Project Proposal:

Task Flow: Simple Web-Based Task Management App

Team Members:

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Problem Statement:

Individuals and teams frequently struggle with keeping track of tasks, managing deadlines and staying organized. Traditional to-do lists and static spreadsheets fail to provide interactive and visual feedback necessary for efficient task management. Moreover many existing task tools are often either too complex or locked behind paywalls, limiting access.

TaskFlow aims to solve the problem with providing a simple, user-friendly and web-based task management app. It will allow the user to visually organize their tasks using a Kanban-style board with customizable columns such as “To Do”, “In Progress”, and “Done”. The system provides clear visualization of workflow and progress, promoting personal productivity, along with team collaboration. The app is lightweight, easy to deploy and focused on simplicity, making it suitable for student groups, freelancers, small teams or individuals.

Proposed Features:

|  |  |  |
| --- | --- | --- |
| Feature | Description | Estimate Work-Hours |
| User Registration & Login | Secure account creation and login functionality | 6 hours |
| Create/Edit/Delete Task | User can create new tasks, edit existing ones, or delete tasks | 6 hours |
| Drag & Drop Task Movement | Allow users to move tasks between columns without reloading page using JavaScript drag-and-drop | 8 hours |
| Kanban Board Interface | Responsive visual task board built with HTML, CSS and Bootstrap | 5 hours |
| AJAX + PHP Task Update Logic | Real-time updates to task status in backend without full page reload | 7 hours |
| Task Filtering By User | Each user can view only their tasks | 4 hours |
| Status Persistence | Tasks remain in correct column between sessions | 3 hours |
|  | Total Hours | 40 hours |

Tech Stack:

* Frontend:
  + HTML/CSS + Bootstrap – For layout and responsiveness
  + JavaScript – To handle task movement
  + AJAX – For real-time updates
* Backend:
  + PHP – Server-side logic for managing task updates
* Database:
  + MySQL – Stores tasks, users and statues
* PHP + MySQL provide robust and scalable backend. AJAX enhances user experience. HTML + Bootstrap ensures responsive design.

Target Users:

* Students managing course work, projects, jobs, activities, etc…
* Freelancers planning projects and tasks
* Small teams or clubs organizing shared work
* Individuals looking to visualize personal task progress

Benefits:

* Encourage productivity with clear visual task tracking
* Help prevent forgotten or delayed tasks with real-time updates
* Provide no-cost alternative to commercial tools
* Can be customized to user preference/needs
* Reduce friction in team collaboration by keeping everyone updated on tasks
* Improves accountability through task logs

Real World Relevance:

In the world where digital learning, freelance work, small business, and remote work are increasing, lightweight, and user-centric tools like TaskFlow bridge the gap between complex project management platforms and basic to-do lists. It supports effective task tracking without overwhelming the user with unnecessary features.