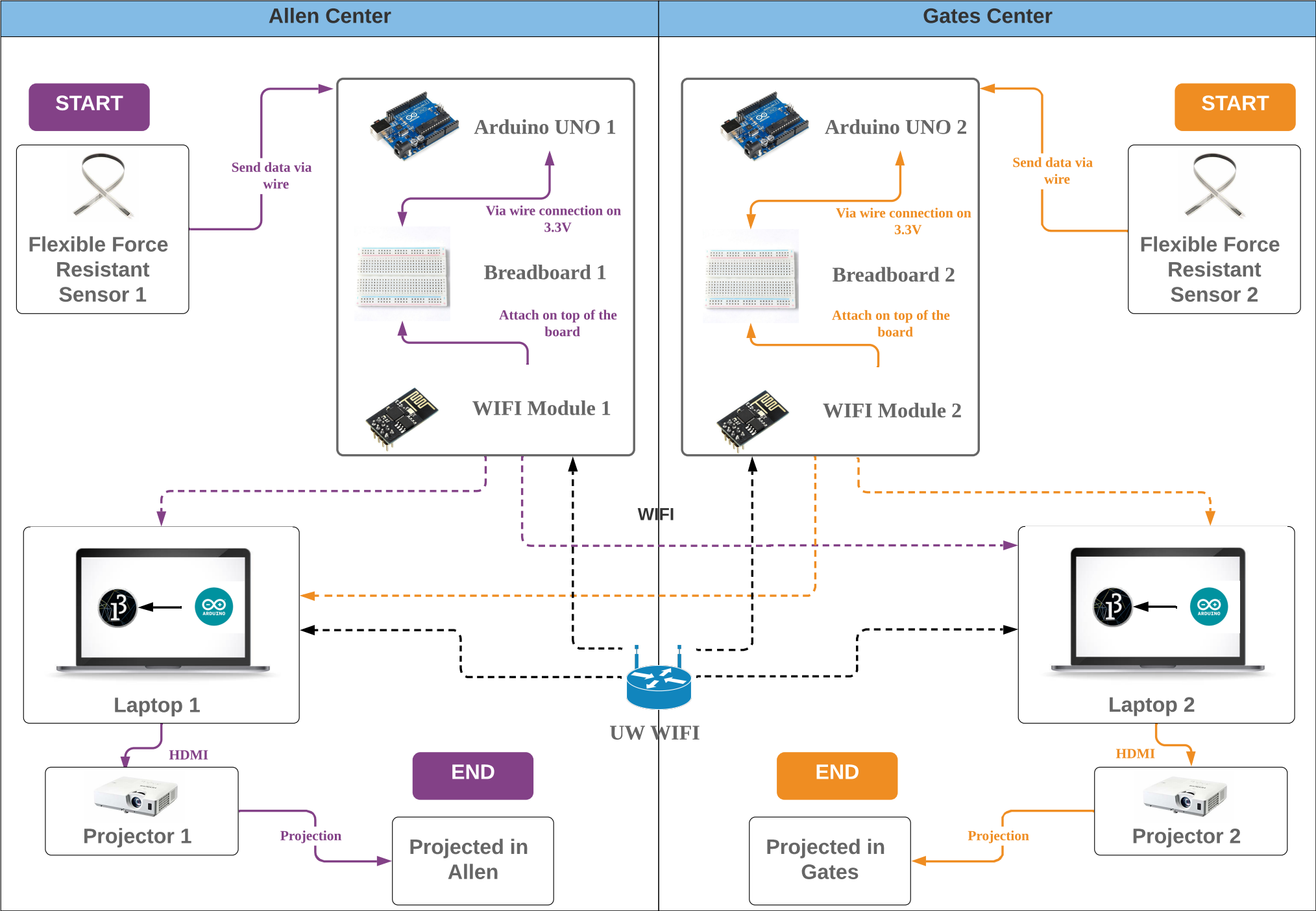
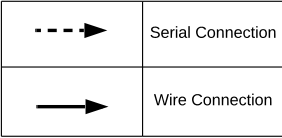


Architectural Design



- Description of the whole process**
1. In each building, we will have one flexible force resistant sensor located near the stairs for people to interact with our installation.
 2. The sensors will be connected to Arduino boards (including Arduino UNO, breadboard, and WIFI module) to send data.
 3. Each laptop will have Arduino IDE installed and each will use analogRead to read in the force resistant data from two arduino boards from two buildings.
 4. Each laptop will also have processing installed to receive data from the Arduino IDE through serial communication.
 5. Processing takes data as inputs to display real-time data visualization animation as output.
 6. Projectors will be connected with laptops via HDMI to project the animation on the stairs.

Component	Amount	Price
Flexible force resistant sensor	2	\$39.98
Arduino UNO	2	FREE
breadboard	2	\$7.98
WIFI Module(ESP8699)	2	\$7.24
Projector	2	FREE
Laptop	2	FREE
Stairs	2	FREE
Total price		\$55.2