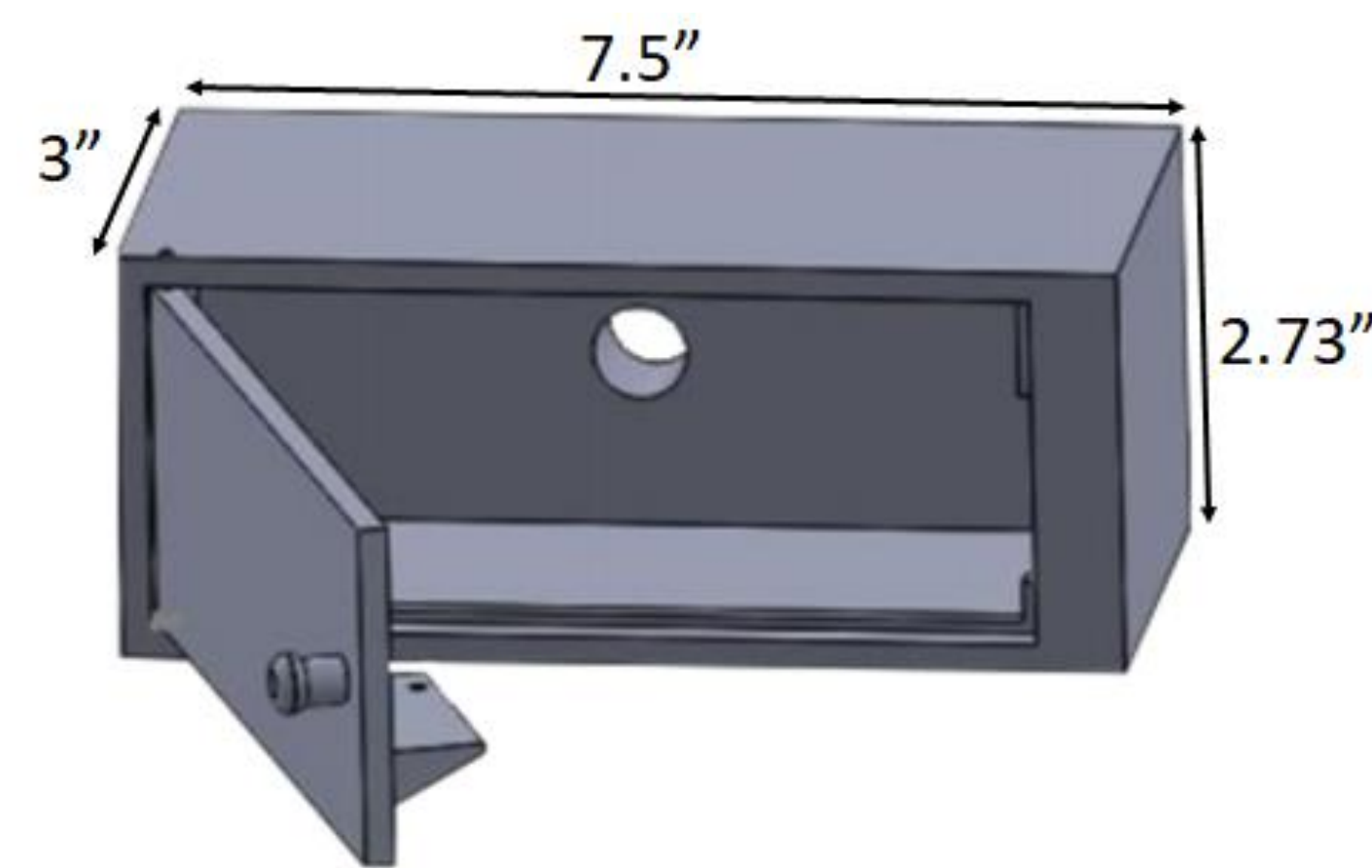


Purpose of the Project

Develop a solar powered kiosk that provides a secure place to charge phones and Wi-Fi for it's customers.

