

Student Project Scheme-2024

Motivation:

To provide a valuable and practical learning experience, motivating students to engage actively in the software development process and preparing them for the challenges and opportunities in their future careers.

Objectives:

1. To provide an opportunity for hands-on learning and practical application of theoretical concepts.
2. To enhance students technical skills, problem-solving abilities, and understanding of software development processes.

Scheme:

1. The student project scheme comprises three distinct phases:
 - Phase 1: Skill-Based Mini Project with no guide allocation.
 - Phase 2: Industry/Research-Based Project with guide allocation to individual groups.
 - Phase 3: Research-Based Project with guide allocation to individual groups.
2. Projects under this scheme will contribute to continuous assessment marks. Specifically, 5 marks will be awarded for the successful completion of Phase 1, 7 marks for Phase 2, and 10 marks for Phase 3.
3. This project scheme runs concurrently with any other ongoing projects that students may already be engaged in.
4. Participating in this project scheme is designed to enhance your professional skills and significantly contribute to the value of your resume.

List of Mini Software based Projects:

Sr. No.	Title of the Project
1	Expense Tracker: Develop an application for tracking personal or business expenses, with features like categorization, budgeting, and expense analysis.
2	Weather App: Create a weather application that fetches real-time weather data based on the user's location or a specified city, displaying current conditions and forecasts.
3	To-Do List with Voice Recognition: Build a to-do list application that allows users to add tasks using voice commands, providing a hands-free task management experience.
4	Student Grade Calculator: Develop a tool to calculate and manage the grades, incorporating features such as GPA calculation, grade prediction, and course planning.
5	Recipe Organizer: Create an application for organizing and storing recipes, with features like ingredient tracking, meal planning, and generating shopping lists.
6	Fitness Tracker: Build a fitness app that enables users to track their workouts, set fitness goals, and monitor their progress over time.
7	Library Management System: Design a system for managing library resources, including features such as book checkout, return, inventory management, and user accounts.
8	Chat Application: Develop a real-time chat application with features like private messaging, group chat, and multimedia sharing.
9	Parking Space Locator: Create an app that helps users find available parking spaces in a given area, utilizing data on parking lot occupancy.
10	E-Commerce Website: Build a simple e-commerce platform with features such as product listings, shopping cart functionality, and user account management.
11	Blog/CMS (Content Management System): Develop a blog or CMS application that allows users to create, edit, and publish articles with user authentication and basic content formatting.
12	Event Planner: Create an event planning application that assists users in organizing and managing events, including features like guest lists, invitations, and reminders.
13	Social Media Analytics: Build a tool for analyzing social media data, providing insights into user engagement, popular trends, and content performance.
14	Language Learning App: Develop an application to aid language learning, incorporating features like vocabulary practice, quizzes, and progress tracking.
15	Job Portal: Create a platform for job seekers and employers with job listings, resume uploads, and application tracking features.
16	Task Scheduling and Automation: Develop a task scheduling application that allows users to automate repetitive tasks on their computer, such as file backups, system maintenance, or data synchronization.
17	Language Translation Tool: Create a language translation app that uses popular translation APIs to translate text or speech from one language to another.
18	Online Quiz Platform: Build an online quiz platform with features like question banks, quiz creation, user authentication, and score tracking.
19	Movie Recommendation System: Develop a movie recommendation app that suggests movies to users based on their preferences, ratings, and viewing history.
20	Pet Adoption Platform: Create a platform for pet adoption, connecting pet seekers with available animals, and providing features for shelter management.

