

MICHIGAN STATE
UNIVERSITY

Beta Presentation

**Greenfields Labs SHARED Locker
System**

The Capstone Experience

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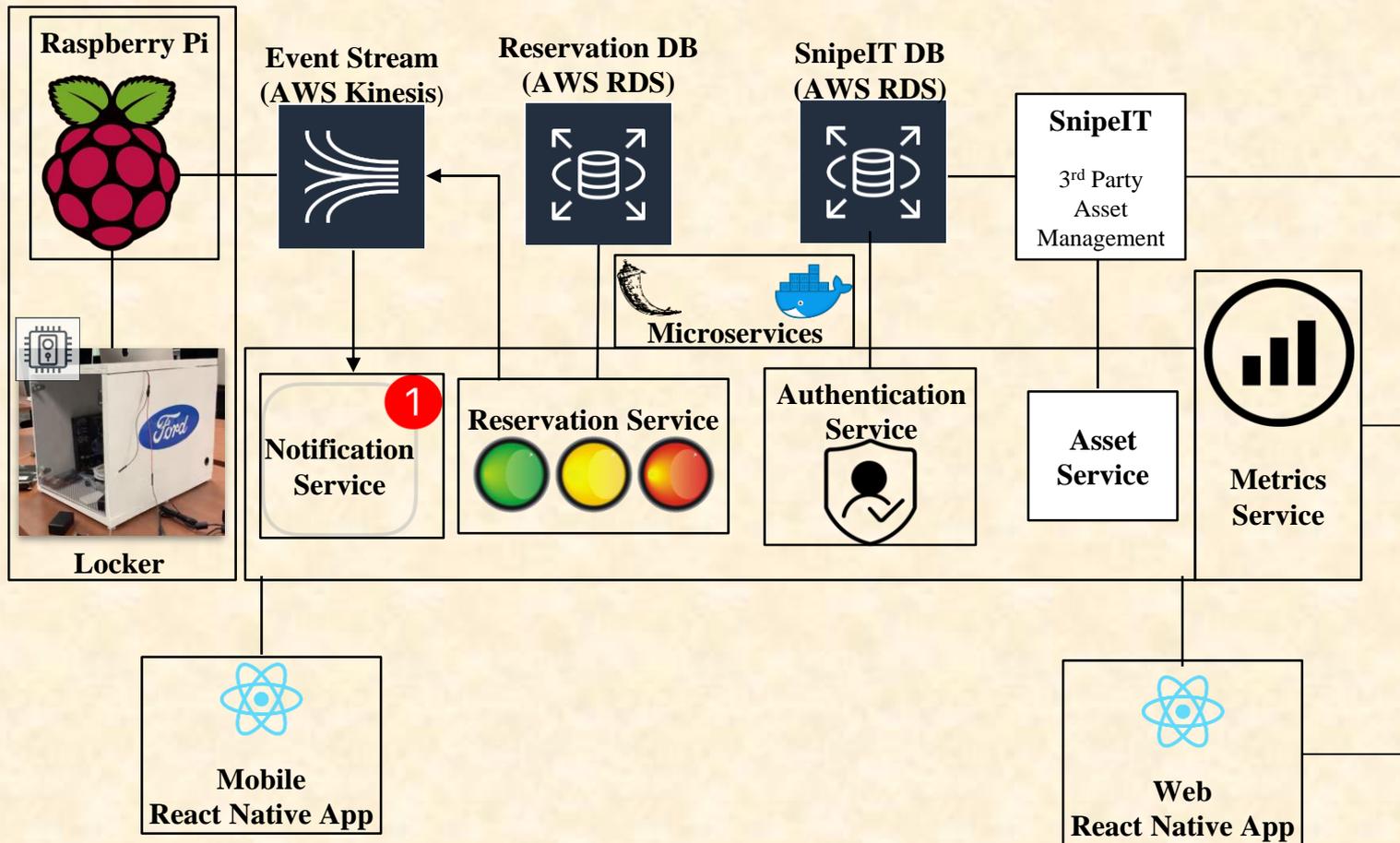
*From Students...
...to Professionals*

