

① College Information system

Problem Statement:

Manual college systems were paper based and difficult to maintain, expensive, more manpower required and unable to handle large records, the previous system was not efficient, not effective and there were issues of redundancy and consistency.

SRS :

We maintain day to day information, updates of students and employees. We manage information of book, question paper also helps in quick and easy access.

- * Educational Institutions should be able to add, edit and view student personal details. Pk, name, age, gender, email, phone no, address
- * Educational Institutions should be able to add, edit and view student academic details. Pk, USN, department, semester & registered courses.
- * Faculty should be able to view all student personal details and should be able to view and edit internal evaluation marks and attendance of students.
- * COE Office should be able to view all student details and view and edit internal and examination marks and publish results.

* placement section should be able to view all student details, and add companies coming to campus for placements.

* management section should be able to view, add and edit teaching and non-teaching staff details.

* Student should not be allowed to edit their personal or academic details.

* The system should be convenient and easy to use by students, management and faculty.

* The system should be reliable source of information viewing for students, COE and faculty.

② Hostel Management System

Problem Statement :

The hostel management system is to provide college students accommodation more efficiently than the existing system. The existing system uses pen and paper is hard to manage hostel system.

GRS :

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

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

③ Stock Management System

Problem Statement:

The existing stock management system does not have more features, stocks are not shown clearly and user interface is not good.

SRS:

The stock management system will allow the employees to view information of items available in store. The new system will have a windows-based desktop interface to allow employees to enter information of sales, purchase orders, change employee preferences and create reports. The system retains information on all items in shop.

- * Owner has a manager ^{who} ~~which~~ manages the inventory. The owner can order, sell stock. he can make payments, report quality items, return stock and track orders.
- * The manager maintains a ledger, does quality check and reports to owner.
- * In inventory, we can add, remove, edit and search the inventory. we can calculate the required and expired stock.
- * The order details contain details of orders.
- * The stock can be viewed, edited, added and removed.
- * The supplier tracks order details and supplies the stock and receives payment.
- * A product is added, removed, modified. The details of product...

④ Coffee Vending Machine

Problem Statement :

The coffee used to get in hand by the third person. It is not good in these pandemic situation. Lack of hygiene.

SRS :

Coffee vending machine is designed to dispense coffee in required quantity by collecting information such as type of coffee from customer and estimating price and quantity necessary for preparation of particular type of coffee.

- * Controller should dispense the product, check availability of product, update product quality of the each dispense.
- * The selection panel sends status of selected product
- * The coin collector should count the coins given by customer and keep track of it.
- * Product dispenser should dispense the selected product.
- * The price and quality of product should be maintained.
- * Coin dispenser should dispense remaining amount to the customer.

⑤ Online Shopping System

Problem Statement:

The local shopping system does not have much collections. It also has the quality issue and price issue.

SRS:

The online shopping system allows the users and vendors to exchange products remotely & reduces the amount of cost and time substantially.

The system provides following facilities to customer.

- * Facilities easy shopping online anywhere with free shipping
- * provides information about products in category.
- * can avoid the facility of purchasing second hand products
- * customers are provided with up to date information in the products available.
- * provides email facility
- * provides backup facility.
- * can add nearly ten products to their shopping cart at a time

The system will not provide the following facilities to customers:

- * cannot reverse the product for more than two days.
- * cannot receive more than two products
- * Responsibility of damages

The system provides following facilities to merchants.

- * Facilitates easy bidding facility.
- * Provide complete information about the customers.
- * Provides complete information about the products.
- * Can avoid the facility of small correspondence.
- * Can avoid the brand catalog facility.

⑥ Railway Reservation System

Problem Statement:

The ticket booking in station is a lengthy process and takes time. It is a waste of time.

SRS:

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

Railway reservation system which provides the train timing details, reservation, billing and cancellation on various type of reservation namely

- * Computer reservation for seat
 - * Reservation against cancellation
 - * waiting list reservation
 - * Online reservation
 - * tatkal reservation.
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- * Admin can add new train and supervise the ticket booking.
 - * Train has name and no. of passengers it can carry is specified.
 - * Railway station has name and details of train pass through it.
 - * Passengers can login/signup and can book ticket in particular train.
 - * Ticket has departure time, arrival time, start point and destination point on it.

* Ticket can be booked in general or tatkal.
quotes.

- * passenger can pay the ticket price online.

⑦ Graphics Editor System:

Problem Statement:

The existing graphics system has some loose parts. The AP2 is not good and does not contain new methods.

SRS:

The graphics editor provides an application programmer's interface that enables a programmer to develop their own graphical model editor for a specific type of model. This AP2 in turn, relies on extending the eclipse graphical editing framework to provide an environment in which editor functions.

- * It contains the toolbox which contains tools like line, circle, rectangle, etc.
- * color box or palette.
- * standard toolbox with options for new, open, save, toolbox and text toolbox.
- * One integrated view to users the toolbox, colorbox and graphic screen.
- * easy handling of tools for users.
- * Ability to group several drawings into one.
i.e. complex drawing.
- * provision of zoom in and zoom out.
- * Different shading of line tool are provided.