Slovenská technická univerzita v Bratislave Fakulta informatiky a informačných technológií

Ilkovičova 2, 842 16, Bratislava 4

Tímový projekt



Export úloh z nástroja JIRA

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Názov tímu: TEST.IOT

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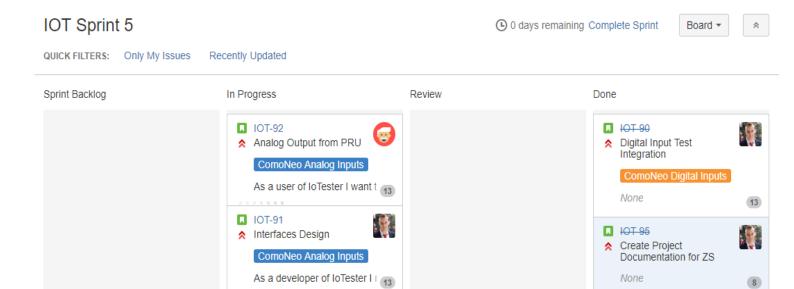
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| Summary | Issue key | Issue Type | Status | Assignee | Description | Epic Link | Epic Name | Sprint 1 | Sprint 2 | Sprint 3 | Sprint 4 | Sprint 5 | Story Points | Task type |
|---|------------------|---------------|-----------------|-----------------|--|-----------|------------|----------|----------|--------------|--------------|--------------|--------------|---------------|
| Create Project Documentation for ZS | IOT-95 | Story | Closed | Stanislav Širka | | | | | | | | IOT Sprint 5 | 8.0 | |
| Close Sprint 3 Create First Document for | IOT-94 | Task | Closed | Stanislav Širka | | | | | | | IOT Sprint 4 | | | other |
| Project | IOT-93 | Story | Closed | Stanislav Širka | | | | | | | IOT Sprint 4 | | 8.0 | |
| Analog Output from PRU | ЮТ-92 | Story | In Progress | Rastislav Kováč | As a user of loTester I want to be able to generate analog outputs with defined timing to be able to test the ComoNeo. Acceptance criteria: *simple analog output example is compilable and possible to load into PRU *team understands how the DAC chip is connected to the board (SPI, GPIOs) File and GPIOs necessary to control DAC are enabled in the device tree *team has basic understanding of used DACsA [http://www.to.om/it/ids/syminic/dac/334 dpf] *team understands daisy-chain concept [https://www.maximintegrated.com/en/app-notes/index.mvp/id/3947] *team understand how to send data over SPI from PRU (what is the data format, how the address is stored in the data) - basicaly to understand what this code means. ((uint32.1) bata.Channel[Count].GurrentValue)& 0xFFFF] [(((0x04) + ((iii)Cut)/C) C) Alan DEVECES) << 16) | IOT-36 | | | | | IOT Sprint 4 | IOT Sprint 5 | 13.0 | |
| Interfaces Design | IOT-91 | Story | In Progress | Stanislav Širka | As a developer of IoTester I need a design of the communication message between PRU and CPU. Acceptance criteria: | IOT-36 | | | | | IOT Sprint 4 | IOT Sprint 5 | 13.0 | |
| Digital Input Test | | | | | documentation of the message - will contain reasoningA the basic idea how to create this message in CPU is described | | | | | | | | | |
| Integration Deployment | IOT-90 IOT-89 | Story Epic | Closed To Do | Stanislav Širka | | IOT-2 | Deployment | | | | IOT Sprint 4 | IOT Sprint 5 | 13.0 | |
| | .5. 65 | cpit | 10 00 | | As a user I want try the latest changes of the IoTester firmware. | | Deployment | | | | | | | |
| Jenkins pipeline for installation image | IOT-88 | Story | To Do | | Acceptance criteria: * Jenkins pipeline which will be trigerred by the change in a git branch and will compose the loTester firmware As a developer/tester/user I want to try the latest changes in the | IOT-89 | | | | | | | | |
| Installation image build | IOT-87 | Story | To Do | | Acceptance criteria: * script which will integrate parts of the loTester firmware (web server, PRU binary,) | IOT-89 | | | | | | | | |
| Enable multiple digital and analog outputs | IOT-86 | Story | To Do | | As a user I want to use all analog and digital outputs of IoTester to be able to control Commolo. Acceptance criteria: * Rest AP is extended so that it allows configuration of all digital and analog outputs * RTU executes the configuration according defined timing | IOT-40 | | | | | | | | |
