Industry E-Mobility Location USA

Objective

Enhance robotic software for robotic arm control and EV charging operations with web server capabilities, enabling communication via a REST interface with other system applications.



Scope

- Understand the communication architecture
- Define JSON structure for data exchange
- Publishing the messages to other threads inside the application

Value Added

- Remote Operation Capability: Enabled real-time remote execution of robot protocols via REST APIs, facilitating development and testing from remote locations.
- Technology Agnosticism and Scalability: Delivered a language-agnostic and scalable solution, ensuring compatibility and ease of integration within diverse systems.

Solution





- Enabled modifications of robot operation parameters and provided status updates through these endpoints.
- Established a JSON-based data exchange format and utilized Linux message queues to pass commands to other threads for execution.

Frameworks & Tools







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