ONLY FACTORIES

Keller Lawson

Justin Harris

Parker Weisel

Who are we?

What is OnlyFactories?

OnlyFactories
Web App

↕

Amazon Web
Services
(AWS)

↕

Factory API

↕

Mini Factory

OnlyFactories Webpage
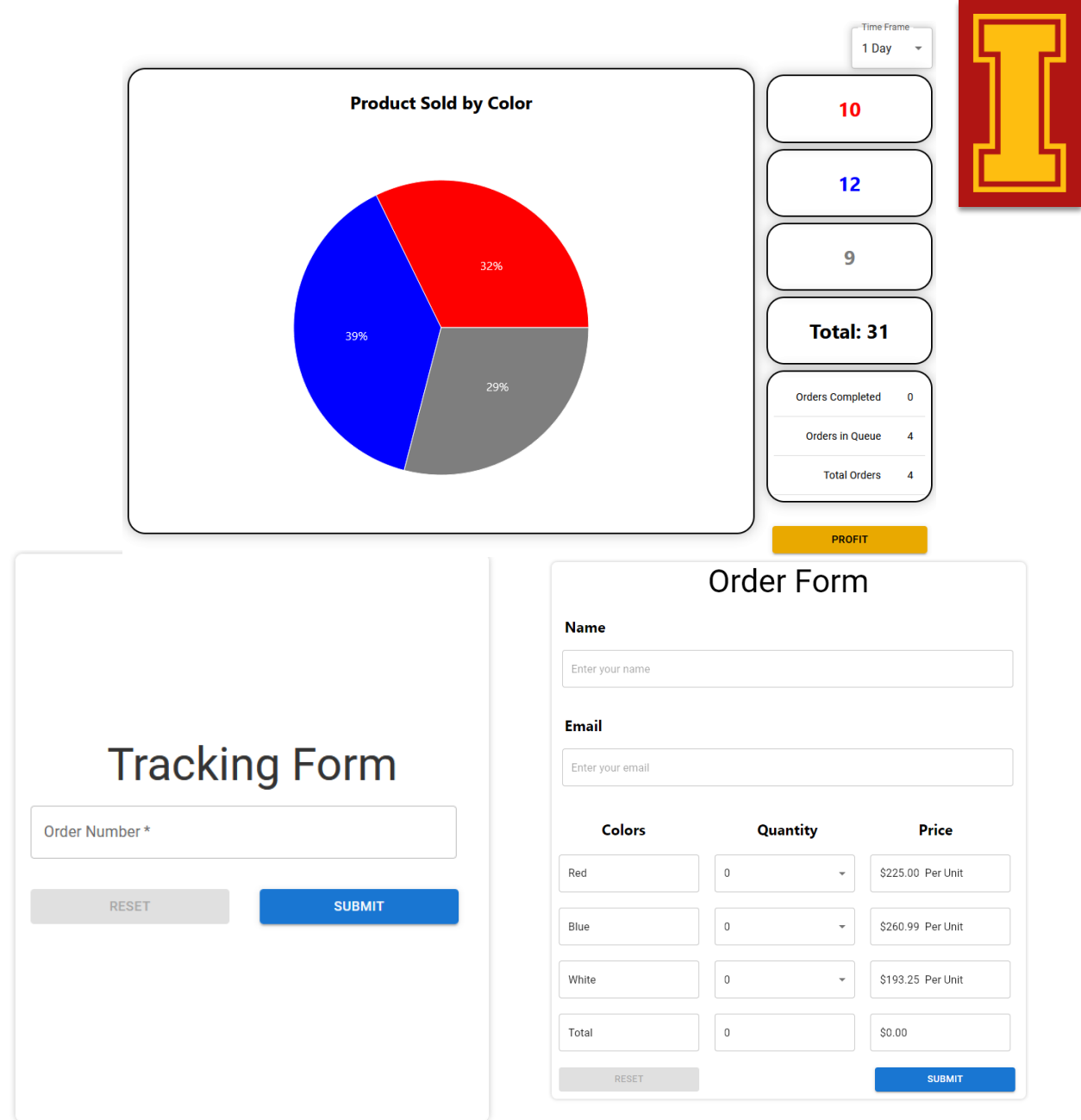
Factory Orchestrator

▶ Worked closely with Liaisons to develop a communication channel.