| ComoNeo simulator data conversion | 10Т-85 | Story | To Do | | As a ComoNeo tester I want to be able to take the data for ComoNeo simulator and configure with the loTester Acceptance criteria: * Robot framework keyword which will load configuration from ComoNeo figas simulator and configures loTester via Rest API ComoNeo Simulator input data description: [https://git.kistler.com/comong/comong-software/tree/master/core/lib/frggs/Simulator] ComoNeo Simulator input data examples: [https://git.kistler.com/comong/comong-software/tree/release-3.0/Testing/RestApi-Roboty/Setups/Zmdds/ApplicationFiles/Simulator] [https://git.kistler.com/comong/comong-software/tree/release-3.0/Testing/RestApi-Roboty/Setups/Zmdds/ApplicationFiles/Simulator] A A | IOT-40 | | | | | | | | |
| RTU loTester analog output | IOT-84 | Story | To Do | | As a user I want to generate a defined digital output in real time. Acceptance criteria: * PRU process a message with values of digital output and analog output and sets that according timing defined in the message | IOT-36 | | | | | | | | |
| REST API for analog output of IoTester | IOT-83 | Story | To Do | | As a user of loTester I want to be able to set the analog and digital outputs. Acceptance criteria: *iOTester Rest API provides a call which allows to set digital and analog outputs of loTester *the RestAPI handler sends the data as a message to RTU HINT: The handlers on acceptable data in a "PETI friendly" form. | IOT-36 | | | | | | | | |
| Create a test for ComoNeo analog input | IOT-82 | Story | To Do | | The handler can prepare the data in a "RTU friendly" form. As I user I want to generate analog output on IoTester and test the behaviour of ComoNeo firmware. Acceptance criteria: * Test sets the measurement start of the ComoNeo to a pin connected to lotTester * Test sets the analog output values to the IoTester (e.g. in 10 seconds A sets 10 different values) * Test starts the measurement with digital output of IoTester * Test checks the values using cursor in ComoNeo web application (see the attachment) | IOT-36 | | | | | | | | |
| Installer SD card image | IOT-81 | Story | To Do | | As a user I want to be able to install loTester software to a new B88. Acceptance criteria: * SO card image& which installs the IoTester firmware into internal memory of 888 * document how to install the new B88 | IOT-89 | | | | | | | | |
| Model Architecture for Project | IOT-80 | Task | Closed | Stanislav Širka | | | | | | IOT Sprint 3 | IOT Sprint 4 | | | documentation |
| Presentation for Sprint 3 End | IOT-79 | Task | Closed | Stanislav Širka | | | | | | IOT Sprint 3 | | | | other |
| Document how to use loTester for ComoNeo | IOT-64 | Group | Group | | | | | | | | | | | |
| Document how to use IoTester for devices other than ComoNeo Tests integration into | IOT-76 | Group | Group | | | | | | | | | | | |
| continuous integration system | IOT-60 | Group | Group | | | | | | | | | | | |
| Test examples implementation | IOT-55 | Group | Group | | | | | | | | | | | |
| Robot framework integration | IOT-66 | Group | Group | | | | | | | | | | | |
| loTester implementation | IOT-58 | Group | Group | | | | | | | | | | | |

| 17.0 | IOT CO | | | | L. C. | | | | | | 1 | | |
|--|------------------|----------------|------------------|------------------------------------|--|--------|-----------------------|--------------|--------------|--------------|---|-----|--------------------------------|
| loTester architecture High level architecture | IOT-69 | Group | Group | | Architecture of the IoTester software is documented. Architecture document contains high level view on PRU, ARM, | | | | | | | | |
| Architecture document | IOT-68 | Group | Group | | beaglebone, robot framework and ComoNeo relations.Â | | | | | | | | |
| Robot Framework Tests | IOT-70 | Group | Group | | Examples of robot framework tests demonstrates the functionality of loTester. | | | | | | | | |
| Robot Framework tests | IOT-67 | Group | Group | | REST API is documented. Documentation contains description how to use | | | | | | | | |
