

COSC345 Assignment 1

Tempo

Meet The Team



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What is Tempo?

Tempo is a powerful command-line time management program for Windows. Create timers, alarms, and stopwatches to help boost your productivity at your PC, and experience it all with a retro but intuitive interface.

Back to basics

Tempo focuses on one very simple concept - **Time**. We aim to build an app that will enhance the user's relationship with time, from measuring to managing. To help with measurement, we have both a timer and stopwatch feature to fit your needs. For management, an alarm system will be implemented to keep you on schedule and on track. In the past, when you wanted to manage your time on your PC, you needed to use another device like your phone, or a web app filled with ads, trackers, and clutter. We want to strip that all away, and create something simple, powerful, and useful.



A quick Google search for “Timer” first shows Google’s own web app followed by other sites providing the same service. One problem is that an internet connection is required to do any of this, and you’re subjected to ads, trackers, potential malware, and general visual clutter. Temp, on the other hand, is completely local and usable offline. You simply run the program and immediately have access to all of Tempo’s features. To further simplify the user experience we aim to make it possible to use Tempo with just keyboard shortcuts, with presets for the timer, stopwatch, and alarm features.



Building Tempo

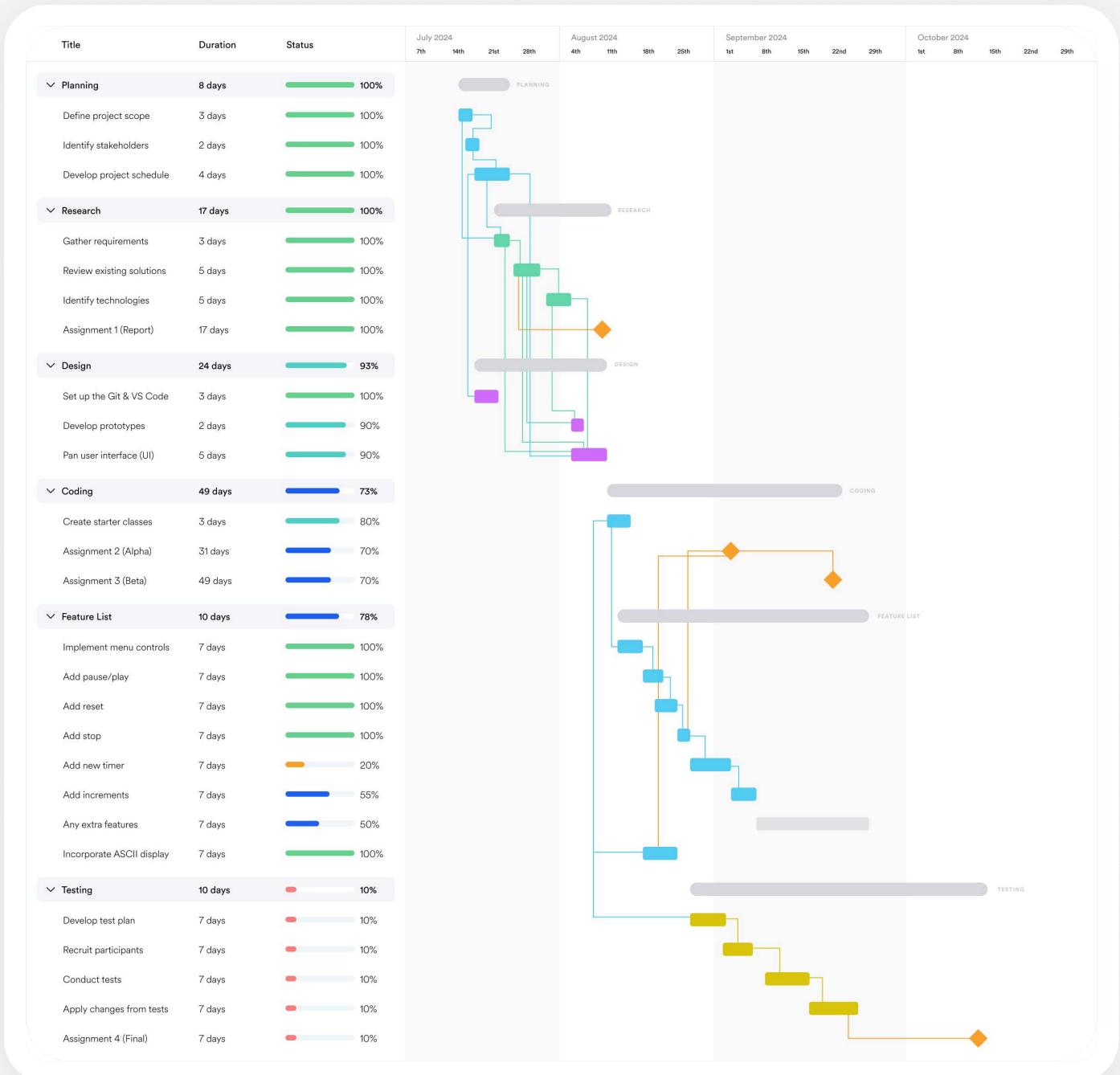
We see building Tempo like making a raft. We need to build the strong foundational pieces that can float on their own, the standalone features, and then tie them all together with our user interface and menu system to create a product that floats and functions as one. To accomplish this, we must plan development thoroughly.

