

Criteria

1. Write requirements from the client description with appropriate user roles and their functionality
2. Add additional requirements from yourself would be remarkable
3. Create UML activity diagram
4. Create prototype
5. Prepare a presentation

Project 1 -

Open access journal management web application

The Open Access Journal Management Web Application is a comprehensive online platform designed to streamline the management and publication process for open access journals. This application aims to provide an efficient and user-friendly solution for editors, reviewers, and authors to collaborate seamlessly in the publishing workflow, ensuring the accessibility and visibility of scholarly research.

Key Features:

1. **User Management:** The web application allows administrators to manage user accounts, including editors, reviewers, and authors. User roles and permissions can be assigned to control access and responsibilities within the system.
2. **Submission and Peer Review:** Authors can easily submit their manuscripts through the web application, which initiates the peer review process. Editors can assign reviewers, track progress, and manage the review process efficiently. Reviewers can access and evaluate submissions, provide feedback, and make recommendations.
3. **Editorial Workflow Management:** The system provides a centralized platform for editors to oversee the entire editorial workflow. They can monitor manuscript progress, communicate with authors and reviewers, and make informed decisions about acceptance, revisions, or rejection.
4. **Manuscript Tracking and Version Control:** Authors and editors can track the status of manuscripts throughout the publishing process. The system maintains version control, enabling seamless collaboration, document sharing, and revision tracking.
5. **Article Publishing and Archiving:** Once a manuscript is accepted, the system facilitates the publication process. It generates HTML or PDF versions of the article, assigns a DOI (Digital Object Identifier), and publishes the article online. The web application also archives published articles, ensuring long-term accessibility and preservation.
6. **Article Metrics and Analytics:** The web application provides comprehensive analytics and reporting capabilities. Editors and administrators can access data on article views, downloads, citations, and other relevant metrics to evaluate the impact and reach of published articles.
7. **Open Access Compliance:** The system adheres to open access principles by ensuring unrestricted access to published articles. It supports licensing options, such as Creative Commons, and allows authors to specify copyright and reuse permissions.
8. **Customization and Integration:** The web application is customizable to meet the specific needs of different journals. It supports integration with external systems, such as indexing services, citation databases, and academic social networks, to enhance discoverability and visibility of published content.

Project 2 -

Fundraising management web application

The Fundraising Management Web Application is a comprehensive online platform designed to streamline and enhance the management of fundraising campaigns and donor relationships. This application aims to provide nonprofit organizations and fundraising professionals with a user-friendly solution to effectively plan, execute, and track their fundraising efforts, ultimately maximizing donor engagement and contribution.

Key Features:

- 1. Donor Relationship Management:** The web application allows organizations to maintain a centralized database of donors and prospects. It enables tracking of donor interactions, including communication history, contributions, and engagement activities. This feature helps build stronger relationships with donors and personalize fundraising efforts.
- 2. Campaign Planning and Execution:** Users can plan and organize fundraising campaigns within the web application. They can set campaign goals, define target audiences, create fundraising events, and design marketing materials. The application also allows for the integration of online donation platforms to facilitate secure and convenient donation collection.
- 3. Donation Tracking and Reporting:** The system enables efficient tracking and management of donations received. It records donor details, contribution amounts, and payment methods. Users can generate reports and analytics to gain insights into fundraising performance, donor retention rates, and campaign success metrics.
- 4. Communication and Engagement:** The web application facilitates effective communication with donors through email campaigns, newsletters, and personalized messages. It provides tools for segmenting donor lists, scheduling automated communications, and tracking engagement metrics. This feature helps nurture donor relationships and keep them informed about the organization's impact.
- 5. Volunteer Management:** Nonprofit organizations heavily rely on volunteers for fundraising activities. The web application offers features to recruit, manage, and communicate with volunteers. Users can assign tasks, track volunteer hours, and provide necessary training materials, ensuring smooth coordination and engagement.
- 6. Grant Management:** For organizations seeking grant funding, the web application provides functionality to manage the grant application process. It allows users to track and organize grant opportunities, submit applications, and maintain records of successful grants. This feature helps organizations streamline their grant-seeking efforts.
- 7. Data Security and Privacy:** The web application ensures the security and privacy of donor and organizational data. It incorporates data encryption, access controls, and regular backups

to protect sensitive information. Compliance with data protection regulations, such as GDPR (General Data Protection Regulation), is a priority.

8. Integration and Customization: The web application is designed to integrate with popular CRM (Customer Relationship Management) systems and fundraising platforms, allowing seamless data synchronization and enhancing the organization's existing tools. The application can be customized to match the branding and specific needs of each nonprofit organization.

Project 3 - Event management web application

The Event Management Web Application is a comprehensive online platform designed to simplify and streamline the planning, organization, and execution of events. This application aims to provide event planners, organizers, and attendees with a user-friendly solution that enhances collaboration, communication, and overall event experience.

