E1.8 CLICK SENSOR HUB
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PROJECT OVERVIEW

Project Description:
- Click Sensor Hub is an IoT extension for the FRDM-KL46Z development platform.

Project Motivation:
- Enables a lost cost NXP development board to evolve into a modern IoT project kit.
- The four mikroBUS™ socket design goes beyond the current two socket capabilities of NXP clickSHIELD.

Project Design Flow:
- Hardware Design
  - PCB Connectivity with KL46Z
  - PCB Connectivity with Click
  - Software Design
  - Code for ten select Clicks.
  - Any of the four mikroBUS™ sockets have connectivity with ten selected Click.
  - Store and format Data Values.
- Simple Data Analytics
  - Access the data and perform basic calculations. (High/Low Value, Mean,...)

Next Semester Deliverables:
- Completed PCB Design
- Functionality Code for Ten add-on boards
- Error Handling/User Guide Created
- Demo Video of Rapid IoT Functionality
- (Stretch Goal) Website for Data Analytics

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TEAM MEMBERS

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