

**ADITYA ENGINEEERING COLLEGE**

**TITLE:** TECHNICAL HUB PROJECT INFO

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**Problem Statement:**

Managing many projects in academics can be difficult without a central system. Without one, projects can become disorganized, data can be repeated unnecessarily, and overall management can be inefficient. This often leads to missed deadlines, poor resource use, and communication problems.

**Objective:** To create a centralized website that stores and manages project details for both professional and academic projects. This website will be a single place where all project information is stored, making it easier to organize, find, and analyze.

**Key Requirements:** The system should have a strong database, user management, advanced search functions, data security measures, an easy-to-use interface, tools for reports and analysis, collaboration features, and the ability to connect with other platforms.

**Expected Outcome:** This central hub will improve project management, data organization, teamwork, and decision-making, leading to more successful project completions.

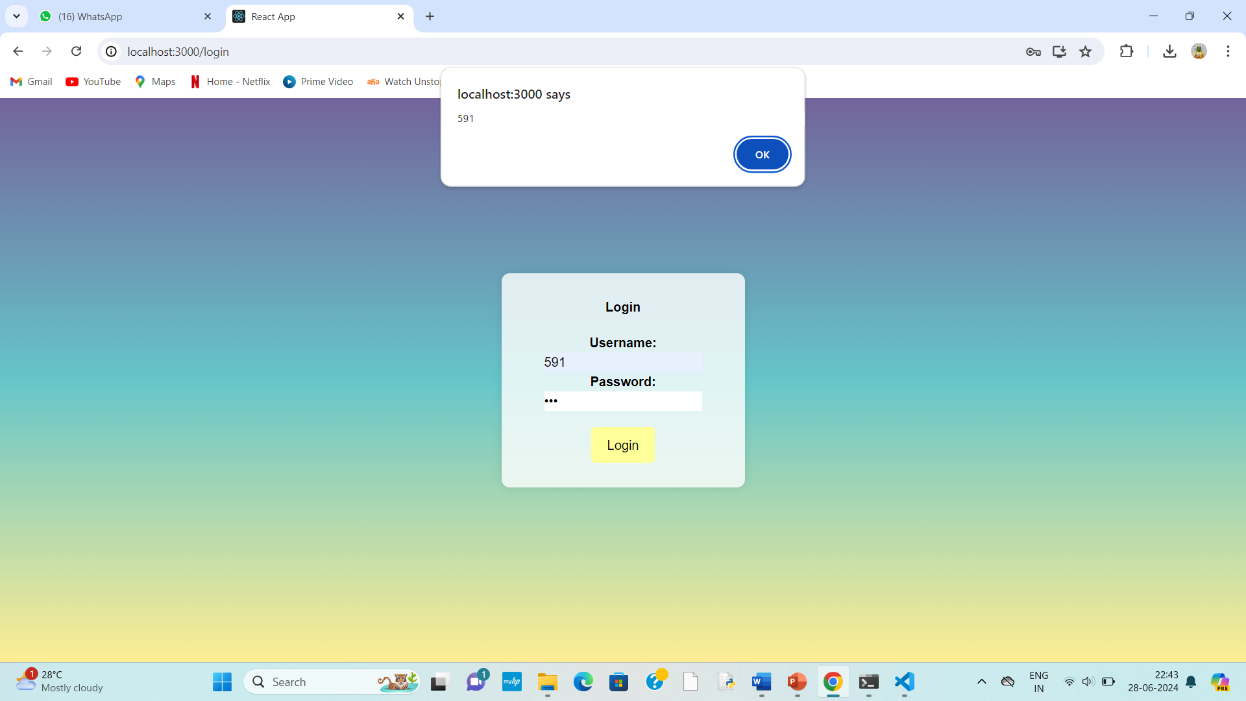
**Project Description:**

The project involves developing a website where users can store and manage project details within a technical community. This platform will serve both project space projects in the technical hub and academic projects undertaken in colleges. Each project will be listed on the site, allowing users to select a project and access a concise overview. The overview will be displayed in five columns: "Team Members," "Mentor," "Requested," "In Progress," and "Done."

