

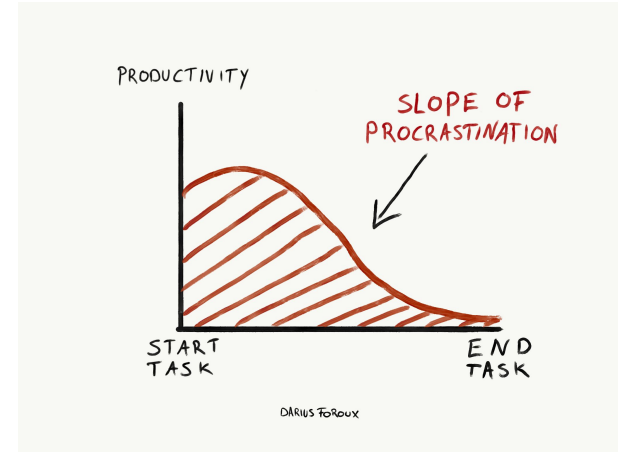


Canvas Kanban Board Final Presentation

The Painters: Justin Ridenour, Josh Davis, Ken Johnson, Torrin Conrath

Problem #1: Inefficient task management and procrastination.


- Task management is an essential part of software development. Ineffective task management can cause project delays or ineffective products.
- Individual contributors only complete 53.5% of planned tasks per week. 31.1% of teams accomplish less than 40% of their weekly planned tasks.
- Inefficient task management can also lead to procrastination, which drastically decreases the quality of completed work.
- 26% of people say they struggle with chronic procrastination, including an estimated 80-95% of college students.



Problem #2: Subpar Canvas Interface

- The canvas dashboard , does not offer many of the functionalities traditionally offered in task managers.
- Some notable missing features include: giving assignments an “in process” label, being able to give assignments different importance weights, or alternate sorting methods.
- Using a different task manager for canvas assignments requires manual integration of assignments to a 3rd party application.



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Dashboard

Today
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PERSONAL FINANCIAL PLANNING - SPRING 2024	> Show 1 completed item	
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Tomorrow, February 17

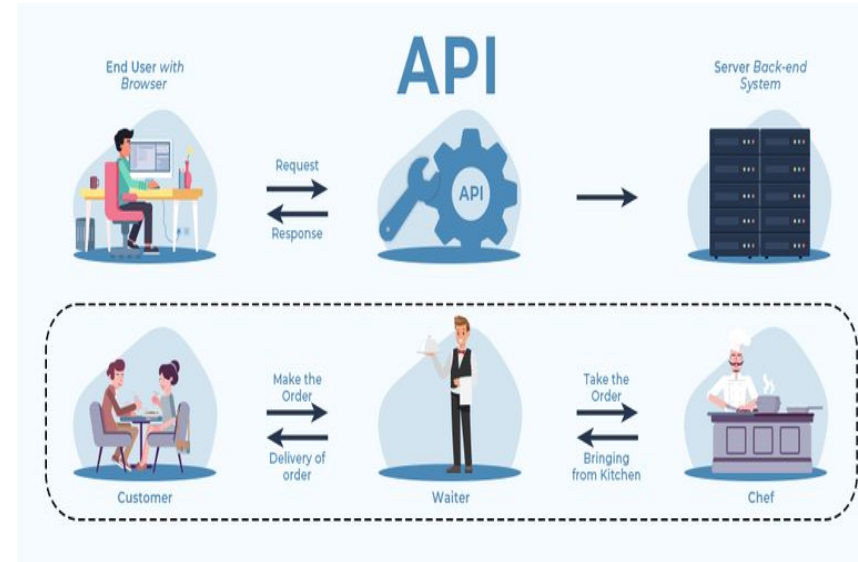
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Solution #1: Traditional Kanban board to assist with task management.

