MICHIGAN STATE UNIVERSITY **Alpha Presentation** SmartSat Satellite App Store **The Capstone Experience** Team Lockheed Martin Space **Colin Williams** Valentino Dore Aidan Delfuoco Will Teasley Matt Heilman Department of Computer Science and Engineering

Department of Computer Science and Engineering Michigan State University

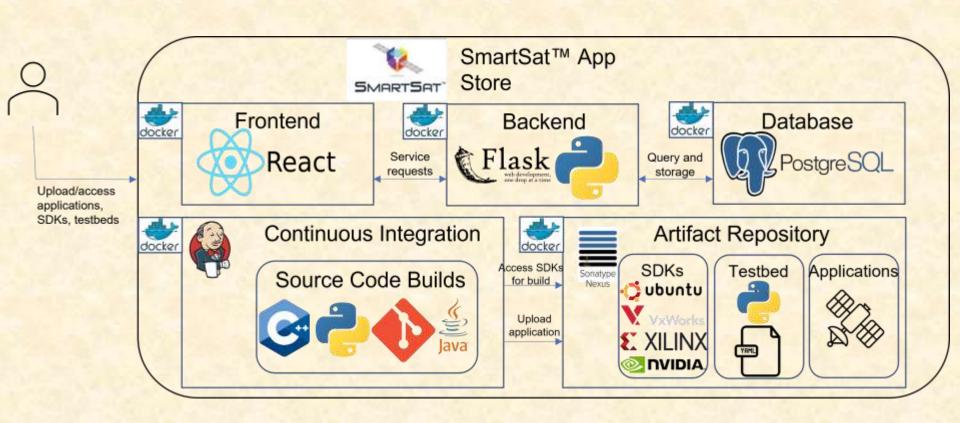
Fall 2021

From Students... ...to Professionals

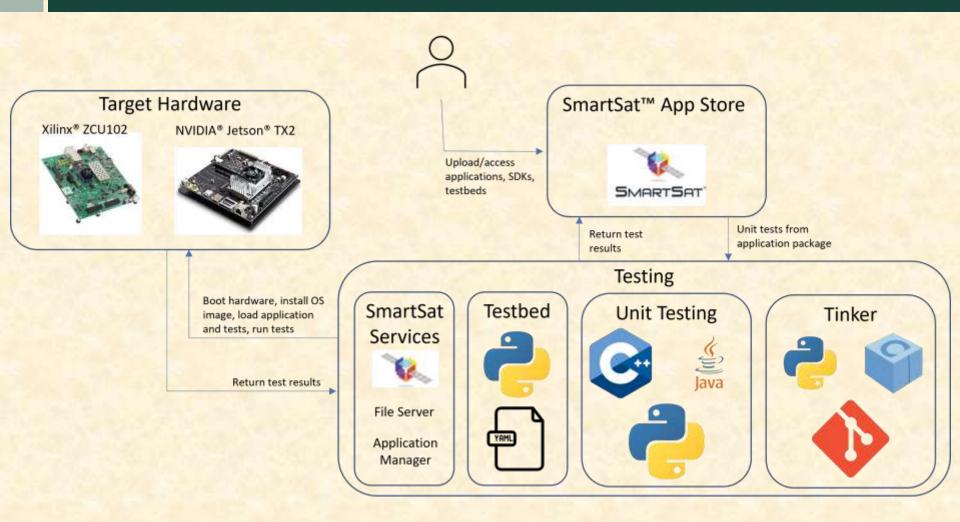
Project Overview

- 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



System Architecture



Application Upload Form

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Running File Servers

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ut.	Ltoproundhagt(lent.i.d tcoproundhagtch/actor btgsnartsat:-/sdk/examp	0-80.4-tisus.tar.gz y.10.0-x10.64-tisus.tar.g Les/filesystam/packagese Leserver: Wrote 4090 byte LeServer: Incening transf LeServer: Removing receiv	a dt offwet 193210 K0 flde at offset 193210 K0 flde at offset 397312 to flde at offset 401480 K0 flde at offset 401480 K0 flde at offset 401600 to flde at offset 413792 to flde at offset 41392 to flde	ransaction 7410705780780784085 ransaction 741017057667834085 ransaction 741017057667834085 ransaction 741017057667834085 ransaction 741017057667834085 ransaction 741017057667834085 ransaction 74107057667834085 ransaction 74107057667834085 ransaction 74107057667834085 ransaction 74107057667834085 ransaction 74107057667834085 ransaction 741077857867834085 for transaction 741077857867834085

The Capstone Experience

Team Lockheed Martin Space Alpha Presentation

Completed Test Result Logs

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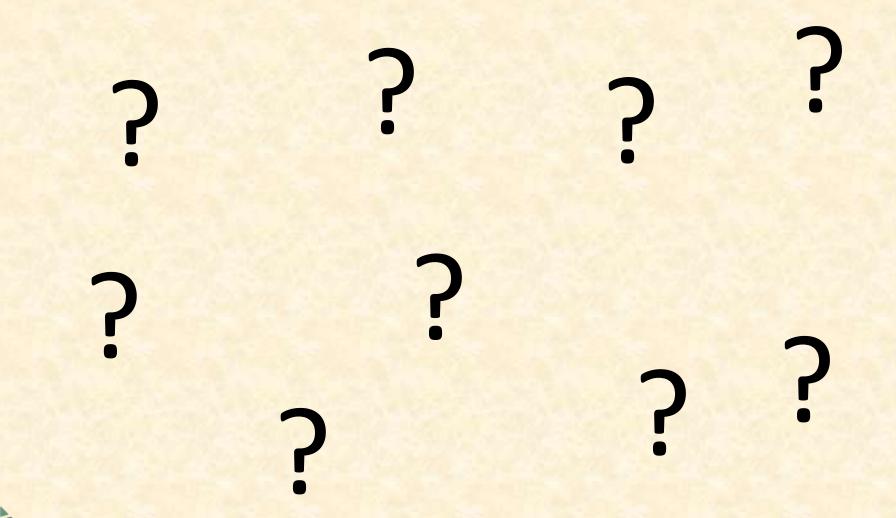
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What's left to do?

- 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?



Team Lockheed Martin Space Alpha Presentation