Project Overview

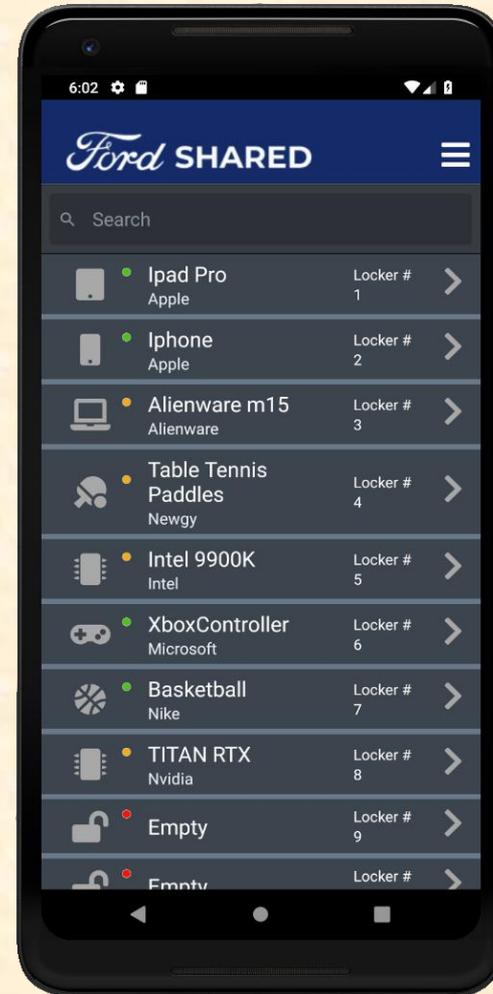
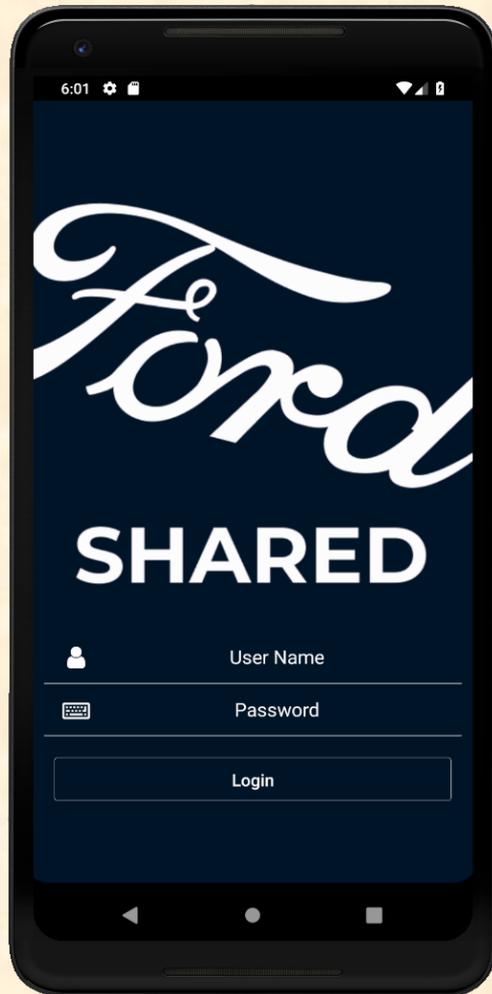
- Cross platform app Android/iOS/Web
- Check-in/check-out locker items
- RGB led status indicator
- Automated locker unlock
- Showcase items in locker
- Support for multiple lockers
- Admin metrics