  ▶ Middleware API:

    ▶ Processes orders to the factory

    ▶ Provides status updates to the Web App
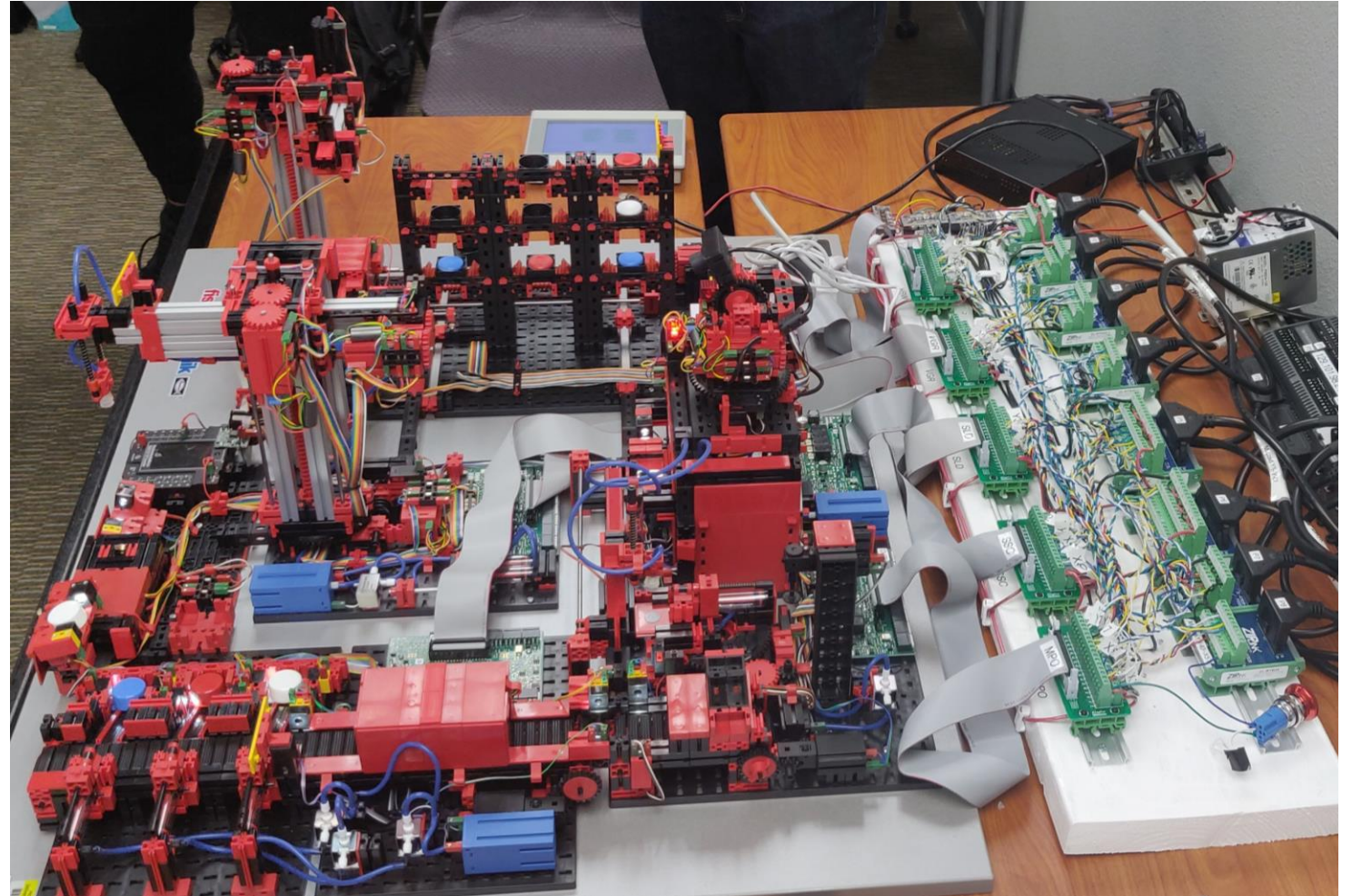
Mini Factory

