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SUBJECT CODE: CSA4387   **YEAR / SEM.**   **: III/V**

SUBJECT NAME: Internet Programming for Web Applications   **DATE**   **: 31.07.2024**

CLASS TEST   **: Model Practical Exam**   **Total Marks**   **: 100**

CREATE A WEBSITE FOR THE LIBRARY MANAGEMENT SYSTEM WITH THE FOLLOWING FUNCTIONS.

      The system helps both students and library managers to keep constant track of all the books available in the library. It allows both the admin and the student to search for the desired book.It becomes necessary for colleges to keep a continuous check on the books issued and returnedand even calculate fines.

Librarian Admin

- Login
- Add Book
- Update/Delete Book
- Issue Book for student
- Return Book Status
- Make Fine
- Update material (year, semester wise)
- View material

User

- Login
- Register
- Search Book
- My Borrow History Book
    - Issue Date, Exp Date
- Check Fine
- Search material (year, semester wise)
- Download material
- My profile

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CREATE A WEBSITE FOR ONLINE HOTEL ROOM BOOKING WITH THE FOLLOWING FUNCTIONALITIES

The System has the following Functionalities,

Users

- Users can register at the hotel and then they can view or modify their profile.
- Users can book a room on any specific date.
- Users can view all their booking history at the hotel.
- Users can change the booking at any time 3 days before the arrival date.
- Users can cancel the booking at any time 3 days before the arrival date.
- Users can check the room availability at the hotel before they book a room.

Administrator

- Administrators can change the quantity and price of all four types of rooms.
- Administrators can change any specific booking details.
- Administrators can cancel any specific booking.
- Administrators can modify the details of static pages including room
  - information, about usinformation, contact us information, customer service Q&A details, local travel and shipping guide, and privacy policy after login.
- It should also contain a basic room type introduction, contact
  - information, customer serviceQ&A, local travel and shipping guide, and a privacy policy

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CREATE A WEBSITE FOR AN ONLINE BUS TICKET BOOKING SYSTEMUSING THE FOLLOWING FUNCTIONALITIES

Admin

In this system, the admin can maintain all the Bus information and maintain Bus category,comments etc. In this system, the admin can maintain the registered users, manage news, and the admin cangenerate reports and manage the whole system.

Passenger
Has the following Functionalities,

Login

Login Module includes various utilities like User Authentication, Change Password and ForgotPassword.

Registration

This website provides some facilities users can be Registered in this website. user can use thisfacility so user can make a registration
.

Book the Ticket

In this module, the admin can add a new bus category using this module. Bus Category containslike Volvo, Slipper coach, coach etc.

Cancel the Booking Ticket

In this Module, the User can cancel the booking Ticket.

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CREATE A WEBSITE FOR AN ONLINE TRAIN RESERVATION SYSTEM USING THE FOLLOWING FUNCTIONALITIES

The Reservation system should contain the following features:

1. If a passenger wants to reserve ticket(s), firstly, he/she has to log in to the Railway system with valid credentials. Then, the passenger has to provide his/her details with the date of the journey, names of the passengers and their details, origin station details, destination station details, and the class type of the required ticket(s).

2. The Railway Reservation System will provide the available Train-list, and Seat- availability, via-details.

3. To book a ticket passenger can pay through online/offline mode. After successful payment of the ticket fare the System will generate the ticket and PNR no. will be given to the passenger. The System also keeps the payment details and sends them to the system Admin.

4. The Passenger can check PNR status (confirmed, RAC, waiting list) by entering the PNR no. into the Reservation system.

5. The Reservation system should store all train details, fare details (by zone, class, and date wise), PNR no, date of trains, etc. This maintenance should be controlled by the Admin.

6. The System also has refund rules which have a date of reservation, ticket fare, and refundable percentage. The passenger can simply cancel the ticket(s) by entering the PNR no and a cancel ticket request. After cancellation, the admin will pass the refundable amount to the System and the System will give the refundable amount to the passenger.