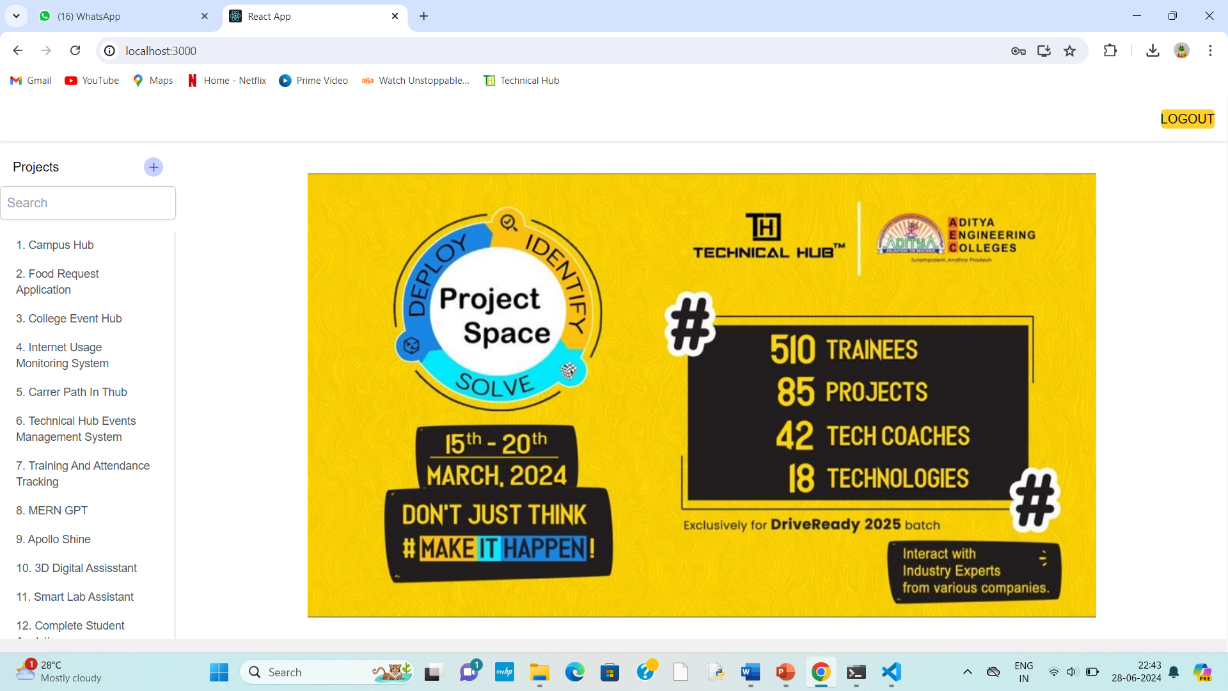
This layout will simplify tracking project progress and ensure easy access to status updates. By providing a centralized location for all project-related information, the platform will enhance organization, collaboration, and efficiency within the technical and academic communities. This website aims to improve project management by making it easier for users to monitor and update project statuses, thereby fostering a more productive and organized environment.

