

TEMPLATE FOR PROJECT PROPOSAL (Max. 5 pages)

1. **Theme:** Information/Communication Technology
2. **Problem statement:** How might we create a centralized dashboard for district administration to monitor and track the real time progress of work across all departments, ensuring efficient management and decision-making?
3. **College Code & College Name:** 4106 & Dhaanish Ahmed College of Engineering.
4. **Guide Name, Designation, Mobile No. & Email id:** Dr.M.Sree Rajeswari, Assistant Professor, 8883188179, sreerajeswari@dhaanishcollege.in
5. **Student Team details:**

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6. Project Summary

- The proposed project aims to develop a centralized dashboard for district administration to monitor and track the real-time progress of work across various departments. This dashboard will act as a single source of truth, consolidating data from departments like public works, health, education, and finance. It will provide real-time insights, highlight delays, and generate actionable analytics to aid decision-making.
- The project will focus on improving administrative efficiency, promoting accountability, and ensuring that public services are delivered effectively. The prototype will demonstrate key functionalities such as interactive data visualizations, alerts, and role-based access control, making it a practical tool for district governance.

7. Proposed Solution with Methodology

Proposed Solution

We propose building a robust and user-friendly centralized dashboard that will enable district administrators to:

1. **Track Progress:** Monitor real-time progress across departments through visual dashboards with charts, graphs, and progress bars.

2. **Integrate Data:** Combine information from multiple departmental systems into a unified platform.
3. **Generate Alerts:** Notify stakeholders of project delays, approaching deadlines, or anomalies.
4. **Analyze Data:** Provide detailed analytics to assess project performance and improve decision-making.
5. **Capture Feedback:** Include a citizen feedback mechanism to ensure public input is considered in governance.

Methodology

The project will be developed in the following stages:

1. **Requirement Analysis:**
 - Understand key data points from each department.
 - Identify metrics for tracking and analyzing progress.
2. **System Design:**
 - Create a system architecture for integrating multiple data sources.
 - Design a user-friendly interface with intuitive navigation.
3. **Development:**
 - Build the backend for data processing using technologies like Django or Node.js.
 - Develop the frontend using React.js or Angular for interactive visualizations.
 - Set up a database (e.g., MySQL or MongoDB) to manage consolidated data.
4. **Testing:**
 - Perform rigorous testing to ensure functionality, scalability, and security.
5. **Deployment:**
 - Deploy the prototype for pilot testing in a specific district.
 - Gather feedback from stakeholders to refine the system further.

8. Workplan / Time Schedule Indicating the Project Milestones

Milestone	Activities	Timeline
Phase 1: Planning	Requirement gathering and initial research	Week 1
Phase 2: System Design	Architecture planning, UI/UX mockups	Week 2 – 3
Phase 3: Development	Backend, frontend, and database creation	Week 4 – 6
Phase 4: Testing	Testing modules and integrating feedback	Week 7
Phase 5: Deployment	Deploying the prototype and final adjustments	Week 8

9. Plan of Action for Implementation

1. **Identify Data Sources:** Collect information from each department's existing systems.
2. **Design Data Flow:** Create secure connections for real-time data updates.
3. **Develop Core Modules:** Focus on progress tracking, data visualization, and alert mechanisms.
4. **Testing and Feedback:** Deploy the prototype for pilot testing in collaboration with local district offices.
5. **Iterate and Improve:** Refine the system based on user feedback and testing results.

10. List of Facilities Available in the College to Develop the Prototype

- **Infrastructure:**
 - Fully equipped computer labs with high-speed internet.
 - Servers for hosting and testing the dashboard.
- **Software and Tools:**
 - Access to development environments like Visual Studio Code and PyCharm.
 - Databases like MySQL and MongoDB.
- **Human Resources:**
 - Skilled faculty members for guidance in data analysis and application development.
 - Students with experience in web technologies, backend development, and UI/UX design.

11. Nature of Industry Support for the Project

- **Technical Collaboration:** Partnering with IT firms for access to APIs and tools for real-time data integration.
- **Mentorship:** Guidance from industry experts to ensure the dashboard meets professional standards.
- **Real-World Testing:** Collaboration with government offices for testing and validating the prototype.

12. Total Cost

Expense	Estimated Cost (INR)
Cloud Hosting and Servers	5,000
Development Software Licenses	3,000
Hardware Equipment (if required)	2,000
Travel and Communication Expenses	2,000
Miscellaneous	1,500
Total	13,500

13. Details of Financial Assistance Required (Limited to Rs. 15,000)

- We request financial assistance of INR 13,500 to cover expenses related to cloud hosting, software licenses, and testing. This funding will be instrumental in successfully developing and deploying the prototype.

14. Expected Outcomes / Results

1. **Functional Prototype:** A centralized dashboard capable of real-time tracking and visualizing data from multiple departments.
2. **Data-Driven Decisions:** Enable administrators to make timely and informed decisions.
3. **Scalable Model:** A system that can be extended to other districts or departments.
4. **Improved Public Service Delivery:** Ensure services are delivered efficiently by monitoring departmental performance and resolving bottlenecks promptly.

