

MICHIGAN STATE

UNIVERSITY

Beta Presentation

Recovery of Lost and Stolen IT Assets

The Capstone Experience

Team GM

Auden Garrard
Seth Youngstrom
Jemin Han
Joel Marshall
Hunter Jones

Department of Computer Science and Engineering
Michigan State University

Spring 2024



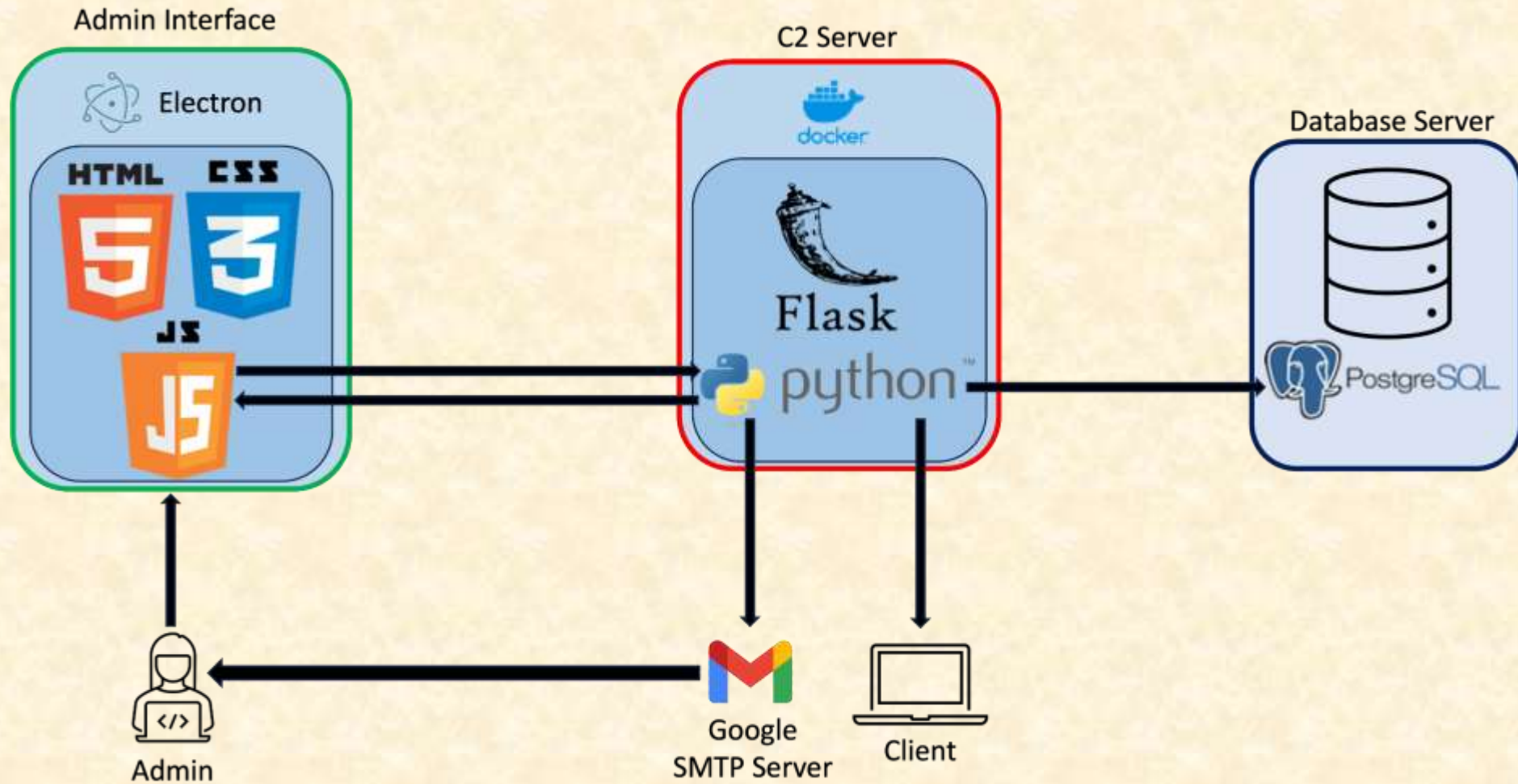
*From Students...
...to Professionals*

Project Overview

- Multinational corporation with over 165,000 employees
- Streamlines and automates the process of lost computer lockdown
- Multiple lockdown requests, scheduled lockdown, automated emails and device status
- Utilizes Electron framework, Flask framework, PostgreSQL and a Windows Service Application