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CREATE A WEBSITE FOR AN ONLINE INSURANCE MANAGEMENTSYSTEM USING THE FOLLOWING FUNCTIONALITIES

This system maintains information of managers who can deal with agents and customers. In existing system, the manual procedure is followed where records are used to maintain data which is a time taking process and requires manpower and calculating commissions dues. This system is where agents send SMS alerts to the policyholder to remindthem before and exceed the data of due.

Admin
- Login
- Approve Agent login
- View all agent details

Agents
- Register
- Login
- Create Customer
- Manager Customer Details
- Manage Policy Details
- Send SMS Alert

User
- Login
- Manage policy details
- Get SMS alert

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CREATE A WEBSITE FOR AN ONLINE TOLL GATE PAYMENTAPPLICATION USING THE FOLLOWING FUNCTIONALITIES

This website should help the user to pay toll in advance therefore not to wait in queue whiletravelling.
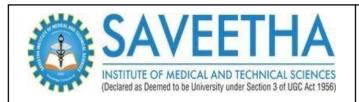
Admin
- Login
- Manage User & Toll pass
- Manage Toll login
- Approve toll pass
- Generate QR Code
- Create Toll details

User
- Register
- Login
- Add Money – eWallet
- Buy Toll eTicket
- Apply New toll pass
- Renewal toll pass
- Apply Toll pass
- Get QR Code for Toll pass

Toll Gate Entry Checker
- Login
- Scan QR
- Verify toll pass ID
- Verify Toll ticket
- Update toll location

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CREATE A WEBSITE FOR AN ONLINE COMPLAINT REGISTRATION AND MANAGEMENT SYSTEM USING THE FOLLOWING FUNCTIONALITIES

This website should help the public to get their problems solved online without goingto the officer regularly
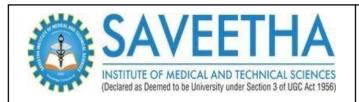
User
- Login
- Register
- Post Complaint
- Location Mark in Google Map
- View complaint status

Officer
- Register
- Login
- View Complaint
- Update status
- Update proof of work

Admin
- Generate id & password for officer
- Assigning Role for Officer
- Maintaining Officers

CREATE A WEBSITE FOR E. VOTING SYSTEM USING THE FOLLOWING FUNCTIONALITIES

In the first step, the registration process is done by the voters through an application. Then in the second step, the application will start its process. The already existing database or centralized database, contains voter information with linked mobile numbers. The server sends the OTP (One-Time Password) to the voter's registered mobile number. Then the voter enters that OTP, then the database again verifies that entered OTP by the voter and if it is correct that means it is a valid user. After that, the candidate's list will appear. This list contains the candidate's name and in front of that name, the button named 'Vote' is provided. The voter should have to press that button then only the voting is done and the voting procedure is completed.

Admin
- Create Election Candidate
- Allocate election Data with Candidate
- Allocate user to election wards
- Create Voter List
- Import Voter List
- View & update Voter List
- Get Election Results

User
- Login using Voter ID
- OTP Login Verification
- Get OTP for Voting
- Select Candidate
- Submit Vote

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CREATE A WEBSITE FOR ONLINE VETERINARY CARE FOR ANIMALMEDICAL SOLUTIONS SYSTEM USING THE FOLLOWING FUNCTIONALITIES

The System has the following functionalities,

Admin
- Managing Doctor
- Managing User

User
- Register
- Login
- Post Complaint
- My Complaint Status
- View Vet cure details
- View Doctor
- View Report
- Make Payment

Doctor
- Register
- Login
- View Complaint
- Post Solution
- Manage Cure
- View Payment Details

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CREATE A WEBSITE FOR AN ONLINE VEHICLE RENTAL SYSTEM USING THE FOLLOWING FUNCTIONALITIES

The System has the following functionalities,

Admin
- Login
- Add Vehicle
- Manage Vehicle details
    - Type, Price
- Manage Booking details
- Approve User Booking

User
- Register
- Login
- Search Vehicle details
- Select Vehicle & Make Booking
    - Name, Customer No, Address, Type
- View Booking Status
- My profile

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CREATE A WEBSITE FOR JOB APPLICATION WEBSITE USING THE FOLLOWING FUNCTIONALITIES

Applicants can browse through the vacancy details that are posted and can apply for the jobs online. Director can browse through the posted resumes and select suitable candidates. Filter, Search facility for User according to their required vacancy. Daily updates via notifications andother communication media. Sending resume saves effort, time and cost of user All vacanciesare available on a single interface user can set privacy level for different companies' user can save jobs according to their needs.

