

# Project Management



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# Project Management



## Problem Statement

In today's fast-paced and competitive business landscape, effective project management is essential for ensuring timely delivery, efficient resource utilization, and alignment with strategic goals.

However, many organizations face persistent challenges due to disconnected data sources, manual reporting, and limited real-time visibility into key project metrics.

These gaps often lead to delayed decision-making, missed deadlines, inefficient allocation of resources, and budget overruns. To stay competitive, businesses must adopt integrated, data-driven project management approaches that enable agility, transparency, and informed decision-making.



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## Goals

### 1 Identify On-Time vs Delayed Tasks

- Categorize tasks based on whether they were completed before, on, or after the expected end date.
- Track performance at both task and user level (who created or handled the task).

### 2 Measure Turnaround Time (TAT) and Delays

- Calculate TAT as the duration from start to actual end.
- Analyze user-wise TAT to assess individual efficiency and flag patterns of consistent delay.

### 3 Visualize Timelines

- Use Gantt charts to display task duration from start to expected end.
- Overlay actual end as a marker to clearly identify delays.
- Break down visuals by user to show workload distribution and delivery timeliness.

### 4 Highlight Patterns in Task Completion

- Discover trends in which users, teams, or categories are regularly delayed.
- Identify time periods or specific users with better task adherence.



# Project Management Insights



## On-Time Delivery Rate

- Only 67% of tasks are delivered on time, indicating room for improvement in meeting deadlines.



## TAT Deviation by Employee

- Some employees, like Jack (-27%) and David (-20%), are significantly below average turnaround time, needing process review or support.



## Task Status Distribution

- Tasks are nearly evenly split—51% completed and 49% still in progress—showing balanced workload progression.



## Average Delay Trend

- Delays are increasing over time, with the latest tasks showing the highest average delay in days past the deadline.



## Task Delivery Performance

- Out of 12 tasks, 8 were delivered on time while 4 were delayed, reflecting a 33% delay rate.





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## Insights



### Employee Task Assignment

- Jack and Shreya are handling the majority of tasks, suggesting potential workload concentration.

### Individual Performance Snapshot – Alice

- Alice completed “Design Homepage” ahead of time and is progressing with “Code Contact Page.” Her TAT Deviation is just 9%, indicating strong performance.

### Task Timeline Tracking

- The project’s task timeline shows real vs. planned end dates using red and blue markers, helping identify slippage points quickly.

### Project & Sprint Filters

- Interactive dashboard filters allow project- and sprint-level views, enabling stakeholders to track performance with flexibility and precision.





# Thank You

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