**Implementation:**

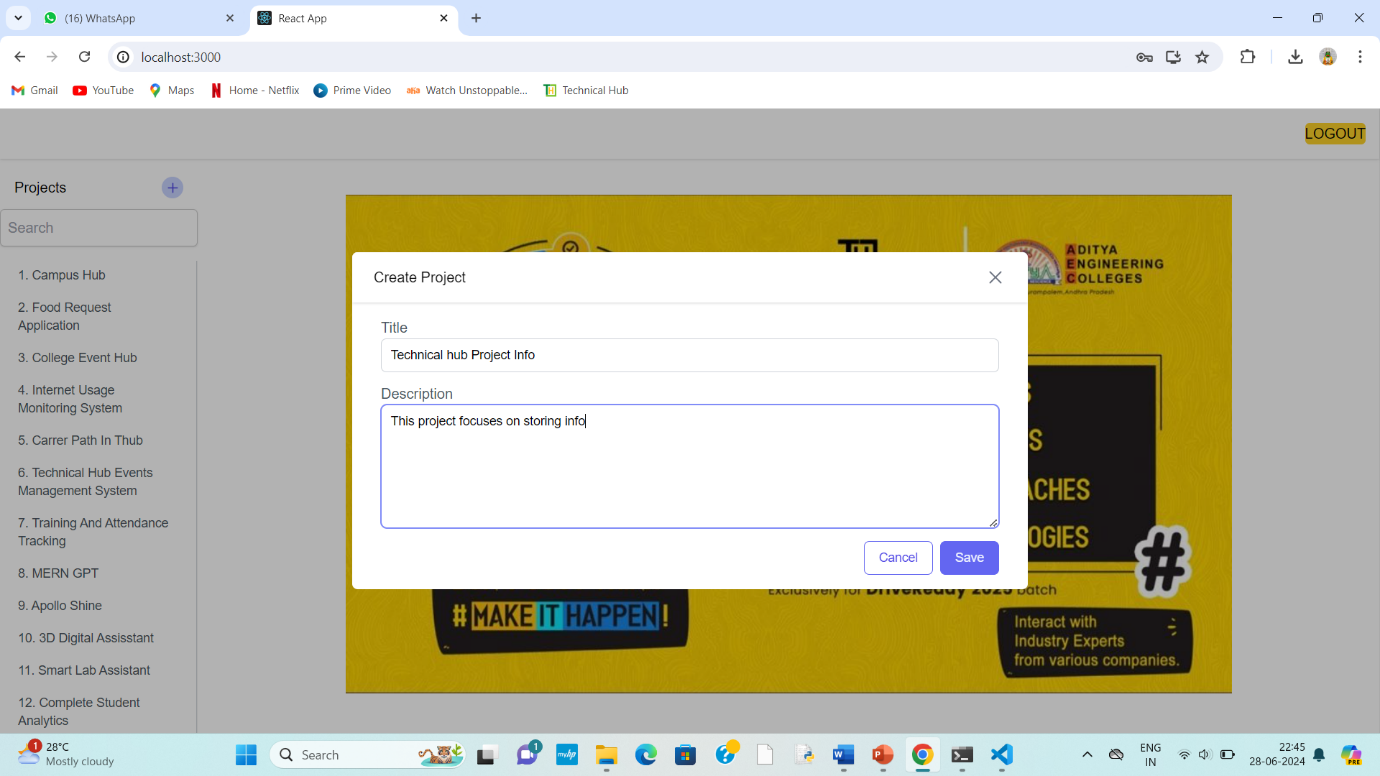
We implemented this website by first creating a secure login system.