| Documentation | IOT-56 | Group | Group | | the interface for different devices (not Lukáš Ondrigay for ComoNeo). | | | | | | | | |
| Configuration of various devices | IOT-73 | Group | Group | | REST API should not be ComoNeo specific. It should be possible to use the same data model for other devices. | | | | | | | | |
| Configuration of analog signals | IOT-72 | Group | Group | | It is possible to configure analog signals over REST API. | | | | | | | | |
| Configuration of digital signals | IOT-77 | Group | Group | | It is possible to set digital input signals over REST API. | | | | | | | | |
| REST API Housing | IOT-75 IOT-61 | Group Group | Group Group | | On the basis of ComoNeo analysis create a REST API interface. 3D printer housing modelsÅ is designed. | | | | | | | | |
| Implementation | IOT-62 | Group | Group | | The goal of the implementation is to provide several working automated tests of the ComoNeo device. | | | | | | | | |
| Software Hardware | IOT-59 | Group | Group | | Harware consists of reusable part and device specific part (e.g. ComoNeo | | | | | | | | |
| Design | IOT-74 | Group | Group | | connectors). | | | | | | | | |
| Environment | IOT-71 | Group | Group | | First prototype of the device is used to test ComoNeo;Â [https://www.kistler.com/en/applications/industrial-process- control/plastic-process-monitoring/injection-molding-process- control/process-monitoring-with-comoneo/] | | | | | | | | |
| Project goal | IOT-78 | Group | Group | | The goal of the porject is to enable automatic testing of measuring devices. For this purpose it is necessary to develop a device able to generate various analog and digital signals which will simulate sensors and device states. | | | | | | | | |
| Project goal Port IoTester specification | IOT-57 | Group Task | Group | Lukáš Ondriga | | | | | | IOT Sprint 3 | | | |
| to Jira | 101-54 | Iask | Closed | Lukas Ondriga | | | | | | IO1 Sprint 3 | | | |
| Manage Kistler resources for PCB design | IOT-53 | Task | Closed | Lukáš Ondriga | | | | | | IOT Sprint 3 | | | |
| Create Document for Tasks Managment | IOT-52 | Task | Closed | Stanislav Širka | | | | | | IOT Sprint 3 | | | documentation |
| Create Document for Jira Changes | IOT-51 | Task | Closed | Stanislav Širka | | | | | | IOT Sprint 3 | | | documentation |
| Close Sprint 2 | IOT-50 | Task | Closed | Stanislav Širka | As a hardware engineer, IÂ want to create document for board design, | | | | | IOT Sprint 3 | | | |
| Prepare Document for Board Design | IOT-49 | Story | In Progress | Miroslav Sabo | so that we can use it as a guideline for creating final design of our new board.Â | IOT-1 | | | | IOT Sprint 3 | | 8.0 | |
| Close Sprint 1 | IOT-48 | Task | Closed | Stanislav Širka | Close sprint 1. Create sprint 2. | | | | IOT Sprint 2 | | | | other |
| Print User Stories | IOT-47 | Task | Closed | Stanislav Širka | Export tasks from Jira. | | | IOT Sprint 1 | Spriiit Z | | | | other |
| Export Data From Jira - Sprint 1 Start | IOT-46 | Task | Closed | Stanislav Širka | | | | IOT Sprint 1 | | | | | other |
| Create Methodic for | IOT-45 | Task | Closed | Stanislav Širka | | | | IOT Sprint 1 | | | | | documentation |
| Methodics Document | | | | | Create methodic for: | | | | | | | | |
| Methodics Implement REST API | IOT-44 | Story | Closed To Do | Stanislav Širka | * Meeting Documentation *Tasks management -done * Methodics -done * Code versioning -done * Web - done | IOT-40 | | IOT Sprint 1 | IOT Sprint 2 | IOT Sprint 3 | | 3.0 | |
| Design REST API | ЮТ-42 | Story | То Do | | * REST AP Is not ComoNeo specific * REST AP Host bot set digital and analog outputs of loTester * Documentation of REST APJÄ Ä Hint: Analyse the data used in ComoNeo software simulator: [https://git.kistler.com/comone/comong-software/tree/master/Core/lib/Fpg/Simulator/ Various configurations of software simulator are available here in ApplicationFiles/Simulator folders: [https://git.kistler.com/comong/comong-software/tree/master/Testing/RestApj-Robot/Setups] | IOT-40 | | | | | | | |