As shown in the figure below, our project follows a natural progression. The planning phase is brief, covering basic foundations like gathering requirements. We then enter a two-week research phase to test the project's feasibility. If the project isn't viable, we will pivot to a new idea.

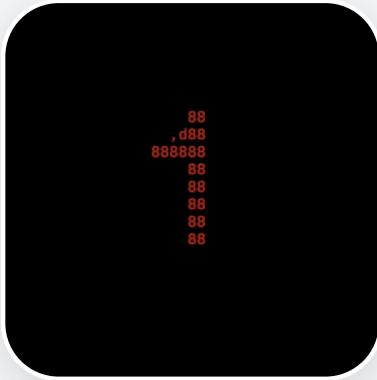
In the design phase, we create prototypes and plan the UI. Once satisfied, we begin coding, focusing on feature implementation. The testing phase runs concurrently with implementation to incorporate new ideas as they arise.

We start intensive testing a week before the second assignment (Alpha) is due. Our goal is to finish by the end of September, allowing time for any final adjustments if needed.

Gantt Chart



Current Alternatives



Termdown

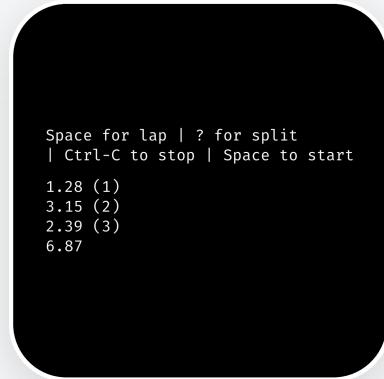
This is a terminal countdown timer and stopwatch. It installs with Python Package Index `pip install termdown` for free. It implements hotkey functions for fast controls.

[Click to view](#)

A linux stopwatch command

It's a stopwatch command for manually timing things: This command line timer runs on any unix and has been tested on linux and Mac OS X.

[Click to view](#)



Online-Stopwatch.com

This is an online stopwatch with multiple features, yet it is not command line. Needs internet access to run, so differs from a command line app. It's free and offers a countdown and stopwatch functions.

[Click to view](#)



Customer Interest

Appeal to Games & Speed Runners

Tempo's precise timing capabilities will generate significant interest from speed runners and gamers who require exact measurements for their activities. The app's accuracy and reliability will make it a preferred choice for those in the gaming community.

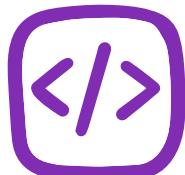


Strong Demand for Offline Tools

Customers will appreciate Tempo's offline functionality, especially those in locations with unreliable internet or who prioritize privacy. This feature will attract users who need a dependable time management solution without connectivity constraints.

