**Sprint Review 2**

**Project:** Raspberry Pi PLC with Dobot Arm and Camera Integration  
**Sprint:** 2  
**Date:** [06.04.2025]

**Overview**

This sprint focused on implementing camera functionality in CODESYS on the Raspberry Pi and developing a basic Python example for controlling the Dobot robot arm.

**Achievements**

**1. Camera Integration in CODESYS**

* Connected and configured the camera module on the Raspberry Pi.
* Enabled camera access in CODESYS, following official documentation and example projects.
* Successfully captured images and streamed video within the CODESYS visualization environment.

**2. Basic Dobot Python Example**

* Installed the Dobot Python SDK on the Raspberry Pi.
* Developed and tested a basic Python script to connect to the Dobot Magician and execute simple movements.
* Verified the script’s functionality as a foundation for further Dobot control.

**Demonstration**

* Showed the live camera feed running in the CODESYS web visualization.
* Ran the Python script to control the Dobot, demonstrating successful connection and movement.

**Feedback & Next Steps**

* Stakeholders were satisfied with the progress on both camera and Dobot integration.
* The next sprint will focus on combining camera monitoring with interactive Dobot control via a web interface, and expanding the Python control logic.

Let me know if you need these as downloadable files or in a different format!