

# Task Manager

## Information Gathering and Research

What is the app?

- Task manager app that keeps track of assignments that need to be done
- Tailor for students?
- Different views:
  - View for assigning/managing
  - View to see others tasks
  - View for own progress

Team communication

- Mainly discord for meeting and messaging
- We meet at around twice a week, once on the weekend and once in the week over discord



Own Tasks

Landing Page

View Own Tasks

View Others' Tasks

Manage

Tasks not started

Task ...  
Date to finish  
Priority

Tasks in Process

Task ...  
Date to finish  
Priority

Finished Tasks

Task ...  
Date finished

Management

Landing Page

View Own Tasks

View Others' Tasks

Manage

Add user

Input username to add

Add task/Manage Finished

Choose user

Task to Add

Task details/ name

Date to finish

Task Priority

## Task Management

- We Used a app called penpot to set up a basic design for our app and kind of get an idea of what we were doing

## Requirements

- Need at least 3 views
- Persistent storage
- Model data
- Data Sanitization
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## User Story:

- Students logging on to see what assignments they have due
- Teachers posting assignments for their students to complete
- Managers posting assignment for their employee to complete by priority
- Employee seeing what task they have is the most important and its due date

## Features:

- Date assignment
- List of users to assign
- Priority weighting - will make a task be higher on the list
- Adding students/employees

## Extras:

- Swap list order: priority vs date
- Light and dark mode
- Time removal for completed

## What the users would do:

- Users can view their tasks and submit for completion.
- Users can view other users' tasks.
- Users will change tasks from given to in-progress.
- Management can add and remove users.
- Management assigns tasks to users with a due date and importance.

## Environment Set up and Challenges

### Environment

- **Discord** - Communication
- **Git & Github** - version control

- **Pen pot** - Initial sketches of the app
- **React (vanilla js)** - Tanstack router (latest version)
- **Node version 22.14-** Used NVM- node version manager to downgrade/upgrade everybody's node version (everybody stayed on this version of node to work on this project)

### Challenges

- **GitHub branches** - We were working on fixing the same piece of code across different branches, and it became confusing to keep track of who was doing what due to the numerous branches created. We also encountered merge conflicts, so we shared our screens and collaborated to resolve them together.
- **Structure of the data** - While testing it out with dummy data, each had a structure of what the data was going to look and get stored like and we had different codes written based on that. So there were 3 different branches with 3 different structures of how data was.
- Writing the validation and refactoring the code for some of the useState logics as our inputs wouldn't get setback to empty after submitting the form in the assign-tasks page.
- There was an issue with the execution policy and running scripts in Windows while running the tanStack router, so I needed to configure it, but it was an easy fix.

PowerShell has script execution policies that prevent running scripts by default.

```
Get-ExecutionPolicy -List
```

This will show the execution policies for different scopes.

```
Set-ExecutionPolicy -Scope CurrentUser -ExecutionPolicy RemoteSigned
```

This allows locally created scripts to run while still blocking unsigned remote scripts.

### Stretch goals

- Setting up to save the user information on all the pages, we tried it using useContext hook to make the state available to the entire app and do it but were not able to make it on time.
- We attempted to implement a drag-and-drop feature within the columns for each task, similar to many current Kanban boards. It seems there used to be a library for this, but they are rewriting the imports for version 19 in React. While there were other libraries available, they did not work as expected (like the animations and dragging part of it was kinda off). As a result, we decided to stick with our current setup for now.

### Resources

<https://tanstack.com/router/latest/docs/framework/react/installation>

<https://youtu.be/KcKkwF55Pes?feature=shared>