

## Tasktrix – Streamlining Project & Timesheet Management

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### Overview

Tasktrix is an in-house project and timesheet management solution that centralizes project tracking, daily task logging, and weekly timesheet approvals in a single platform. Users can create projects, record daily tasks, automatically generate weekly timesheets, and submit them for managerial approval, with workflow defined at the project creation stage. It was developed to replace fragmented tracking methods, eliminate manual timesheet preparation, and streamline approval workflows.

### Business Problem

Before Tasktrix, the organization faced several operational challenges:

- Tasks tracked across spreadsheets and emails
- Manual consolidation of daily work into weekly timesheets
- Lack of visibility into project-level effort tracking
- Delays in timesheet approvals
- No centralized workflow control

These inefficiencies resulted in:

- Reduced productivity
- Inaccurate effort reporting
- Limited managerial visibility
- Approval bottlenecks

### 3. Solution Overview – Tasktrix

Tasktrix was developed as a unified internal platform that integrates:

1. Project Creation & Management
2. Daily Task Logging
3. Automated Weekly Timesheet Compilation
4. Manager Approval Workflow
5. Centralized Workflow Control from Project Creation

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### Key Features

#### Project Creation & Workflow Setup

**Impact:** Eliminates confusion in approval routing and ensures compliance with organizational processes.

#### Daily Task Management

**Impact:**

- Real-time task visibility
- Accurate effort tracking
- Improved daily productivity monitoring

#### Weekly Timesheet Automation

- All daily tasks automatically aggregate into a **weekly timesheet**.
- Users can:
  - Review weekly entries
  - Adjust time allocations
  - Add additional tasks if needed

**Impact:**

- Eliminates manual timesheet preparation
- Reduces reporting errors
- Saves administrative time

#### Manager Approval Workflow

- Weekly timesheets are submitted for approval.
- Managers can:
  - Review task-level details
  - Approve or reject entries
  - Provide feedback/comments

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The approval flow is directly tied to the project configuration.

**Impact:**

- Faster approval cycles
- Transparent communication
- Clear audit trail

**System Workflow**

1. Project Creation
2. Daily Task Entry
3. Automatic Weekly Consolidation
4. Submission for Approval
5. Approval / Rejection

This seamless lifecycle ensures structured tracking from start to finish.

**Technology Stack**

- Angular 16 | Bootstrap | .NET Core Web API | SQL Server

**Conclusion**

Tasktrix streamlined project and timesheet management by integrating task tracking, weekly reporting, and approvals into one system. By centralizing workflows and automating timesheets, it improved efficiency, transparency, and overall productivity.