Key Features:

1. **Event Planning and Organization:** The web application enables event planners to create and manage events efficiently. Users can set event details such as date, time, location, and ticketing options. They can also create event agendas, assign tasks to team members, and track progress to ensure seamless event execution.
2. **Registration and Ticketing:** The system provides a user-friendly interface for attendees to register for events and purchase tickets. It allows event organizers to customize registration forms, set ticket prices, and collect payments securely. Attendees receive automated confirmations and digital tickets, simplifying the check-in process.
3. **Event Promotion and Marketing:** The web application offers built-in marketing tools to promote events effectively. Users can create event landing pages, send personalized invitations and reminders via email, and integrate with social media platforms for broader reach. This feature helps maximize event attendance and engagement.
4. **Attendee Management:** The application enables event organizers to manage attendee information and preferences. It allows for efficient communication with attendees, sending updates, surveys, and personalized event information. Attendee data is securely stored and easily accessible for future events.
5. **Collaboration and Communication:** The web application facilitates collaboration among event planning teams, vendors, and stakeholders. It provides shared calendars, task assignment features, and real-time messaging, ensuring smooth coordination and effective communication throughout the event planning process.
6. **On-site Check-in and Registration:** The application supports on-site check-in and registration using mobile devices. Event organizers can quickly verify attendee information, scan digital tickets, and print badges or wristbands. This feature improves the check-in experience and enhances event security.
7. **Resource and Logistics Management:** The web application helps manage event resources, such as venues, equipment, and personnel. Users can track availability, assign resources to specific events, and generate reports on resource utilization. This feature optimizes resource allocation and ensures efficient event logistics.

8. Data Analytics and Reporting: The application provides robust analytics and reporting features. Event organizers can access data on registration numbers, attendee demographics, ticket sales, and attendee satisfaction surveys. These insights help evaluate event success, identify areas for improvement, and inform future event planning strategies.

Project 4 -

Project management web application

The Project Management Web Application is a comprehensive online platform designed to facilitate efficient project planning, execution, and collaboration. This application aims to provide project managers, team members, and stakeholders with a centralized solution to streamline project workflows, track progress, and ensure successful project delivery.

Key Features:

- 1. Project Planning and Scheduling:** The web application allows project managers to create detailed project plans, define tasks, set timelines, and allocate resources. It provides intuitive tools, such as Gantt charts and task dependencies, to visualize project schedules and identify critical paths.
- 2. Task Management and Assignment:** Users can assign tasks to team members, set priorities, and track task progress within the web application. It enables real-time updates on task status, facilitating efficient task coordination, and ensuring timely completion.
- 3. Collaboration and Communication:** The application provides a collaborative workspace for team members and stakeholders to communicate and collaborate. It offers features such as team discussions, document sharing, and real-time messaging, ensuring seamless communication and fostering collaboration.
- 4. Document Management:** The web application allows users to store, organize, and share project-related documents and files. It provides version control, access controls, and document commenting features, facilitating efficient document collaboration and ensuring that team members have access to the latest project information.
- 5. Resource Management:** Users can manage project resources, including team members, equipment, and materials, within the web application. It enables resource allocation, tracking resource availability, and optimizing resource utilization for effective project execution.
- 6. Time and Expense Tracking:** The application provides functionality to track time spent on project tasks and record project-related expenses. Users can easily log their time, track billable hours, and manage project budgets, ensuring accurate project cost tracking and financial control.
- 7. Reporting and Analytics:** The web application offers reporting and analytics features to monitor project progress, performance, and key metrics. Users can generate project status reports, track milestones, and analyze project data to gain insights into project health and make data-driven decisions.

8. Integration and Customization: The web application is designed to integrate with popular productivity tools, such as calendars, email clients, and document management systems, enabling seamless data synchronization and enhancing productivity. It also provides customization options to align with specific project management methodologies and organizational needs.

Project 5 -

Human resource management web application

The Human Resource Management Web Application is a comprehensive online platform designed to streamline and optimize various aspects of human resource management within an organization. This application aims to provide HR professionals, managers, and employees with a centralized solution to effectively manage HR processes, enhance employee engagement, and ensure efficient HR operations.

Key Features:

1. **Employee Database and Profiles:** The web application allows HR departments to maintain a centralized database of employee information. It enables the creation and management of employee profiles, including personal details, job roles, skills, and performance history. This feature facilitates easy access to employee data and supports effective talent management.

2. **Recruitment and Onboarding:** The application provides tools for managing the recruitment process, from job posting to candidate evaluation. It enables job posting, application tracking, resume screening, and interview scheduling. Additionally, it supports onboarding processes, including document management and employee orientation.

3. **Employee Self-Service:** The web application offers self-service features that empower employees to manage their personal information, request leave, access payslips, and update their records. This feature reduces administrative burden on HR departments and enhances employee satisfaction by providing easy access to relevant HR services.

4. **Time and Attendance Management:** Users can track employee attendance, manage time-off requests, and generate attendance reports within the web application. It facilitates efficient scheduling, supports time tracking, and ensures accurate payroll calculations.

5. **Performance Management:** The application enables the creation and management of performance reviews, goal setting, and performance evaluation processes. It provides a platform for ongoing performance discussions, feedback, and performance data analysis. This feature supports effective performance management and employee development.

6. **Training and Development:** Users can manage employee training programs, track training progress, and monitor skill development within the web application. It facilitates the scheduling of training sessions, tracks employee certifications, and supports continuous learning initiatives.

7. **Leave and Absence Management:** The web application streamlines the process of managing employee leaves and absences. It enables employees to request leave, tracks leave balances, manages approvals, and generates leave reports. This feature ensures accurate leave management and minimizes scheduling conflicts.

8. Reporting and Analytics: The application provides comprehensive reporting and analytics features. Users can generate reports on HR metrics, employee performance, turnover rates, and other key HR indicators. This data-driven insight enables informed decision-making and helps identify areas for improvement.