Popularity Among Developers

Tempo's seamless integration into terminal environments will capture the interest of developers who seek a minimalistic, efficient time-keeping tool. Its ability to enhance productivity while fitting into a developer's workflow will underscore its value and appeal to this tech-savvy audience.



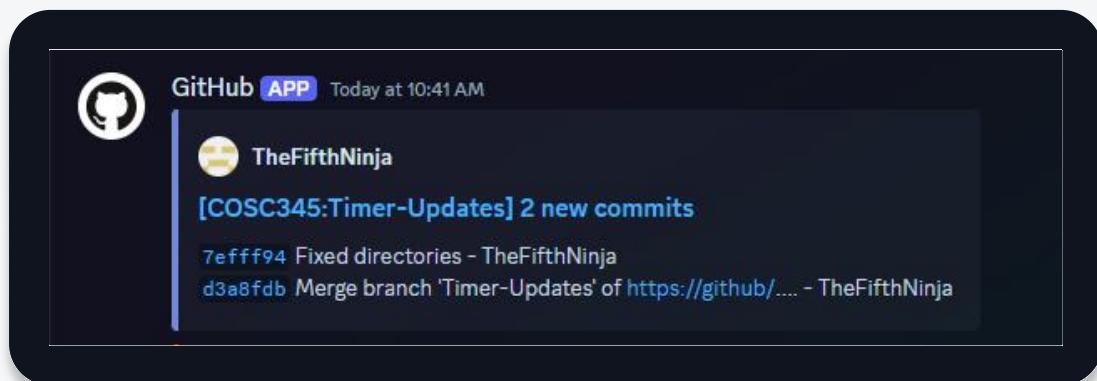
What's Cool About Tempo?

Project Planning and Development

Discord x GitHub Web-hooks

We have a special feed in our development server dedicated to notifications from GitHub. This allows us to easily discuss and take actions on commits, pull and merge requests, and releases all in the same place.

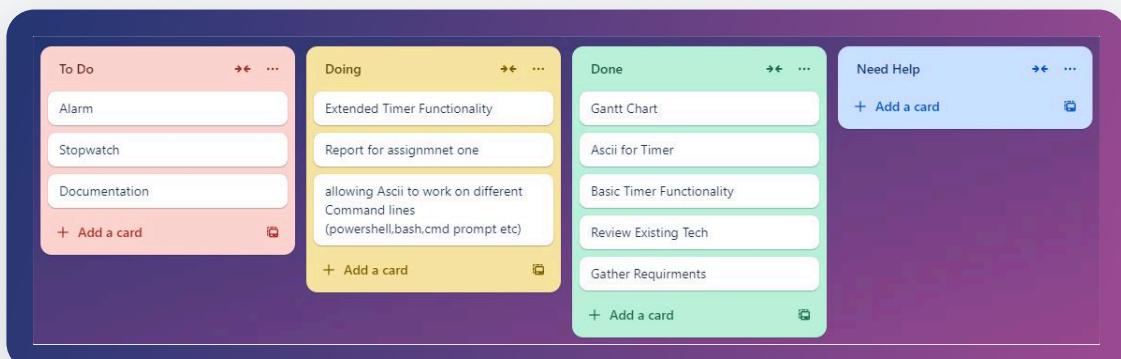
It's especially helpful because of how we can customize what we get notified by, and it's easy to ping someone with the needed skillset if something goes wrong.



Trello Board Project Management

We have put together a Trello workspace to streamline the workflow of development. It functions as an advanced to-do list, with cards/tasks that can be assigned to team members, and dynamically dragged and dropped into their appropriate categories.

Notably, we have included a list for tasks that need help. We're far from perfect developers, and it's necessary to have each other's backs during a project like this.



In-App Features

Full ASCII Art Display

The best way to serve a retro and fun terminal experience, we want to make our app run entirely with ASCII art output. From designing and storing, to a multitude of fonts, this is no small feat, and we're excited to bring you a fun and engaging interface.

Use of The oof.h Header Library

Later in development, we plan to use and credit a simple but powerful header file in Tempo to boost performance, visual aesthetics, and clarity.

The [GitHub readme](#) is a great place to see just how cool this one little file can be.