Re-Track Yourself

Atlantic Technological University

BEng(Hons) Software and Electronic Engineering

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Description

Re-track yourself is a desktop application that will help limit distraction.

Created for people who struggle with time blindness, ADHD, procrastination etc.

Helps the mind set a physical goal that the user can focus on.

Is this application needed?

During my research I found many of these tools are available as separate applications or extensions, not a multi tool application.

Many of these tools are integrated into chrome extensions but are limited to the current webpage which is useless if you are creating multiple tabs researching and/or studying.

With my project, the widgets are shown on top of what you are working on, so they are always in your peripheral view.

How I made it

I created my project with Electron, which is a JavaScript Framework which helps create native applications using Web based Technologies.

I used React to create my app UI and routing between my widget settings.

I used LocalStorage to send data between windows, and IPC to render additional screens from the main process.

Technologies and IDE Used

Electron

Electron is a framework for building desktop applications using JavaScript, HTML, and CSS.

By embedding Chromium and Node.js into its binary, Electron allows you to maintain one JavaScript codebase and create cross-platform apps that work on Windows, macOS, and Linux

https://www.electronjs.org/docs/latest/

React

React is a free and open-source front-end JavaScript library for building user interfaces based on components.

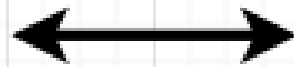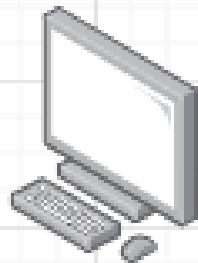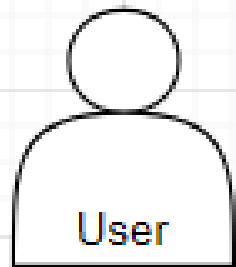I used React in my Project for Routing and creating custom components
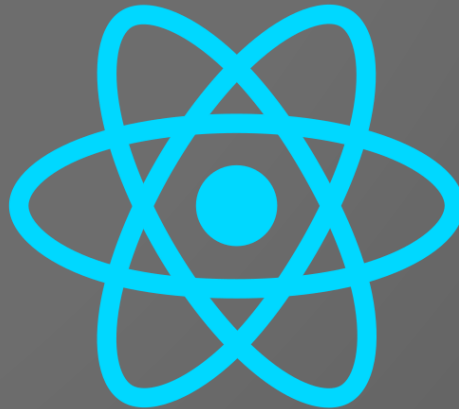
Visual Studio Code

Visual Studio Code is a lightweight but powerful source code editor which runs on your desktop. It comes with built-in support for JavaScript, TypeScript and Node.js and has a rich ecosystem of extensions for other languages and runtimes
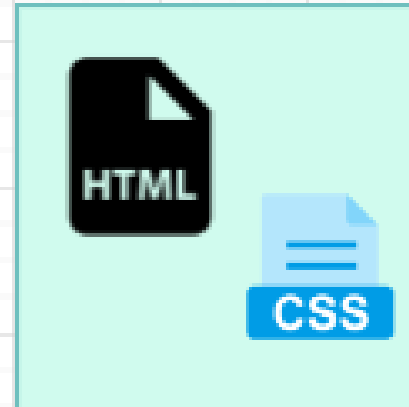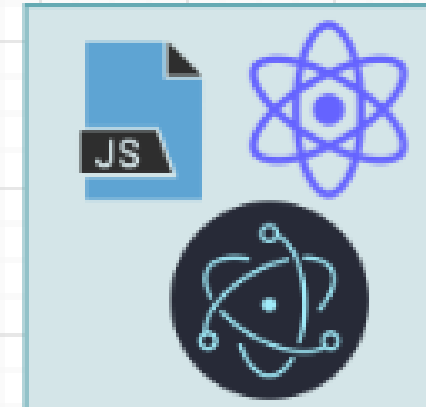
Architecture Diagram