- Our Kanban board allows users to effectively visualize their upcoming tasks.
- Included functionality:
 - 3 status columns for tasks: upcoming, in progress, and complete.
 - Easy addition and removal of tasks.
 - Multiple sorting algorithms including date, importance, and topic.
- Studies have found that utilizing a Kanban board led to 35% faster delivery of tasks and a 15% productivity increase.
- Those using a Kanban board are able to effectively notice and adapt to changes in requirements, which is particularly important in computer science.

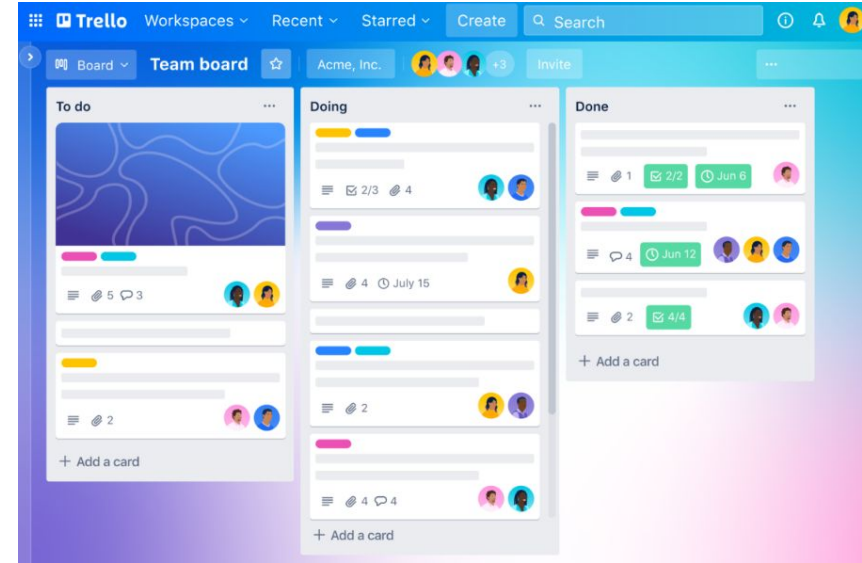
Solution #2: Canvas API integration for automatic update of task list.

- Our board hopes to utilize the canvas API to automatically update the user task list with upcoming canvas assignments.
- This will remove the need to manually add canvas assignments to a 3rd party task management system.
- This will also allow the user to have access to additional features not available in the canvas dashboard.



Related work

- Many software development companies seek to add upon the kanban board concept to make it easier for a team to manage themselves effectively and keep track of work tasks
- Some examples are Jira (from atlassian), ClickUp, and Trello



Class Concepts

- Knowledge of the software development life cycle was very important when developing the app. It allowed our team to effectively manage our workload and prepare for a demonstration
- The explanation of each of the different management strategies that have been created to manage software development teams was also very helpful and allowed us to choose an appropriate strategy for our team
- High-level design also aided in the creation of the kanban board and allowed for a hierarchical structure that worked for our tech stack.



Future work

- Integrate the Canvas API to automatically populate assignments. Removes the need for users to manually enter all assignments
- Implement a trash can for better usability, allowing users to drag items to be deleted
- Add the ability for users to create their own additional columns on kanban board. A user can add an extra column to categorize their work if desired
- Add a clear whole column feature. Simplifies user experience when performing a repetitive task. For example, a user may want to clear the entire “completed” column once it becomes overcrowded with assignments





Demo

Not Started

In Progress

Completed

+ ADD

+ ADD

+ ADD

Pomodoro

Press Play to Begin

00:00

PLAY PAUSE RESET

Managing Assignments: Manage assignments for both individuals and groups

Helping The User Focus: Has a Pomodoro timer and Surfer video, which can be benefit for people who have problems focusing and managing time.

Use Cases:

- Time Restricted Work Sessions
- During Work or Client Meetings
- Team Review Sessions
- Reviewing and Addressing Bugs on Coding Projects

Anytime you or your team wants to finish a set of tasks and are constrained on time and/or lack focus.

By further implementing Canvas API features, you won't need to manually input your tasks, however, this feature would only benefit individual students.



Sources

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