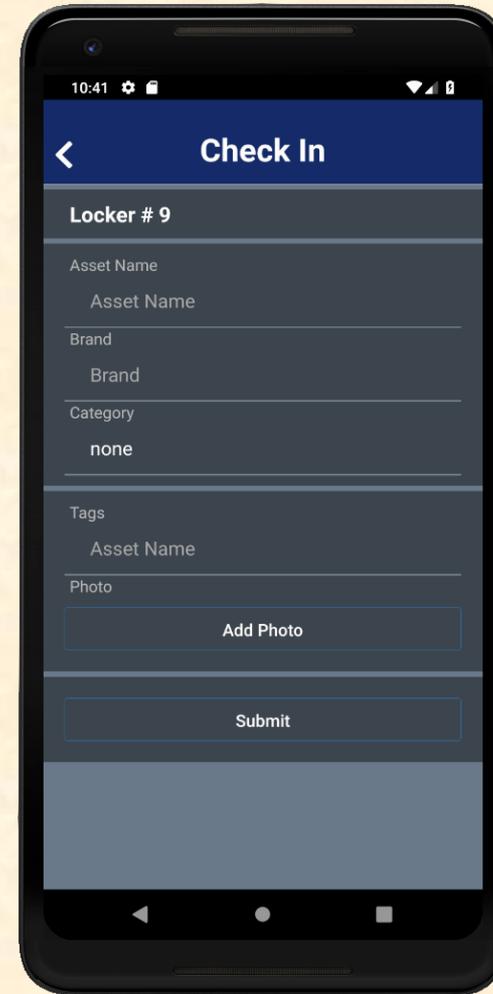
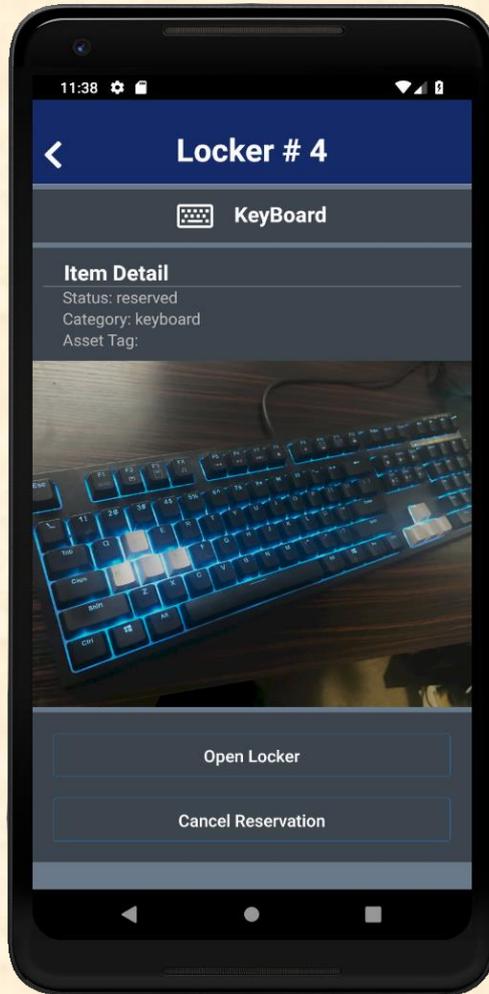
System Architecture