| Analyze, design, implement | IOT-40 | Epic | To Do | | Â | | REST API | | | | | | |
| REST API | | | | | As a user I want to be able to test an analog output on IoTester to be able | | 112011111 | | | | | | |
| Test analog inputs on ComoNeo | IOT-36 | Epic | To Do | | to test analog input of ComoNeo. Acceptance criteria: *test in robot framework: ** configures lo Tester to send an analog signal ** checks if the signal was measured by ComoNeo | | ComoNeo Analog Inputs | | | | | | |
| Study Story Points Study Poker Cards | IOT-35 IOT-34 | Task Task | Closed Closed | Stanislav Širka Stanislav Širka | | | | | | | | | other other |
| Study SCRUM | IOT-33 | Task Task | Closed | Stanislav Širka Stanislav Širka | | | | | | | | | other other |
| Write TP1 Requirements Update Trello | IOT-31 | Task | Closed | Stanislav Širka Stanislav Širka | | | | | | | | | other |
| Create Team Website Decide on Our Guidelines | IOT-30 | Story Task | Closed To Do | Tomáš Bujna | | | | IOT Sprint 1 | | | | 8.0 | other |
| Kistler VPN Access | IOT-28 | Task | In Progress | Lukáš Ondriga | | | | IOT Sprint 1 | IOT Sprint 2 | | | | other |
| Decleration Documents Create Team Poster | IOT-27 | Task Task | Closed Closed | | | | | | | | | | documentation documentation |
| Create Project Specification | IOT-25 | Task | Closed | Lukáš Ondriga | | | | | | | | | documentation |
| Share Google Drive Create Team Chat | IOT-24 IOT-23 | Task Task | Closed | | | | | | | | | | other other |
| Decide on Continuous Server | IOT-22 | Task | Closed | | | | | | | | | | other |
| Create Team GIT | IOT-21 | Task | Closed | | Subtasks left: | | | | | | | | other |
| Add Tasks to Jira Call Program on RTU from | IOT-20 | Task | Closed | Stanislav Širka | * Create Sprint - done * Add tasks to Sprint - done * Add task owners - done | | | IOT Sprint 1 | | | | | other |
| CPU | IOT-19 | Task | Closed | | | IOT-2 | | | | | | | implementation |
| Analyze Communication Between RTU and CPU Load Program to RTU | IOT-18 | Task | Closed | lgor Labát | As a user I want to be able to set digital output from RTU to be able to test Comolveo digital input. Acceptance criteria: | IOT-2 | | IOT Sprint 1 | IOT Sprint 2 | IOT Sprint 3 | | | analysis |
| | | | | | Running RTU program which sets the digital output of IOTester according configuration from CPU. | | | | | | | | |
| Choose Simple Program for RTU | IOT-16 | Task | Closed | | | IOT-2 | | | | | | | analysis |
| Choose Web Server Technology | IOT-15 | Task | Closed | Rastislav Kováč | | IOT-2 | | IOT Sprint 1 | | | | | other |
| RTU and Web Server Compatibility | IOT-14 | Task | Closed | | | IOT-2 | | | | | | | analysis |
| | IOT-13 | Task | Closed | | | IOT-2 | | | | | | | analysis |

| | | | | | As a user I want to test the ComoNeo digital input. | | | | | | | | |
|--|--------|-------|--------|----------------------|--|-------|------------------------|--------------|---------------|--------------|--------------|------|--|
| | | | | | Acceptance criteria: | | | | | | | | |
| | | | | | · | | | | | | | | |
| Create a Test | IOT-12 | Story | Closed | Marián Ján Franko | Test configures loTester (library for loTester configuration will be implemented in different user story) | IOT-2 | | IOT Sprint 1 | IOT Sprint 2 | IOT Sprint 3 | | 13.0 | |
| | | | | | Test checks the ComoNeo web application if the digital input was set. | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | Ä | | | | | | | | |
| | | | | | As a test developer I want to have a library to use IOTester | | | | | | | | |
| | | | | | Acceptance criteria: | | | | | | | | |