Past Work

- Tentative BoM for kiosk
- Payment system



Secure charging locker

Semester Objectives & Requirements

Deliverables

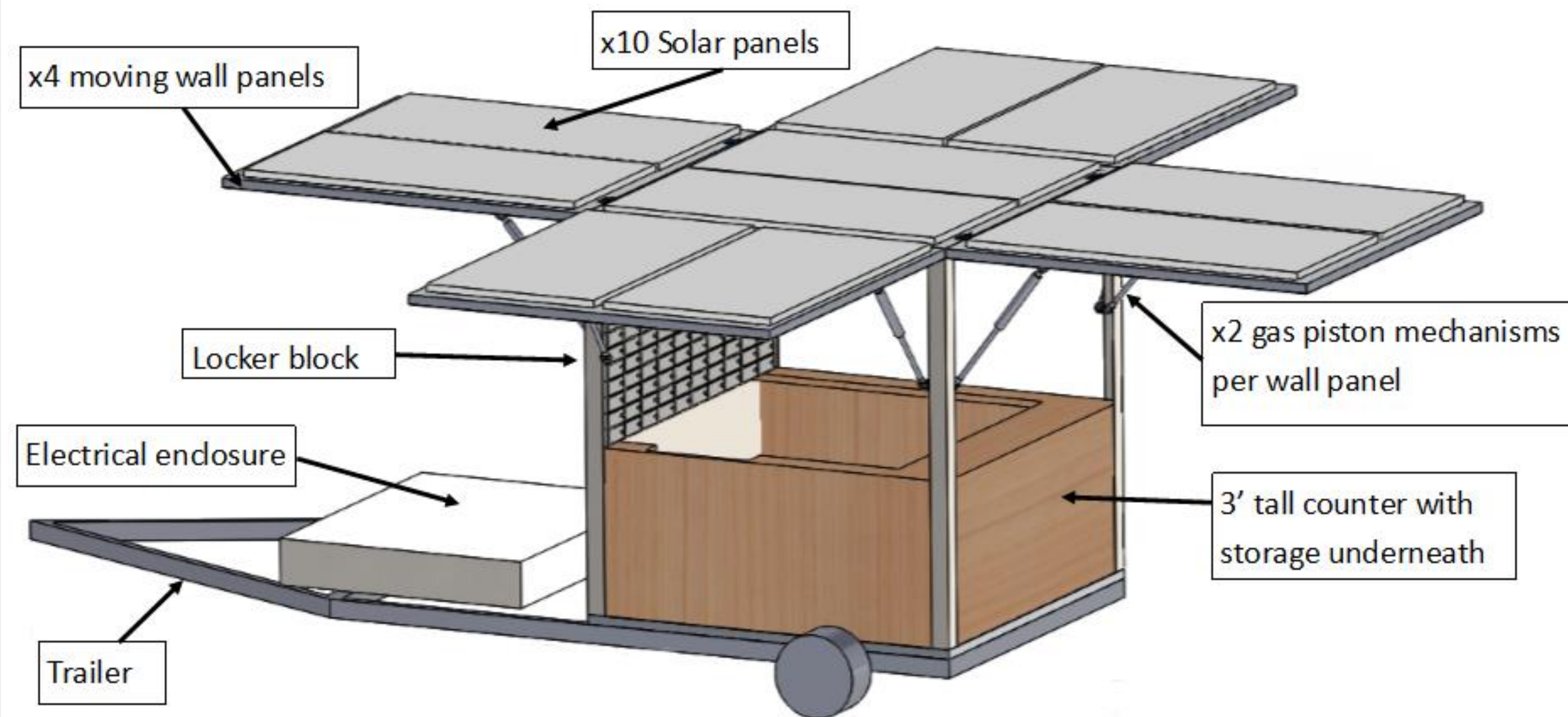
- Proposed bill of materials
- Proposed solar kiosk design
- Proposed power management plan
- Hub Management System (HMS) demo