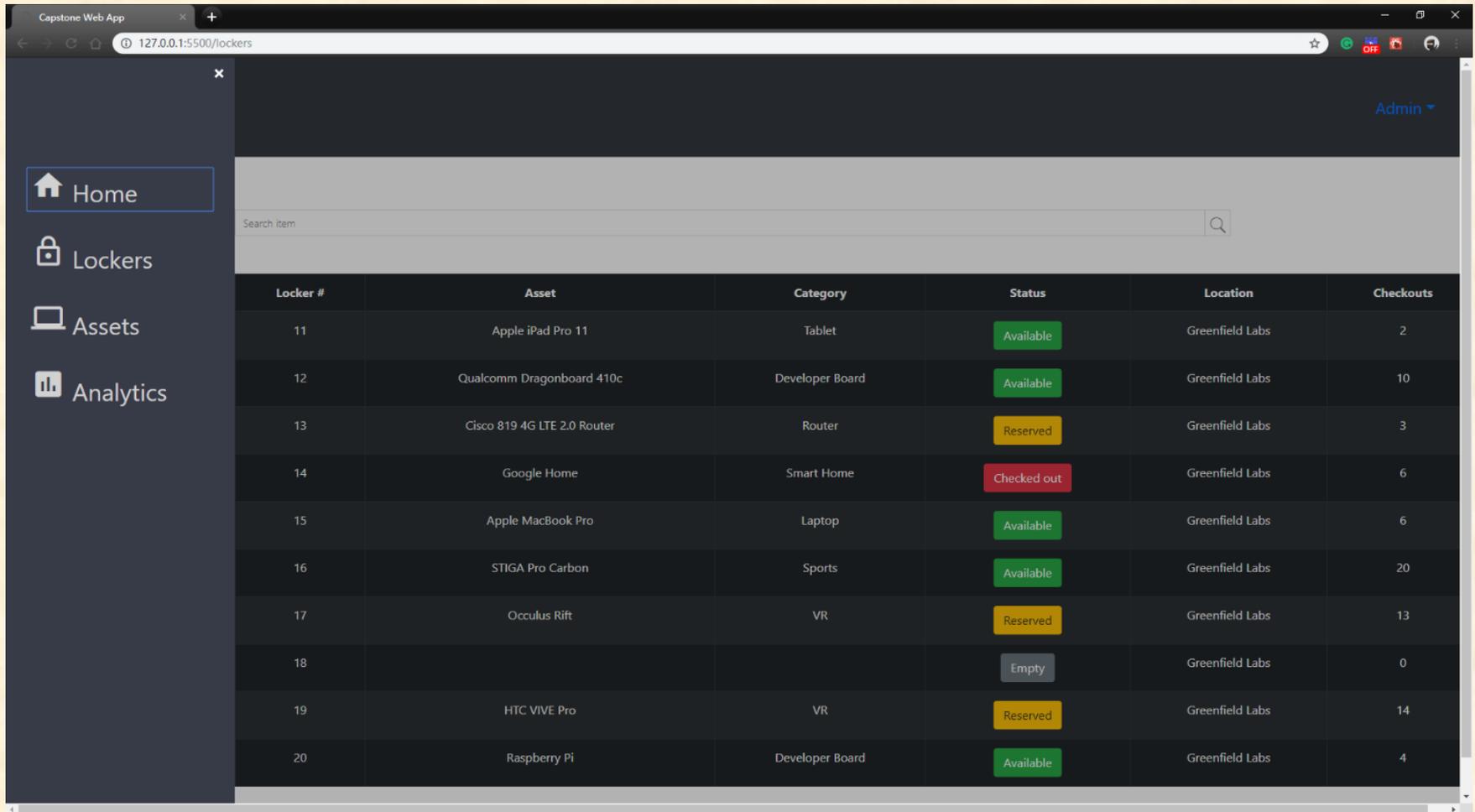
Mobile App Login and Menu



Mobile App Locker Info Page



Web App Basic Dashboard



The screenshot displays a web application dashboard for 'Capstone Web App' at the URL '127.0.0.1:5500/lockers'. The interface includes a dark sidebar with navigation options: Home, Lockers, Assets, and Analytics. The main content area features a search bar and a table of assets. The table has the following columns: Locker #, Asset, Category, Status, Location, and Checkouts. The status column uses colored buttons to indicate the asset's availability: green for 'Available', yellow for 'Reserved', and red for 'Checked out'. The location for all assets is 'Greenfield Labs'.

Locker #	Asset	Category	Status	Location	Checkouts
11	Apple iPad Pro 11	Tablet	Available	Greenfield Labs	2
12	Qualcomm Dragonboard 410c	Developer Board	Available	Greenfield Labs	10
13	Cisco 819 4G LTE 2.0 Router	Router	Reserved	Greenfield Labs	3
14	Google Home	Smart Home	Checked out	Greenfield Labs	6
15	Apple MacBook Pro	Laptop	Available	Greenfield Labs	6
16	STIGA Pro Carbon	Sports	Available	Greenfield Labs	20
17	Oculus Rift	VR	Reserved	Greenfield Labs	13
18			Empty	Greenfield Labs	0
19	HTC VIVE Pro	VR	Reserved	Greenfield Labs	14
20	Raspberry Pi	Developer Board	Available	Greenfield Labs	4



Web App Lockers Functionalities

The screenshot shows a web browser window with the URL 127.0.0.1:5500/lockers. The page header features the 'Ford SHARED' logo and an 'Admin' dropdown menu. A search bar is located below the header. The main content is a table with the following columns: Locker #, Asset, Category, Status, Locker info, and Checkouts. The table lists 20 lockers with various assets and their current statuses. A tooltip is visible over the 'Locker info' column for the first row.

Locker #	Asset	Category	Status	Locker info	Checkouts
11	Apple iPad Pro 11	Tablet	Available	This is the locker page Your asset image is going to show here Unlock Reserve	2
12	Qualcomm Dragonboard 410c	Developer Board	Available		10
13	Cisco 819 4G LTE 2.0 Router	Router	Reserved	Greenfield Labs	3
14	Google Home	Smart Home	Checked out	Greenfield Labs	6
15	Apple MacBook Pro	Laptop	Available	Greenfield Labs	6
16	STIGA Pro Carbon	Sports	Available	Greenfield Labs	20
17	Oculus Rift	VR	Reserved	Greenfield Labs	13
18			Empty	Greenfield Labs	0
19	HTC VIVE Pro	VR	Reserved	Greenfield Labs	14
20	Raspberry Pi	Developer Board	Available	Greenfield Labs	4



What's left to do?

- Metrics Service
- UI Improvements



Questions?

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