

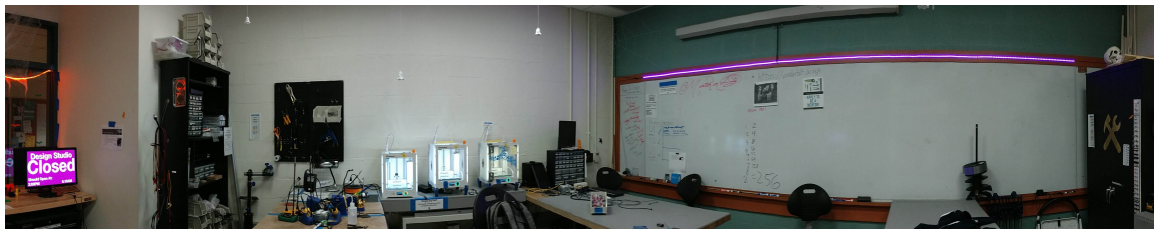
Design Studio: Your Print is Ready

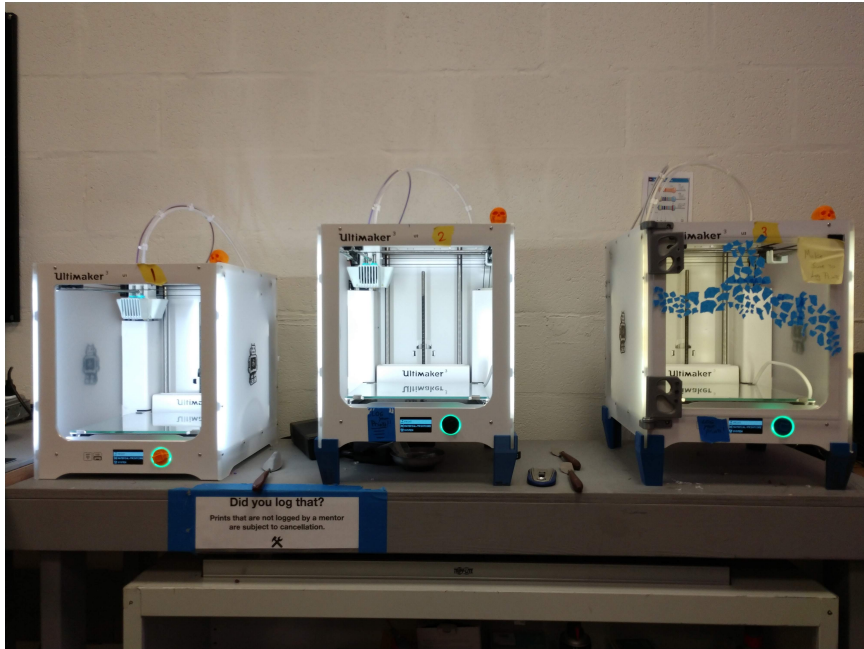
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CS 5278 Assignment 5 Part 3

Problem Background









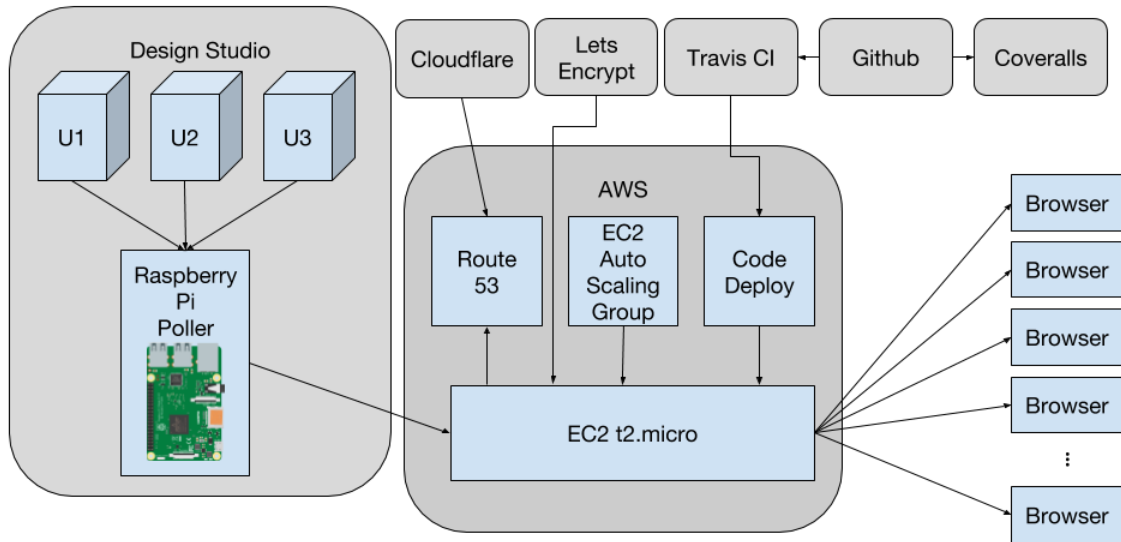


- Problem: Have to be physically present in the Design Studio to know the status of the printers
- Solution: Make the status available to users remotely
 - General status (printing, idle, broken, in maintenance, offline, etc.)
 - Individual job status

Solution

- Initially a Clojure-based texting application
 - Text a number to ask whether the printers were available
 - Subscribe to get status updates for a print job
- Interviews changed the requirements of the solution
 - One-stop source for information needed
 - Robust and resilient for years to come
 - Individual job tracking is more complicated than anticipated
- Became a python-based, multi-system architecture
 - Limited scope: only *generic* printer status
 - Show it on the Design Studio Website

Architecture



What's Next

- Unify architecture with the Open/Closed sign
- Integration testing
- Automatic deployment to Raspberry Pi
- Interface with Cloudflare API directly