

Title:	News Management System
Team Members	4 to 5
Description:	<ul style="list-style-type: none"> • A News Management System (NMS) is a comprehensive software solution designed to provide users with access to the latest news updates, facilitate news filtering by category, allow news rating, and display news articles in an organized manner. The system aims to inform users about current events and topics of interest while ensuring data accuracy and user engagement. • The News Management System should: <ol style="list-style-type: none"> I. Validate users' login credentials and Determine user roles (admin or regular user). II. Allow users to view news articles with details such as title, description, date, rating, and category. III. Implement news rating functionality, enabling users to rate news articles on a scale of 1 to 5. IV. Hide news articles with ratings below 2 to prevent the display of trivial or incorrect news to users. V. Enable users to filter news articles by category to customize their news feed according to their interests. VI. Provide users with the option to choose their preferred news categories to personalize their news feed.
Main Functionalities	<p>Admin Functionalities:</p> <ol style="list-style-type: none"> 1. Admin Login. 2. Allow administrators to create and publish news articles with details such as title, description, date, rating, and category, 3. Allow administrators to Edit and Delete 4. Add new categories: Allow administrators to create and assign new categories (e.g., Sports, Health) for news articles. 5. Assign news to categories: Enable administrators to categorize news articles and organize them efficiently. 6. Display the average rating for a specific news article title to provide users with insights into the article's overall reception. <p>User Functionalities:</p> <ol style="list-style-type: none"> 1. User Registration/Login 2. Search Functionality: Implement search functionality to allow users to search for news articles by keywords, titles, or dates. 3. Display the latest news articles to keep users informed about recent events and developments. 4. Enable users to view news articles based on specific categories of interest, enhancing content relevancy and user engagement. 5. News Rating: Allow users to rate news articles based on their perceived quality and relevance.

Title:	Mini وصلي Application
Team Members	4 to 5
Description:	Your customer wishes to reach his destination in the shortest possible path. Implement a C++ program that allows the user to enter the graph which represents the cities and distances between them, then find the shortest path to reach the destination from any given source city. Also find the shortest distance between each city and all the cities in the graph
Main Functionalities	<p>The program should allow the user to:</p> <ul style="list-style-type: none"> • Add graph (One undirected graph with cities and distances between them) • Display graph data • Update graph data • Add new city • Delete city (Don't forget the edges that are connected to this city) • Determine two cities as source and destination then find the shortest path between them <p>You must:</p> <ul style="list-style-type: none"> • Compute total distance of the shortest path • Display the shortest path (Cities names in the shortest path) • Use Dijkstra's Algorithm (Shortest Path) • Use the suitable Data Structure for each Algorithm • Use at least two types or more of data structures in this project • Save the graph data in file so the user can close the program and reopen it to continue working on the saved graph • The program must run continuously until the user chooses to exit <p>For saving Data:</p> <ul style="list-style-type: none"> • Load data from the program (Data Structures) into files only once at the end of your program after finishing. • Load data from files into the program (Data Structures) only once at the beginning of the program.

Title:	Hospital Management System
Team Members	3
Description:	<ul style="list-style-type: none"> • A Hospital Management System (HMS) is a comprehensive software solution designed to streamline and enhance the operational efficiency of healthcare institutions, including hospitals, clinics, and medical centers. It is a centralized platform for healthcare professionals, administrators, and patients to manage medical records, appointments, billing, and other critical aspects of healthcare delivery. • The Hospital Management System should: <ol style="list-style-type: none"> I. Validate user login data for accuracy and security. II. Determine user roles, such as admin, doctor, nurse, or patient, to control access and permissions. III. Provide functionality for patients to schedule appointments, view medical records, and communicate with healthcare providers. IV. Enable healthcare providers to document patient diagnoses, treatments, and prescriptions electronically.
Main Functionalities:	<p>Admin Functionalities:</p> <ol style="list-style-type: none"> 1. Registration and Login: Secure access for administrators to manage system settings, user accounts, and organizational data. 2. Patient Management: Add, edit, and delete patient records, including demographic information, medical history, and insurance details. 3. Staff Management: Manage healthcare provider and staff profiles, including scheduling, and assignments. <p>User Functionalities:</p> <ol style="list-style-type: none"> 1. Login/Registration: Secure authentication for patients, doctors, nurses, and other users to access personalized services and information. 2. Appointment Scheduling: Patients can request, reschedule, or cancel appointments with healthcare providers based on availability and preferences. 3. Medical Records Access: Provide patients with secure access to their medical records, test results, and treatment plans for better understanding and continuity of care.

Title:	Online Shopping Application
Team Members	4
Description:	<ul style="list-style-type: none"> An Online Shopping Application (OSA) is a comprehensive software solution designed to provide users with a seamless and secure platform for browsing, purchasing, and managing products online. It serves as a virtual marketplace where shoppers can explore a diverse range of products, add items to their shopping carts, and complete transactions using valid payment methods. The Online Shopping Application should: <ol style="list-style-type: none"> Provide secure user authentication for login and registration processes. Enable users to register new accounts with ease, providing essential details for personalized shopping experiences. Allow store owners to effortlessly add new products to the catalog, specifying product details, images, and pricing information. Offer robust search capabilities, allowing users to quickly locate specific products by entering keywords, categories, or other search criteria. Empower users to manage their shopping carts efficiently, allowing for additions, removals, and updates to quantities before proceeding to checkout.
Main Functionalities:	<p>Admin Functionalities:</p> <ol style="list-style-type: none"> Login: Secure access for administrators to manage system settings and user accounts. User Management: Add, edit, or delete user accounts as needed, ensuring data integrity and security. Product Management: Add, edit, or remove products from the catalog, including details such as name, description, price, and availability. <p>User Functionalities:</p> <ol style="list-style-type: none"> Login/Registration Product Search: Intuitive search functionality for users to find desired products quickly and efficiently. Product Browsing: Browse product listings by category, brand, or other filters to discover new items or promotions. Shopping Cart Management: Add, remove, or update items in the shopping cart before proceeding to checkout. Checkout Process: including options for payment method selection and order confirmation.

