill the customer details at the place the orders for their product
- the vendor logs in and views the customer details and orders

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(h) Coffee vending machine

→ The objective of the system is to prepare a coffee vending machine for commercial purpose. The system will be able to prepare coffee by processing all its required ingredients. Users will be provided with sophisticated and easy to use user interfaces.

There are many different types of coffee makers using a number of different brewing principles. In the most common devices, coffee grounds are placed in a paper or metal filter inside a funnel, which is set over a glass ceramic coffee pot. Cold water is flowed to a separate chamber which is then heated to a boiling point and directed into funnel.

- Cash Box - knows amount of money put in, gives change, knows price of coffee, turns front panel on and off
- Front panel - captures selection, knows what to mix in each instructs mixers when to mix
- Mixer - knows how to talk to dispensers
- Dispensers - knows how to dispense a fixed amount empty.

Features:-

- Small carbon footprint
- Energy saving advanced power management system
- Comprehensive drink range
- Simple user interface
- One touch serving

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(5) Online shopping system

→ the online shopping system allows the user and vendors to exchange products removing and reduces the amount of cost and time substantially.

the software provides the following facilities to the customers:

- ✓ facilitates easy shopping online anywhere ~~in~~ categories with free shipping
- provides information about the products in categories
- the facility of purchasing second hand products
- can reserve if the particular product is not available
- customers are provided with up to date info on the products available
- Provides facility for future correspondence
- provides backup facility
- can add nearly to products to shopping cart at a time.

the software will not provide the following facilities to customers

- cannot reserve the product for more than 2 days
- cannot reserve more than 2 products
- Responsibility of damages
- Product cannot be changeable once confirmed.

the software provides following features to the customers.

- facilities easy bidding facility
- Provides compute information about the customers
- provides compute information
- can avail the facility of email correspondence
- can avail the brand catalog facility
- provides information about the products in categories
- the facility of purchasing several brand products
- can reserve if the particular product is not available
- customers are provided with up-to-date info on the products available
- provides facility for future correspondence
- provides backup facility
- can add nearly to product to shop
- and cost of a time

the software will not provide the following facilities to customers

- cannot reserve the product for more than 2 days
- cannot reserve more than 8 products
- responsibility of damages
- product cannot be chargeable once confirmed

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features

(6) Railway Reservation system

— To develop a user-friendly Railway Reservation system to enable passengers to book tickets online and make payment online as well.

It provides the train timing details, reservation, billing and cancellation on various types of reservation namely

- confirm reservation for seat
- Reservation against cancellation
- Waiting list reservation
- online reservation
- tatkal reservation.

this system enables advance booking in any class, against general and ladies quota, on payment of fare in full of adults and children, a maximum of 6 seats at a time, for journey b/w any 2 stations served by a time

It also provides details about :-

- Timetable
- Train fares
- Current status of reservation position
- Train available b/w a pair of stations
- Accommodation available for train, types of tickets etc.

⑦ Graphics editor system

→ the graphics editor provides an API that enables a programmer to develop own graphical model for a specific type of model. this API in turn relies on extending the eclipse graphical editing Framework to provide an environment in which the editor functions, and the programmer can create a graphical editor and palette of shapes in order to modify the underlying models. It provides an interface with which the programmer implements said editor for a given underlying model such an instance of the GEF allows a user to drag objects from a specified model into a working graphical diagram.

It should support following functionalities:-

- It contains the toolbox which contains tools like line, circle, arc, text, draw etc.
- color box palette
- standard toolbar with options for new, open, save, toolbox and text toolbox
- one integrated view to users for toolbox, color box, menu and graphic

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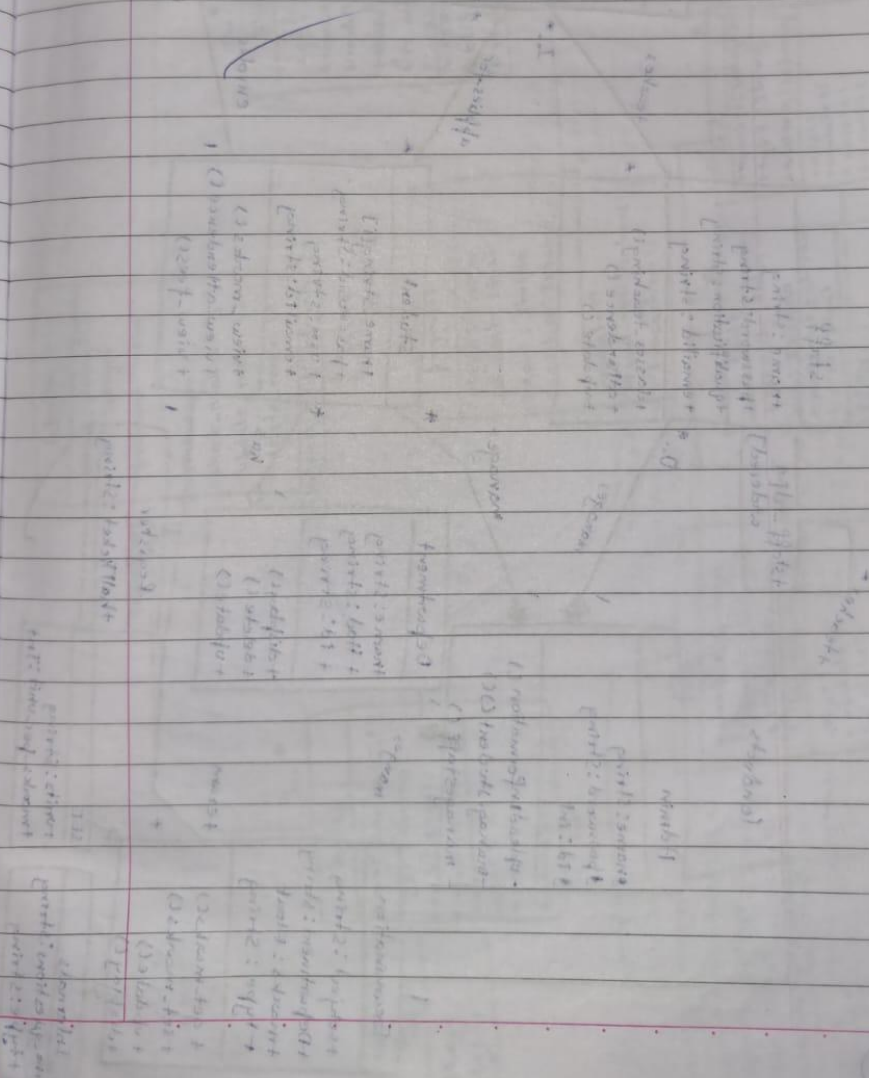
confirms
text,

trons
and

for
graphic

screen.

- Easy handling of tools for users
- Ability to group several drawings
- Provision of zoom in or zoom out
- Different shadings of line tool are provided.



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