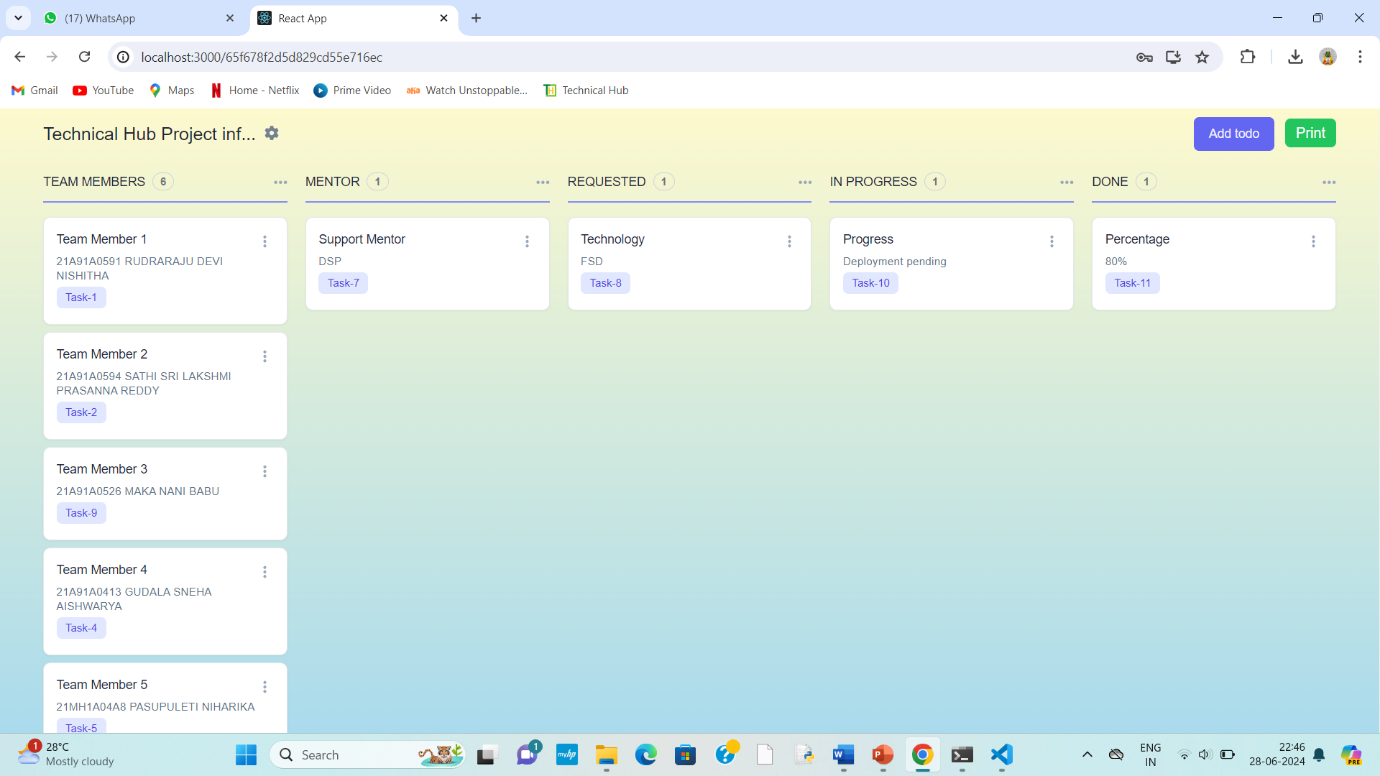
After logging in with credentials the following page will be displayed



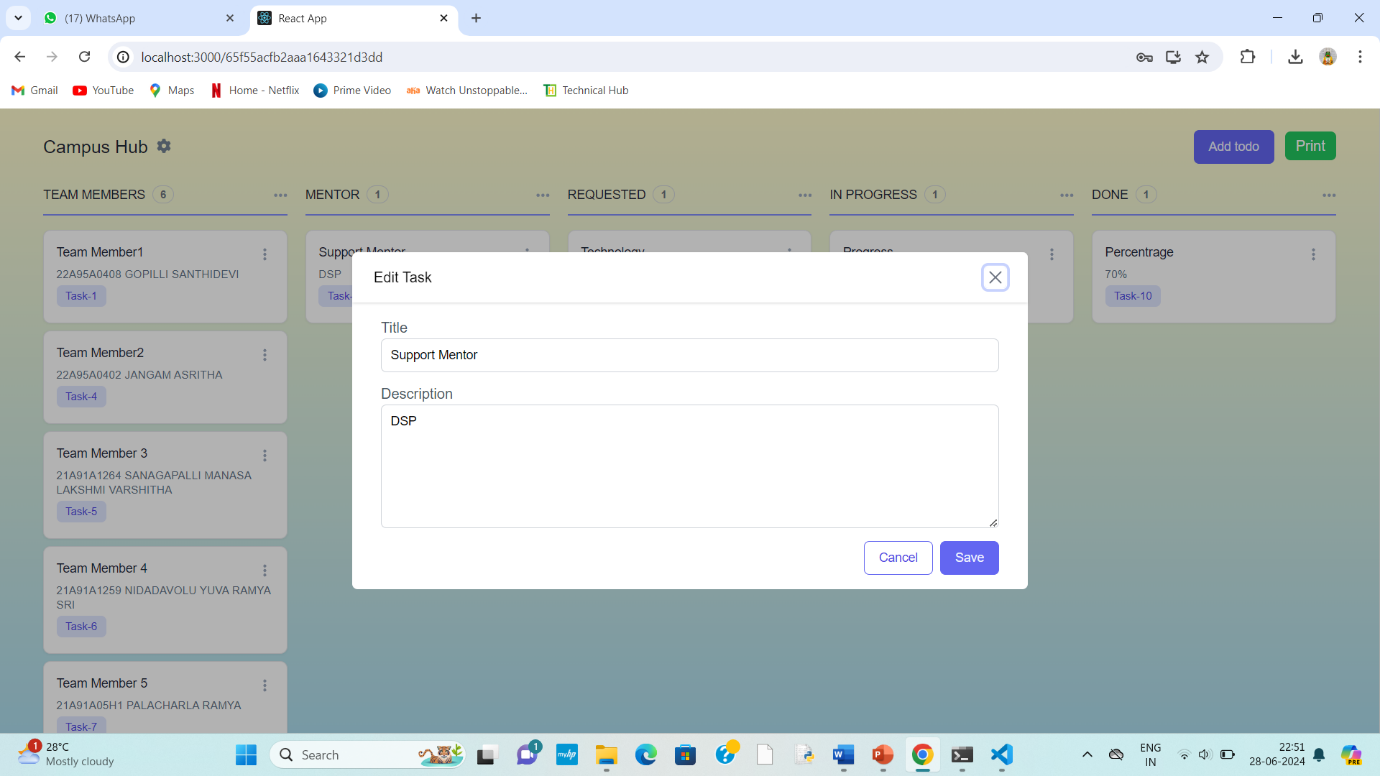
Later on,users can create a project by entering a project title and description.



