

# INFRATECH SOLUTIONS

Eliscops



# INTRODUCTION

In this project, our aim is to revolutionize the way site owners oversee their projects' progress. By leveraging a dynamic blend of cutting-edge technologies, including HTML, CSS, Node.js, MongoDB, Express.js, React, Tailwind, and Chart.js, we've crafted a sophisticated yet user-friendly dashboard. This dashboard empowers bridge owners to effortlessly track a multitude of critical metrics: daily work efficiency, pending tasks, budget allocations, departmental hierarchies, and the progress of various project segments.



## PROBLEM

The challenge we're addressing stems from the fact that site owners, often non-technical individuals, grapple with the time-consuming task of manually supervising each department's progress. Their busy schedules leave them with limited opportunities to visit individual departments and comprehensively gauge the overall advancement of their project.



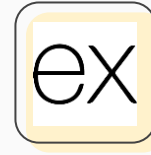
## LANGUAGES AND FRAMEWORKS



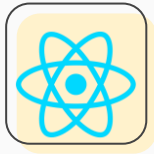
**JAVASCRIPTS**



**NODE JS**



**EXPRESS JS**



**REACT JS**



**REACT TAILWIND**



**CHART JS**

## WHAT WE LEARN FROM THIS EVENT ?

- Collaboration:we would collaborate across diverse technical areas (frontend, backend, database) and build cohesive solutions.
- Problem Solving: The team would face challenges in designing an intuitive user interface, managing data securely, and integrating various technologies.
- Agile Development: The project could be approached using Agile methodologies, allowing the team to adapt to changing requirements and deliver iterative improvements.

## ADVANTAGES OF OUR WEB APPLICATION

- **Time Efficiency:** Site owners could effortlessly monitor site progress from a centralized dashboard, saving time and effort.
- **Data-Driven Insights:** Visualizations through Chart.js would offer clear insights into daily work efficiency and budget allocation.
- **Task Management:** Department heads could assign tasks and track their completion, fostering efficient task management.
- **Employee Empowerment:** Employees would have a clear view of their tasks and accomplishments, enhancing their sense of contribution.

## INNOVATIONS FROM THE WEB APPLICATION

- **Accessibility:** The project bridges the gap between technical and non-technical users, enabling seamless tracking and reporting.
- **Real-Time Insights:** The provision of real-time progress updates and visualizations empowers better decision-making.
- **Hierarchical Tracking:** The hierarchical structure of access allows for precise oversight at different levels of the organization.

## **BUSINESS BENEFITS OF USING THE WEB APPLICATION**

- **Enhanced Efficiency:** Site owners, department heads, and employees would experience streamlined tracking and task management.
- **Informed Decision-Making:** Real-time insights into progress, efficiency, and budget allocation enable data-driven decisions.
- **Resource Optimization:** Effective budget tracking helps optimize resource allocation and prevent overspending.
- **Scalability:** The system can be expanded to accommodate larger projects and teams while maintaining user-friendly interfaces.



## FUNCTIONALITIES OF OUR PROJECTS

### OWNER'S DASHBOARD

- Visualizes daily work efficiency, helping owners make informed decisions.
- Displays pending tasks, enabling efficient task prioritization.
- Provides a budget overview, showing department-wise expenditure.
- Maps out the hierarchical structure of departments and their heads.
- Tracks sub-department progress, enhancing transparency.

### DEPARTMENT HEADS' DASHBOARD

- Offers a similar interface to the owner's dashboard.
- Enables the assignment of tasks to sub-departments.
- Allows task completion marking for efficient tracking.

### EMPLOYEE DASHBOARD

- Allows employees to monitor their colleagues' progress.
- Enables task completion marking, promoting accountability

Enter your Site Site1

Select Your Month

June

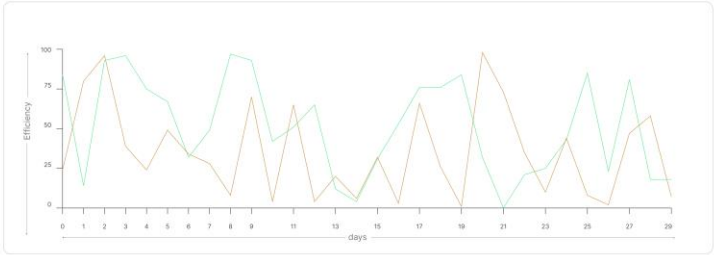
30% Pending Product

60% Completed Product

90% Overall Product Warded

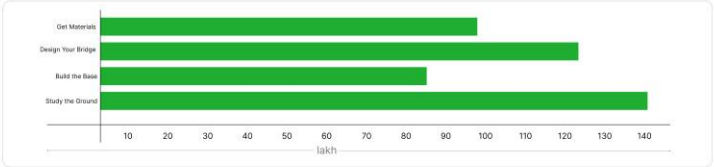
Efficiency

A measure of how effectively tasks are being completed each day throughout the month.



Budget

The total amount allocated for the bridge construction project.



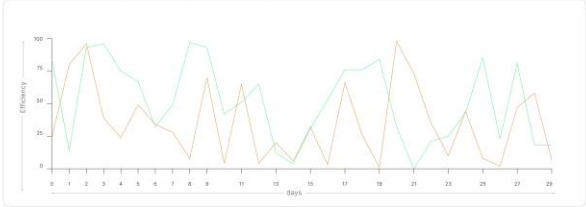
Team Managers

Milestones Pending Complete

Name	Project	status	No. Of Members	Deadline
Rohan J. Patel	Architecture	Milestones	12	12-10-2023
Manesh H. Shah	Plan Your Bridge	Pending	20	12-10-2023
Yash N. Prajapati	Check the Environment	Complete	10	12-10-2023
Manav H. Patel	Get Materials	Pending	14	12-10-2023

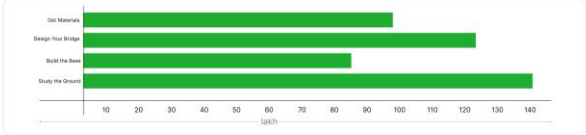
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Team Managers

Milestones Pending Complete

Name	Project	status	No. Of Worker	Deadline
Rohan J. Patel	Get Materials	Milestones	12	12-10-2023
Manesh H. Shah	Site Development	Pending	20	22-10-2023
Yash N. Prajapati	Surveying and Mapping	Complete	10	12-11-2023
Manav H. Patel	Urban Planning	Pending	14	12-12-2023

Task Completion

Surveying and Mapping — Tasks	
<input checked="" type="checkbox"/> Topographic Surveys	<input checked="" type="checkbox"/> Boundary Surveys
<input checked="" type="checkbox"/> Construction Surveys	<input type="checkbox"/> GIS Mapping

Submit

**OUT PUT**

# THANKS

Done By  
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