Project Title: Life Logger
- Statistical Enhancement for Apple Calendar

Project Idea:

For the final project, I've drawn inspiration from my daily experiences and personal needs. This iOS application is designed to expand the functionalities of the standard Apple Calendar, focusing on delivering comprehensive statistical insights into calendar activities. The objective is to provide a user-friendly platform for effective tracking and analysis of calendar entries, combining simplicity with mathematical precision. I aim to publish it on the Apple Store, making it accessible for myself and my friends!

Key Features for now:

1. **Tag-Based Time Analysis:**

   Allows users to link to their apple calendar and analyze statistics using customized tags such as "Sleep", "Work", "Leetcode", and "Study" (inherited from Apple calendar tag). The app can calculate and displaying metrics like the "average daily sleep time this week", or "total time spent on activities tagged as "Leetcode" monthly".

2. **Sleep Pattern Analysis:**

   This function focuses on monitoring and reporting the number of days a user sleeps before a specified time. It will include a unique display showing statistics like 'Days Slept Before 12 AM This Year', helping users understand their sleep habits better.

3. **Interactive Calendar Heatmap:**

   Include a heatmap feature that shows the density of specific tagged activities over days, weeks, or months. Busier days could appear in warmer colors, providing a quick overview of activity levels.
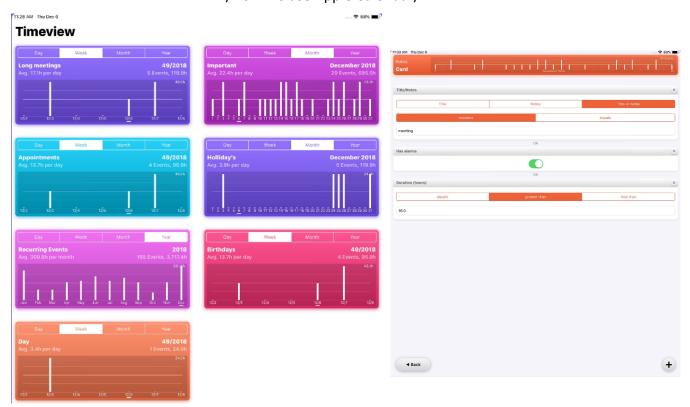
Related Exploring:

During my research, I found an individual developer's app aligns closely with my objective of offering statistical insights into calendar entries. However, I found its complexity, with intricate rules and components, turned what should be a helpful side small tool app into a burdensome one. Therefore, I think it's still a good direction for me to create something different - an intuitive, simple, streamlined app.

Visual Inspiration:

Included below are snapshots from how me and some of my friends' use of the Apple Calendar and the existing application I mentioned above for you to better understand the whole idea. My goal is to find a balance between the two while developing "Life Logger," ensuring it meets both aesthetic but simple appeal and functional excellence.

/How we use Apple Calendar/

/ Preview of the existing app I mentioned above /