| Robot Framework LIB | IOT-11 | 61 | Closed | Marián Ján | * python module * keywords to set Como digital inputs are implemented | IOT-2 | | | | .07.5 | | 5.0 | |
| KODOT Framework LIB | 101-11 | Story | Closed | Franko | HINT:Â implementation of the keywords are POST requests to the | 101-2 | | | | IOT Sprint 3 | | 5.0 | |
| | | | | | IOTester | | | | | | | | |
| | | | | | POST request is implemented in http://jira.kistler.com/browse/IOT-10 | | | | | | | | |
| | | | | | As a user of IOTester I want to have interface to set the Como digital | | | | | | | | |
| | | | | | input to be able to configure IOTester. | | | | | | | | |
| REST API Prototype | IOT-10 | Story | Closed | Tomáš Bujna | Acceptance criteria: | IOT-2 | | | | IOT Sprint 3 | | 3.0 | |
| | | | | | * working webserver on beagleboard * implemented simple post request with value of digital input (0 or 1) | | | | | | | | |
| | | | | | * post request execution is logged to the console | | | | | | | | |
| | | | | | As a user I want to be able to set digital output from RTU to be able to | | | | | | | | |
| Program for RTUexe | | | | | test ComoNeo digital input. | | | | | | | | |
| Configuration | IOT-9 | Story | Closed | Filip Starý | Acceptance criteria: | IOT-2 | | | | | IOT Sprint 4 | 8.0 | |
| | | | | | Running RTU program which sets the digital output of IOTester | | | | | | | | |
| | | | | | according configuration from CPU. As a user I need to configure real time simulation to run various | | | | | | | | |
| | | | | | simulations. | | | | | | | | |
| RTU and CPU Communication | IOT-8 | Story | Closed | Filip Starý | Acceptance criteria: | IOT-2 | | IOT Sprint 1 | IOT Sprint 2 | IOT Sprint 3 | | 5.0 | |
| | | | | | RTU and CPU prototype is running on Beaglebone Linux console. | | | | | | | | |
| | | | | | As a user I need to do a real time simulation to be able to simulate sensor | | | | | | | | |
| | | | | | measurements. | | | | | | | | |
| Load RTUexe | IOT-7 | Story | Closed | Igor Labát | Acceptance criteria: | IOT-2 | | IOT Sprint 1 | IOT Sprint 2 | IOT Sprint 3 | | 13.0 | |
| | | | | | Loading of the program to the real time unit will be shown on Linux | | | | | | | | |
| | | | | | console. | | | | | | | | |
| | | | | | As a developer I want to select frameworks/technologies to be able to write REST API for BeagleBone Black real time unit configurations. | | | | | | | | |
| Technology for Linux (Web | IOT-6 | Story | Closed | Rastislav Kováč | | IOT-2 | | IOT Sprint 1 | | | | 5.0 | |
| Server) | | | | | Acceptance criteria: | | | | | | | | |
| | | | | | Document 3 alternatives with pros and cons. | | | | | | | | |
| New Housing Design | IOT-5 | Story | To Do | Miroslav Sabo | | IOT-1 | | | | | | 3.0 | |
| | | | | | As a hardware engineer, I want to design board in modules block, so that each module has a particular function and could be possible to | | | | | | | | |
| Design Boards as modules | IOT-4 | Story | To Do | Miroslav Sabo | replace it with extended function.Â | IOT-1 | | | | | | 13.0 | |
| J | | | | | Acceptance criteria: | | | | | | | | |
| | | | | | # Detail block schematic of modules and connection between them # Created design user stories for each modules | | | | | | | | |
| | | | | | As a hardware engineer I need to analyse the current board to be able to | | | | | | | | |
| Analyze Board | IOT-3 | Story | Closed | Miroslav Sabo | make the final design. | IOT-1 | | IOT Sprint 1 | IOT Sprint 2 | | | 8.0 | |
| Analyze board | 101-3 | Story | Ciosed | WITUSIAV SADO | Acceptance criteria: | 101-1 | | or sprint 1 | io i sprint 2 | | | 8.0 | |
| | | | | | Document the current design of the board. | | | | | | | | |
| Testing digital inputs on ComoNeo | IOT-2 | Epic | To Do | | | | ComoNeo Digital Inputs | | | | | | |
| Refactoring HW for better compactness | IOT-1 | Epic | To Do | | | | IoTester Refactoring | | | | | | |
| | | | | | | | | | | | | | |