MVP (Minimal Viable Product) Features

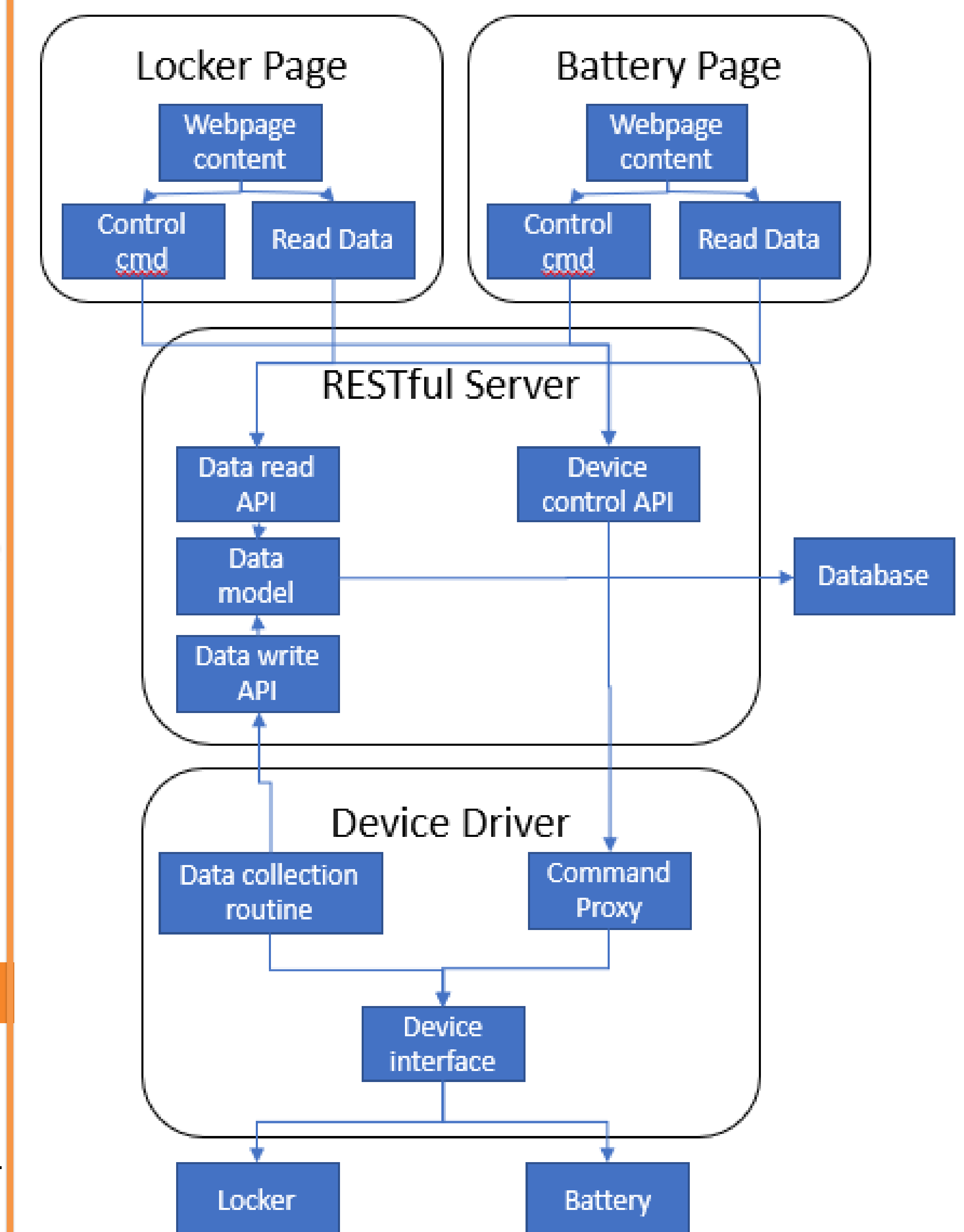
- Solar powered
- Wi-Fi router
- Charges many phones at once
- Compatible with a sandy, beach location (ideal location: Miami)

Technical Results & Accomplishments

Solar Kiosk Design



HMS Architecture



Future Work

- Design gas piston mechanism for the moving wall panel
- Integrate locker and payment system
- Finalize component selection
- Create the backend server software

Max Possible Profit (Fixed Price)

Number of lockers	120	Hours per charge	3.5
Price customer pays to charge phone	\$3.00	Revenue brought in per day	\$874.00
Revenue brought in per month			\$26,229.00
Kiosk monthly cost			\$689.00
Kiosk monthly profit			\$19,334.00

Power Generation and Usage

Power Generation	3350
Power Cost	2296
Power Available	1054