Swift/Python Database Entry Framework

Alex Wagner
University of Minnesota

August 31, 2022

Problem

We currently have an application for the Apple iPad that allows entry into the hardware database, and it works quite well.

However, like most software projects, "software entropy" has crept in and made it difficult to maintain and enhance the app.
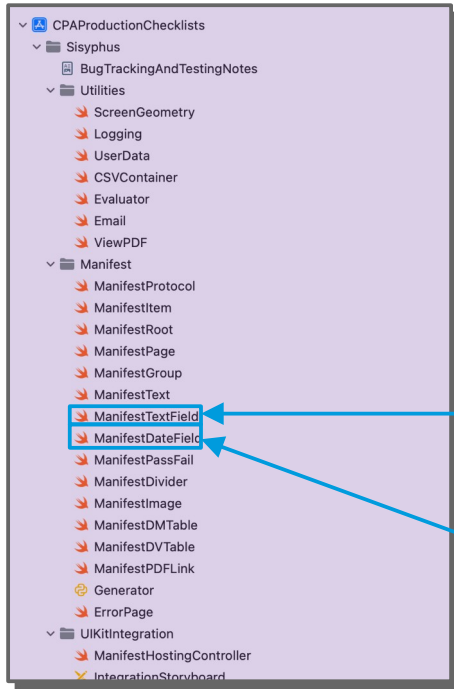
Additionally, there are many potential users who would prefer not to use Apple and would like a different way to enter data.
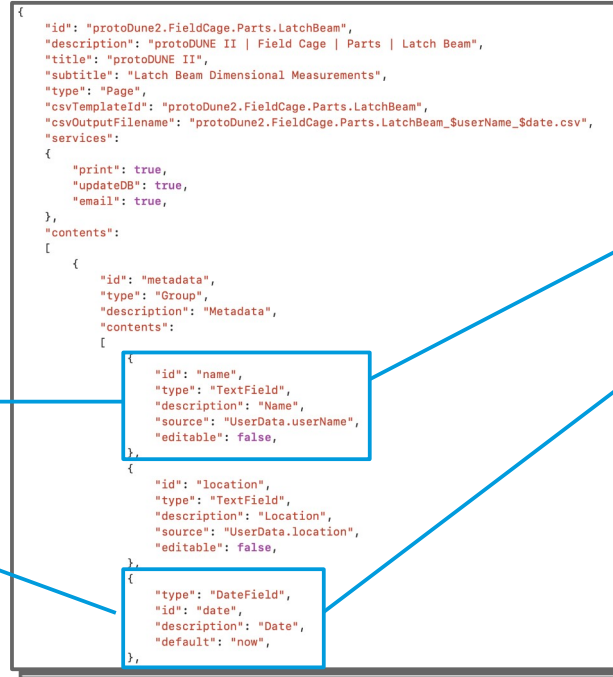
Solution

- Develop a lightweight framework for the iPad app that implements the most commonly used functionality.

- Construct views in the iPad app with (relatively) simple json code that defines what functionality is needed.

- Develop a similar framework in Python using QT for the user interface.
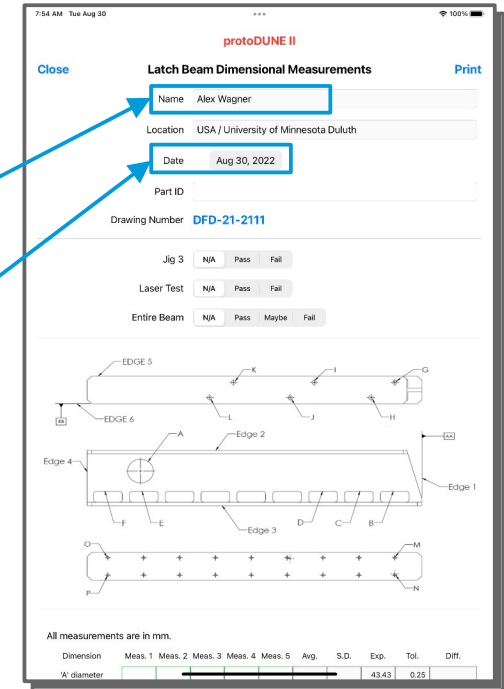
iPad App Framework

Python Framework

- Similar in structure to iPad app

- Has the advantages inherent to Python, e.g., easier to deploy, platform independence, etc.

- Screenshots available soon (I hope!)

Thank you for your time and attention!

Questions? Comments?