21	Smart Home Automation: Build a smart home application that allows users to control and monitor smart devices in their home, such as lights, thermostats, and security cameras.
22	Health Monitoring App: Develop a health monitoring application that tracks users' daily activities and sleep patterns and provides health-related tips and insights.
23	Language Flashcard App: Create a flashcard app to aid in language learning or study preparation, allowing users to create, share, and review flashcards.
24	Music Player with Playlist Management: Build a music player application with features like playlist creation, song recommendations, and basic music library management.
25	Employee Attendance System: Develop an organisation attendance management system, allowing employees to log their attendance and managers to track attendance records.
26	Virtual Classroom Platform: Create a virtual classroom application with features for online lectures, discussion forums, and assignment submissions.
27	Travel Itinerary Planner: Build a travel itinerary planner that helps users organize their travel plans, including accommodation, transportation, and activities.
28	Home Budget Tracker: Develop an application to help users manage their personal finances, track expenses, and set budget goals.
29	Car Rental System: Create a car rental platform that allows users to rent vehicles, check availability, and manage bookings.
30	Emergency Response App: Build an application that facilitates emergency response by allowing users to quickly call for help, share their location, and access emergency resources.
31	Online Food Ordering System: Develop a web or mobile application that allows users to browse menus, place orders, and track food delivery from local restaurants.
32	Document Management System: Build a system for managing and organizing documents, with features like version control, access permissions, and document search functionality.
33	Parking Ticket Management System: Develop a system for tracking and managing parking tickets, including features for payment processing, ticket history, and notifications.
34	Task Collaboration Tool: Build a collaborative task management tool with real-time updates that allow multiple users to work on and track tasks together.
35	Book Exchange Platform: Create an online platform for users to exchange or lend books, incorporating features like user profiles, book listings, and messaging.
36	Real Estate Listings App: Develop an application that allows users to browse and search for real estate listings, with features like property details, photos, and contact information.
37	Social Fitness Challenge App: Build a fitness app encouraging users to participate in challenges, set fitness goals, and share their achievements with a social community.
38	Tourist Guide App: Create a tourist guide application that provides information about popular tourist destinations, attractions, and local services.

39	Employee Task Tracking System: Develop a system for organizations to track and manage employee tasks, projects, and productivity with reporting and analytics features.
40	Smart Shopping List App: Build a shopping list application with features like item categorisation and price tracking that allows users to create, share, and manage their shopping lists.
41	Language Exchange Platform: Create a platform that connects language learners with native speakers for language exchange sessions, incorporating chat or video communication.
42	Code Snippet Manager: Develop an application for managing and organizing code snippets, allowing programmers to store, search, and share reusable ones.
43	Home Workout App: Create a home workout application that provides users personalized workout routines, progress tracking, and video demonstrations.
44	Collaborative Playlist Creator: Develop a music app that allows multiple users to collaborate on creating playlists and adding and voting on songs.
45	Stock Portfolio Tracker: Build an application that allows users to track and manage their stock portfolios with real-time stock quotes and performance analysis.
46	Mental Health Journal: Create a journaling app focused on mental health, allowing users to track their emotions, set mood goals, and receive positive affirmations.
47	Lost and Found Platform: Develop a platform where users can report lost items, and others can report found items, facilitating the reunification of lost belongings.
48	Online Language Learning Platform: Create an interactive platform for learning new languages, incorporating lessons, quizzes, and interactive exercises.
49	Job Skill Matcher: Build a platform that matches job seekers with suitable job opportunities based on their skills, experience, and preferences.
50	Recipe Recommendation System: Develop a system that recommends recipes to users based on their dietary preferences, cooking skills, and past recipe choices.
51	Interactive Storytelling App: Create an app that allows users to participate in interactive storytelling, making choices that impact the direction of the narrative.
52	Community Event Calendar: Build a centralized calendar for community events, allowing users to discover and participate in local events and activities.
53	Online Resume Builder: Create a platform that allows users to quickly build and customize professional resumes with templates and editing tools.
54	Emergency Medical Record System: Develop a system for storing and accessing emergency medical records, providing crucial information during medical emergencies.
55	Time Management and Productivity App: Create an app that helps users manage their time effectively, set goals, and track productivity using time-blocking techniques.
56	Public Transportation Scheduler: Develop a scheduler for public transportation, allowing users to plan routes, check schedules, and receive real-time updates.
57	Skill-based Gaming Platform: Create a skill-based online gaming platform where users can compete in various games to showcase their skills and win prizes.
58	Waste Management System: Build a system for managing and optimizing waste collection and disposal processes.
59	Volunteer Management Platform: Create a platform that connects volunteers with organizations in need, facilitating coordination and communication.

60	Task Manager Application: Create a Task Manager application that allows users to manage and organize their daily tasks efficiently.
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