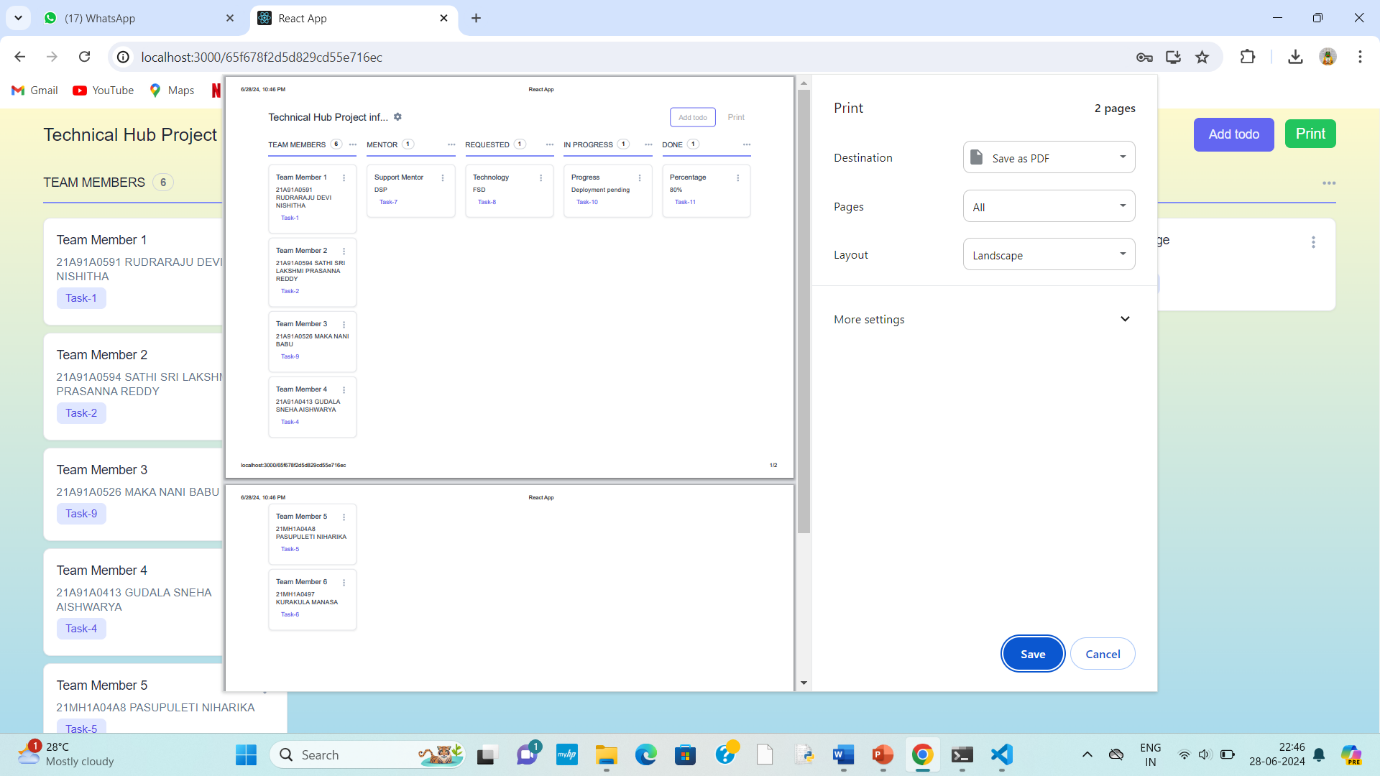
Once a project is created, users can fill in details under five headings: "Team Members," "Mentor," "Requested," "In Progress," and "Done." This structure ensures that all aspects of the project are comprehensively covered and easily accessible.



