Build Health Dashboard

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Project Overview

- Building a dashboard to **simplify**, **standardize**, and **report** scores for Quality Reviews with Organization Leadership.
  - Data visualization tool to quickly generate meaningful build health insights
  - Data management tool to handle score submissions, authorization and authentication
- The project is a full E2E web-application with a Light UI and a Python FastAPI backend. The application also comes with a SDK.

Tech Stack

Backend

FastAPI mongoDB pytest

Frontend

CICD Orchestration and more

Challenges and Associated Skills

Challenge #1

Prior to this internship, I had never utilized **Kubernetes**. For my project, when I had to deploy the application, I had to learn how to use the technology and write related files. This step was not only critical to the project, but was an important learning experience for me.

Challenge #2

When deciding on the specifications of the project, I wanted to use **Next.js** instead of **React.js** (more commonly used) for frontend as it more novel. However, that led to a lot of challenges as Next.js has a slightly different deployment process than a React application. This forced me to do a deep dive into the Next.js documentation, skim Reddit and StackOverflow to look for a solution. Although it took some **time** and **patience**, I was able to fix the issue while building a deeper understanding of a new technology.

Ethics and Society

Apple's policies on ethics and society deeply align with those at UC San Diego.
By putting the customer first, Apple uses their technologies to not only connect people from all across the world, but also make technology accessible to all

Personal and Professional Growth

- Through my internship journey so far, I have learned the importance of constructive **collaboration and communication**. In fact, I learned that sometimes it is essential to ask for help, as one can make matters worse by working alone.
- I learned the importance of **asking a lot of questions** (especially to my iBuddy) as that is a gateway to immense knowledge.
- Finally, I got accustomed to the "big tech culture". I understood the complexity and depth of processes, all the security measures in place, and the real-world application of **Agile** Scrum

Relevance to Coursework at UC San Diego

Software Engineering (CSE 110): Used concepts from software engineering, Agile, good practices and deign patterns

Introduction to Design (DSGN 1): Usedconcepts for designing a User-centric application with intuitive workflows