CitySentinel Application
Sequence Diagram V1.0
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User	MVC	AZ SQL Server	AZ IoT Hub	IoT Node

Click - Activate Device (User → MVC)

Send DirectMethod (MVC → AZ IoT Hub)

Send DirectMethod (AZ IoT Hub → IoT Node)

"Activating" (MVC → User)

Device Active - Data Available (MVC → User)

Validate Connection (AZ SQL Server → MVC)

Begin AZ Stream Analytics (AZ IoT Hub → AZ SQL Server)

Begin Messaging (IoT Node → AZ IoT Hub)

Click Real-Time Monitor (User → MVC)

Access IoT Hub Messages (MVC → AZ IoT Hub)

Parse and Display Message Feed (MVC → User)

Return Message Feed (AZ IoT Hub → MVC)

Click - Historic Data (User → MVC)

Query SQL Server (MVC → AZ SQL Server)

Parse, Graph, and Display (MVC → User)

Return selection (AZ SQL Server → MVC)

Click - Submit Help Ticket (User → MVC)

Activate & Display help ticket Interface (MVC → User)

Click - Deativate Device (User → MVC)

Send DirectMethod (MVC → AZ IoT Hub)

Send DirectMethod (AZ IoT Hub → IoT Node)

"Deactivating" (MVC → User)

Device Sleeping (MVC → User)

Validate Messaging Stop (AZ IoT Hub → MVC)

Stop Messaging (IoT Node → AZ IoT Hub)