OnlyFactories Features

Create orders

Live Order Tracking

Monitor order data

Customer Requirements

Hosted 100% in the cloud

Modern Web Framework

Live Order Tracking

Demo Video

Conceptual Development

Sep. 14, 2021

Initial Design and proposal

Mar. 1, 2022

Live Demo

Mar. 24, 2022

Final Development Update

Major Update I

Dec. 2, 2021

Major Update II

Mar. 12, 2022

Development Issues

LOCKED OUT OF FIRST EC2 VIRTUAL MACHINE.
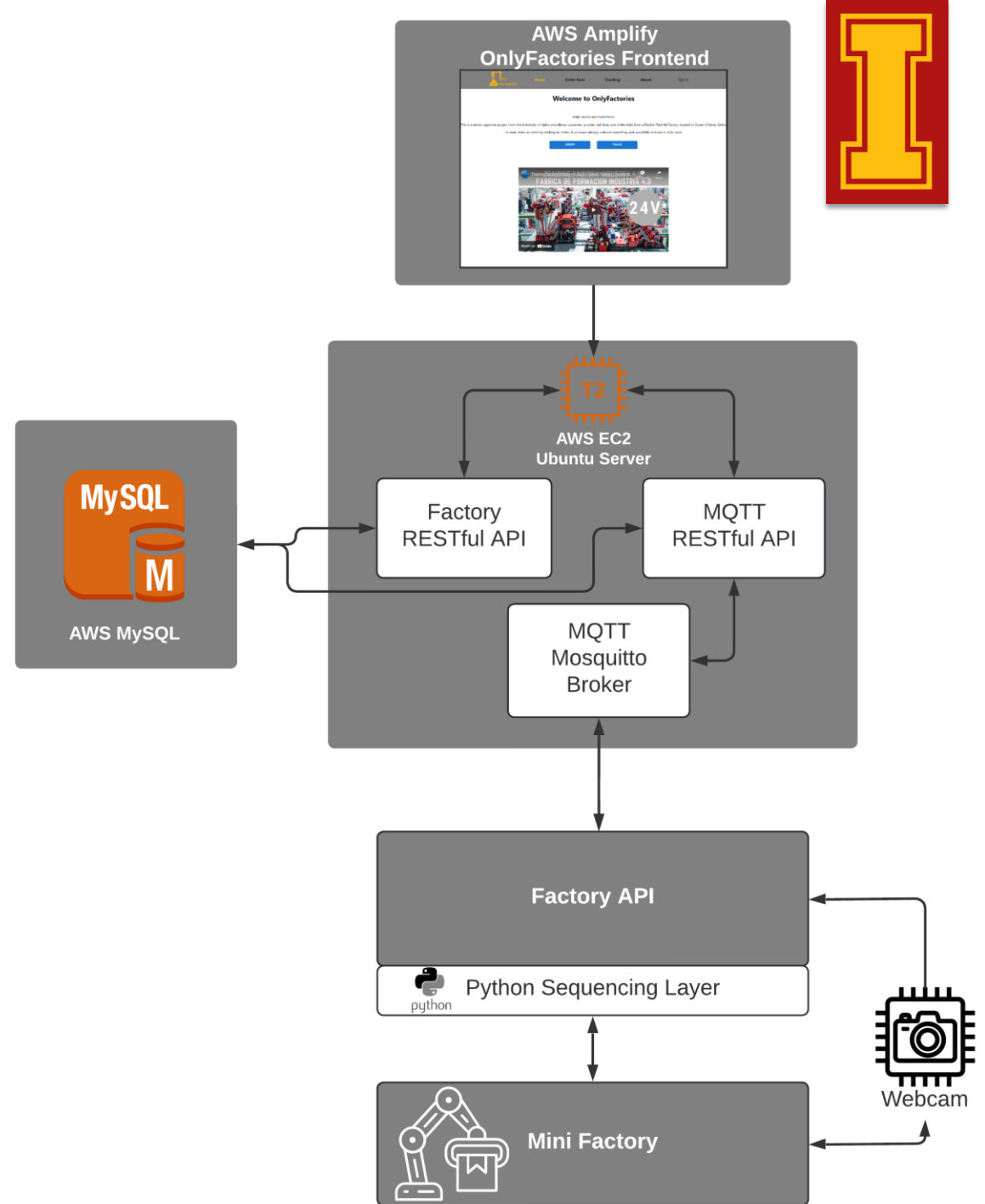
API REQUESTS ONLY WORKED ON MICROSOFT EDGE BROWSER.
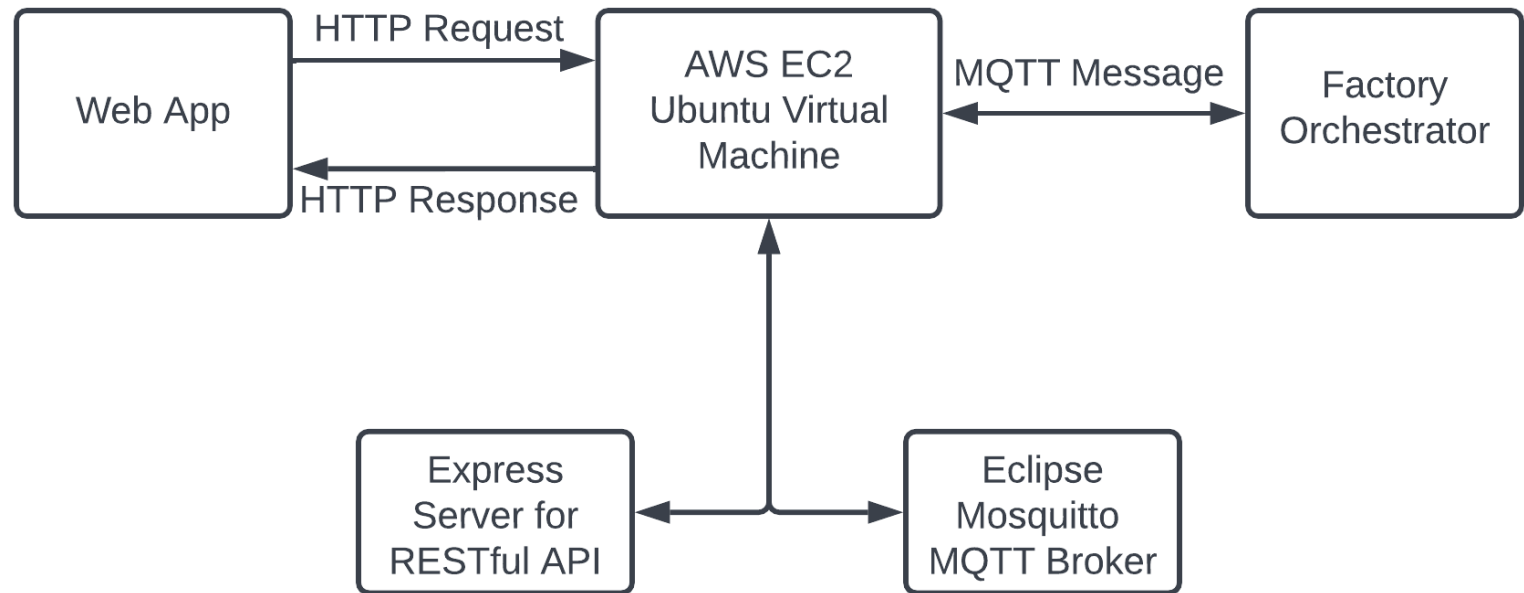
SWITCHED DATABASE FROM DYNAMODB TO MYSQL.

SERVER CERTIFICATE DID NOT VALIDATE.

Final Design

Server Communication

Total Available Market

- 2019 – Estimated 10 million factories worldwide

- 2022 – Over 638,000 manufacturing businesses in the US

- Significant potential market for OnlyFactories and Factory 4.0 architecture

- 3 channels of revenue

  - Software licensing

  - Customization

  - Recurring support

Future Development

- Mobile App
- Mobile Web View
- Browser compatibility
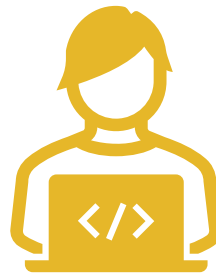- Aesthetics (graphics, dark mode, etc.)
- Support Additional Factories

OnlyFactories Successes

Satisfied all client requirements

Codebase designed around expandability

Constructed live webcam feed

Conclusion

- Completely control a factory from the cloud
- Developed an app that could form a business
- Website available at OnlyFactoriesCDA.com

Questions?