Users have the flexibility to edit or delete project details as needed, ensuring the information is always current and relevant.



Additionally, the platform offers the option to print project details for offline review or presentation purposes.



On the backend, we stored all project information in a robust database, ensuring data integrity and security. This setup allows for efficient data retrieval and management, supporting the platform's smooth operation. The database structure is designed to handle numerous projects and users simultaneously, maintaining performance and reliability. By centralizing project details in this manner, the website enhances organization, collaboration, and productivity within the technical community.

**Technologies Used:**

**Frontend:**

Javascript

Html

CSS

React js

**Backend:**

Node js

Mongodb

Express js

**Functionalities:**

1. **Project Listing:**
   * Users can view a comprehensive list of all projects stored within the technical hub, categorized by type (project space) or projects related to college (major, minor).
2. **Project Overview:**
   * Upon clicking on a project title, users are presented with a clear overview displayed in five columns: "Team Members," "Mentor," "Requested," "In Progress," and "Done."
3. **Progress Tracking:**
   * Each project's status is easily trackable through the platform, allowing users to monitor progress from initiation to completion.
4. **Real-time Updates:**
   * Users can edit and update project details, ensuring that information remains current and reflective of the project's status.
5. **User Management:**
   * Secure login and user management system to ensure that only authorized users can access and modify project details.

**CLOUD SERVICES :**

**OCI Compute Instances**

Once you've found the Automation Anywhere template or image on the Marketplace, you can deploy it on OCI Compute instances

**Networking Services**

Depending on your deployment requirements, configure networking services such as VCN, subnets, security lists, and internet gateways to ensure connectivity for your Automation Anywhere deployment.

**Storage Services**

You may need storage services like Object Storage or Block Volumes to store data and artifacts required by your Automation Anywhere bots**.**

**Integration Service**

Oracle Cloud offers integration services that allow you to integrate Automation Anywhere with other Oracle Cloud services or third-party applications

**Conclusion:**

The Technical Hub Project Info platform serves as a comprehensive solution for managing projects within technical hubs and educational institutions. It centralizes all project-related data, including details on team members, mentors, technologies used, project progress, and completion percentages, ensuring that information is easily accessible and up-to-date. This enhances organization, collaboration, and communication among stakeholders, reducing the risk of miscommunication and project delays. The platform's real-time update feature and progress tracking allow administrators to make informed decisions quickly. Additionally, the ability to print and export project details facilitates easy sharing of reports. Overall, this platform streamlines project management, promoting efficiency and successful project completion

**Main Motto: "Streamlining Project Management for Technical Hubs and Educational Institutions"**

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