System Architecture



User Dashboard

General Motors John Perry

Search Device

Employee ID:

First Name:

Last Name:

Results

Name	ID	Status
John Perry	129	Pending
John Smith	126	Lock



Admin Dashboard

General Motors Admin Dashboard Emily Jones

Device Search

Employee ID:

First Name:

Last Name:

Country:

Lock Type:

Lock Pop-up:

Re-enter Password:

Results

ID	Name	Hostname	Device OS	Status	
<input type="checkbox"/>	10001	Eric Good	utilhwaguest10001	Ubuntu	Pending
<input type="checkbox"/>	10002	Scott Jones	utilwindowsjones10002	Windows 10	Normal
<input checked="" type="checkbox"/>	126	John Smith	usmarketingwindowsmith126	Windows 10	Normal
<input checked="" type="checkbox"/>	128	Emily Jones	usmarketingmacjones128	MacOS Sonoma	Normal
<input type="checkbox"/>	129	John Perry	usmaccsperry129	Windows 10	Pending
<input type="checkbox"/>	133	Alan Vazquez	usegrmacvazquez133	MacOS Sonoma	Normal
<input checked="" type="checkbox"/>	127	Jane Doe	usegrwindowdoe127	Windows 10	Normal
<input checked="" type="checkbox"/>	134	Oscar Ramos	ushrmacramos134	MacOS Sonoma	Normal
<input type="checkbox"/>	899	Luke Sperling	usegrwindowssperling899	Windows 10	Normal
<input type="checkbox"/>	630	Joel Marshall	usegrwindowsmarshall630	Windows 10	Normal
<input type="checkbox"/>	7	Perry Platypus	ussecwindowssplatypus007	Windows 10	Normal
<input type="checkbox"/>	33	Auden Gurrard	usegrmacgurrard33	MacOS Sonoma	Normal
<input type="checkbox"/>	67	Hunter Jones	usegrwindowssjones67	Windows 10	Normal
<input type="checkbox"/>	56	Seth Youngstrom	usegrwindowssyoungstrom56	Windows 10	Normal



Queue Dashboard

	Hostname	Set Status	Active Status	Set Time	Submitted By
<input checked="" type="checkbox"/>	swtzlegalwindowskamiya142	Lock	Normal	Mon, 25 Mar 2024 23:59:07 GMT	Emily Jones
<input type="checkbox"/>	usitwindowsjones10002	Lock	Normal	Tue, 26 Mar 2024 15:27:34 GMT	Emily Jones
<input checked="" type="checkbox"/>	usmarketingwindowssmith126	Lock	Normal	Tue, 26 Mar 2024 15:27:35 GMT	Emily Jones
<input checked="" type="checkbox"/>	usmarketingmacjones128	Lock	Normal	Tue, 26 Mar 2024 15:27:35 GMT	Emily Jones
<input type="checkbox"/>	usegrmacvazquez133	Lock	Normal	Tue, 26 Mar 2024 15:27:35 GMT	Emily Jones
<input checked="" type="checkbox"/>	usegrwindowsdoe127	Lock	Normal	Tue, 26 Mar 2024 15:27:36 GMT	Emily Jones
<input type="checkbox"/>	ushrmacramos134	Lock	Normal	Tue, 26 Mar 2024 15:27:36 GMT	Emily Jones

Confirm

Deny

Select All Download CSV



Email Digest Dashboard

The dashboard displays the following data:

Hostname	Set Status	Active Status	ShutDown Time
usitlinuxgrant10001	Timelock	Pending	Sat, 11 Nov 2023 00:00:00 GMT
usitwindowsjones10002	Lock	Lock	Tue, 26 Mar 2024 15:32:12 GMT
usegrwindowsdoe127	Timelock	Lock	Tue, 26 Mar 2024 00:00:00 GMT
ushamacramos134	Timelock	Lock	Mon, 14 Feb 2022 00:00:00 GMT
usegrwindowsperling899	Timelock	Pending	Mon, 14 Feb 2022 00:00:00 GMT
usegrwindowsdoe127	Timelock	Lock	Tue, 26 Mar 2024 00:00:00 GMT

Summary statistics on the left:

- Pending: 2
- Locked: 4
- Lock type: None
- Host Name: US

Buttons: Search, Rest, Refresh Digest, Download CSV



What's left to do?

- Features
- Stretch Goals
 - Kubernetes
 - Bash Scripting
 - Microservice
- Other Tasks
 - Secrets
 - Logging
 - Expand CSV Import
 - General Bug Fixes



Questions?

?

?

?

?

?

?

?

?

?

