Alpha Presentation
SmartSat Satellite App Store

The Capstone Experience

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Project Overview

• Upload a new application to the App Store through the new upload form
• Send application and unit tests to the ZCU102 board
• Run unit tests on board
• Send test results back
• View test results
System Architecture

Frontend
- React

Backend
- Flask

Database
- PostgreSQL

SmartSat™ App Store

Continuous Integration
- Source Code Builds
- Access SDKs for build
- Upload application

Artifact Repository
- SDKs
- Testbed
- Applications

Upload/access applications, SDKs, testbeds

Service requests
Query and storage
System Architecture
Application Upload Form
Testbed Upload Form
Running File Servers
Completed Test Result Logs
What’s left to do?

• Display the test logs under each application in the frontend
• Configure SDKs and testbeds for Vxworks
• In series, run the tests on the three different boards and have all of them return the test logs
Questions?