Admin
- Login
- Approve director
- View User
- View Report

Director
- Register
- Login
- Post Vacancy
    - o Image, description, contact, etc
- View Vacancy
- View applied users
- Logout

User
- Register
- Login
- Search vacancy
- Filter by location wise, category.
- Apply for vacancy
- Logout

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CREATE A WEBSITE FOR A GARBAGE MANAGEMENT SYSTEM USING THE FOLLOWING FUNCTIONALITIES

- Solid waste management can be broadly categorized as segregation, collection, and transportation. The server will collect the data and store them only a database. This data will be analyzed and displayed on two different dashboards that can be accessed by theworkforce and clients.

- Using data analytics, reports will be generated which can be monitored by the admins through the admin dashboard. Based on the data collected, garbage trucks can be given routes generated through various algorithms and google maps API to efficiently route through all necessary garbage bins and finally reach the dumping site Effective usage of dustbins.
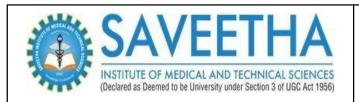
    Administrator
- Login
- Create Garbage bin
- Update/Delete garbage bin
- Assign best route for drivers
- Manage driver
- View Garbage Report
- View complaints from public

- **General Public**
  - Register
  - Login
  - Register complaint
  - My complaint & status

- **Driver**
  - Login
  - Check daily work updates
  - Choose best route
  - Update garbage load

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CREATE A WEBSITE FOR BLOOD BANK MANAGEMENT SYSTEM USINGTHE FOLLOWING FUNCTIONALITIES

The blood management information system offers functionality to quick access to donorrecords collected from various parts of the country. It enables monitoring of the results and performance of the blood donation activity such that relevant and measurable objectives of theorganization can be checked. It provides to management timely, confidential and securemedical reports that facilitates planning and decision making and hence improved medical service delivery. The reports generated by the system give answers to most of the challenges management faces as far as blood donor records are concerned.

Donor / User
- Login
- Register
- Post Donor information
- Edit Donor information
- Logout

Admin
- Login
- Manage Hospital Info
- Managing User Login to update Blood Group Status
- Post Blood bank info
- Logout

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(Declared as Deemed to be University under Section 3 of UGC Act 1956)

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CREATE A WEBSITE FOR TRAVEL AGENCY WEBSITE USING THE FOLLOWING FUNCTIONALITIES

The system allows one to easily access the relevant information and make necessary travel arrangements. Users can decide about places they want to visit and make bookings online fortravel and accommodation.
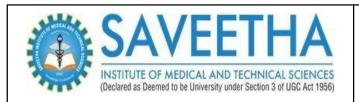
- User
- Admin

User
- Register
- Login
- View Food Details
- View Hostel Details
- View Route Details
- My Book Accommodation

Admin
- Login
- Post Tourism Details
- Manage Food Details
- Manage Hotel Details
- Manage Route Details
- View Booking Details

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CREATE A WEBSITE FOR ON-ROAD VEHICLE BREAKDOWN ASSISTINGUSING THE FOLLOWING FUNCTIONALITIES

On Road Vehicle Breakdown Assistance system can search for list of mechanics at any locationor the nearby locations which will help them in an unexpected situation raised by the mechanical issues of their vehicles. Only the licensed mechanics can get listed here while the search. Road assistance for car and there are available mechanic who can come and repair the mechanical issues in the users vehicle.