Project Planning – Kanban Boards
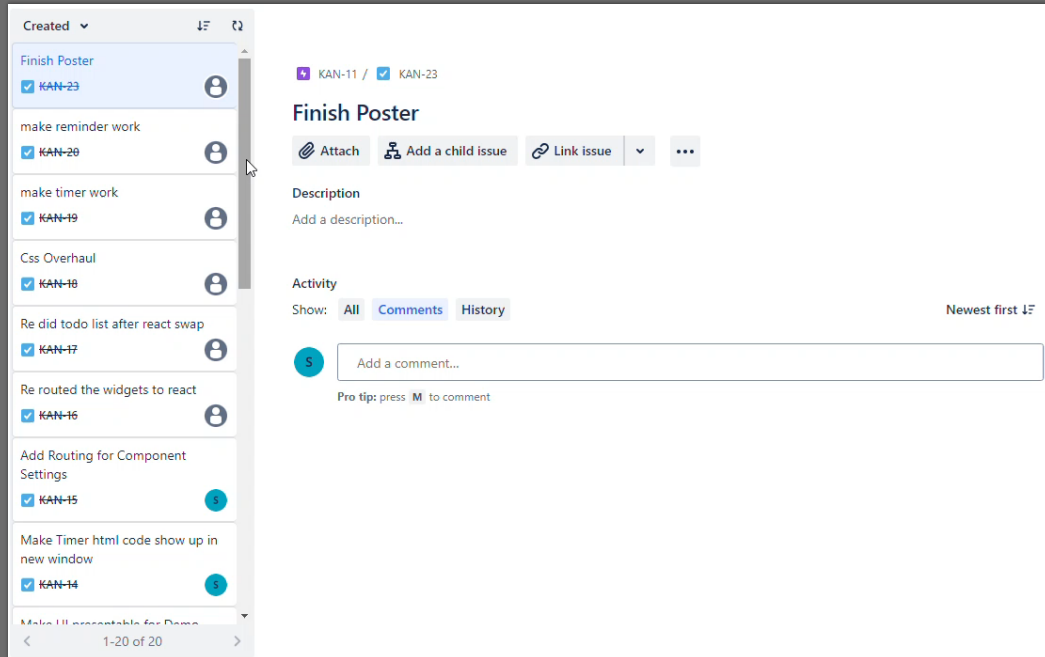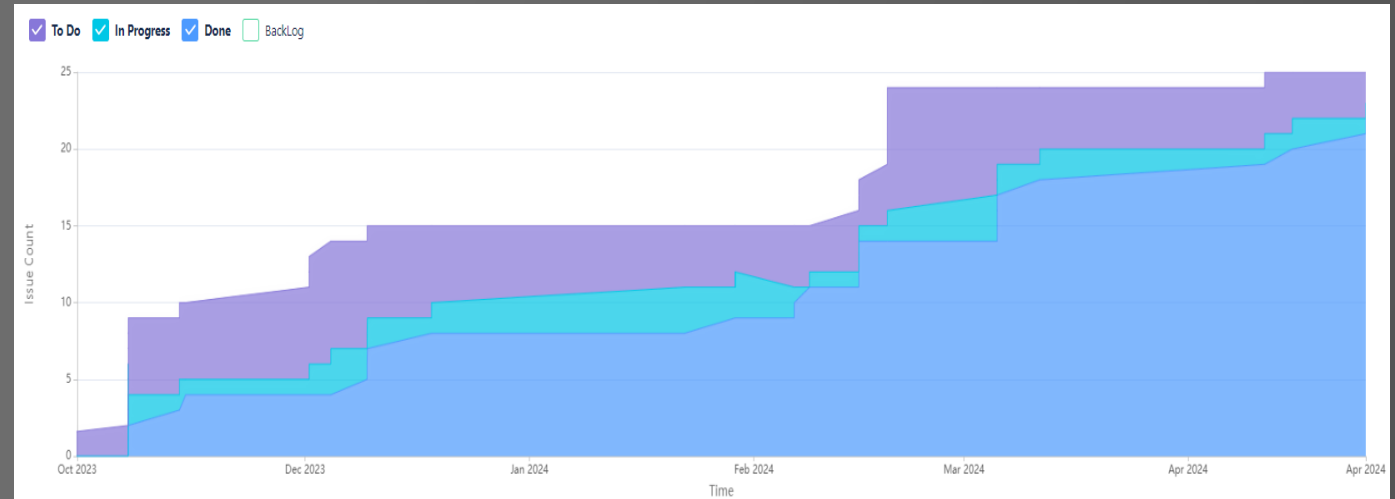
Issues Dealt with

Progress of Tasks

The Widgets

Timer

▶ The timer is used for short sprint study sessions

▶ You can set the timer for an hour at a time.

▶ It will display as a countdown timer and alert when time is up.

To-Do

▶ Allows you to set tasks you want to complete while studying

▶ You can check them off once you are done

Reminder

▶ Will remind you every so often to get up and eat/drink/take a walk.

▶ This lets you step away from the screen and not get over focused on work and eventually burn out.

Thank you For Listening

Now on to the Demo