User Modules
- Register
- Login
- Search Mechanic Details
- View Google geo location
- Post feedback
- My profile

Admin modules
- Provide Approval

Mechanic modules
- Register
- Login
- Post Business
- Manage Business
- View feedback

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Total Marks : 100

CREATE A WEBSITE FOR ONLINE PAYMENT TO PHONE BILL
        By using this the customer can pay their phone bill,

Admin
- Login page
- Updating the formula for the calculation of bill for each customer with respect to the given constraints,
  - Upto 99 calls – Rs.50
  - 100 to 199 calls – 50 paise per call
  - 200 to 299 calls – 75 paise per call
  - Above 300 calls – Re 1 per call
- Page updated every month (Duration by start and end date), last date of payment
- Fine amount calculation (each date after the last date Rs.10 will be added as fine)

Customer
- Registration Page
- Login Page
- Bill payment by any one payment method

CREATE A WEBSITE FOR CALCULATING INCOME TAX

Website collecting input from employee needed for the calculation of income tax

Admin

- Login
- Update the fields required for collecting input from employee
- Modify the input value taken for the calculation based on government norms, Now your page can take the norms as follows,

Net Taxable Income = (Gross pay * 12) - (House Rent Allowance *12) - (Standard Detection =50,000)- {(Pension*12)= Maximum detection of this category is 150,000} - (Health Insurance * 12)

if net taxable is below 500,000/- tax is Nil. if it exceeds condition then Tax calculation slab rate given below is to be followed.

0 to 250,000   tax=0,

250,001 to 500,000 tax= 5% (net taxable income – 250,000)

500,001 to 1000,000   tax= 12, 500 + 20% (net taxable income – 500,000)

if the income > 10,00,000, tax= 112,500 + 30% (net taxable income – 10,00,000).

Employee

- Login by any of the existing authenticated credentials (like social media login or gmail login)
- Calculating Tax page

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CREATE A WEBPAGE FOR RATING THE PAINTING AND DISPLAYING THE POSITIVE AND NEGATIVE RATINGS ABOUT IT.

Admin has to create a webpage for loading and getting reviews about the painting from customer.
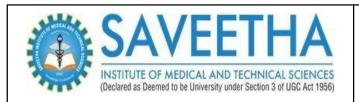
Admin
- Login
- Loading and Collecting reviews of both positive and negative about the Painting
- Updating the webpage by new painting based on schedules
- Before updating the new painting show the positive and negative reviews of the previous painting
- Login and Registration for owner of the painting
- Collecting money based on the number of days the painting will be available (Package) for customers review
- Mode of Transaction
- Customer Login through Social media or mail id authentication

Owner
- Registration includes submitting painting and choosing package and completion of
  payment
- Login
- Seeing their painting reviews

Customer
- Authenticated Login
- Submitting reviews about the painting

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CREATE A WEBSITE FOR CONDUCTING ONLINE PLACEMENT EXAMINATION FOR DISPLAYING SELECTED STUDENT MARK LIST.

      This website is used to conduct online examination for selecting students to get opportunity to work in a software company. The website should contain the following information

Admin

- Login
- Providing Login rights to Candidate for attending exam
- Scheduling the Exam
- Loading the question
- Publishing the Result

Candidate

- Login
- Attempt the exam by choosing allotted schedule
- Seeing the Result

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CREATE A WEBSITE FOR ONLINE PAYMENT TO ELECTRICITY BILL.

　　　By using this the customer can pay their electricity bill

　Admin
- Login page
- Updating the formula for the calculation of bill for each customer with respect to the given constraints,
- If the type of the EB connection is domestic, Calculate the amount to be paid as follows

  First 100 units – Rs. 1 per unit

  101-200 units – Rs. 2.50 per unit

  201-500 Its – Rs. 4 per unit

  501 units – Rs. 6 per unit
- If the type of the EB connection is commercial, Calculate the amount to be paid as follows

  First 100 units – Rs. 2 per unit

  101-200 units – Rs. 4.50 per unit

  201-500 its – Rs. 6 per unit

  501 units – Rs. 7 Per unit
- Page updated every two months (Duration by start and end date), last date of payment
- Fine amount calculation (each date after the last date Rs.10 will be added as fine.

　Customer
- Registration Page
- Login Page
- Bill payment by any one payment method