

Slovenská technická univerzita v Bratislave
Fakulta informatiky a informačných technológií

Ilkovičova 2, 842 16, Bratislava 4

Tímový projekt



Vedúci projektu: doc. Ing. Tibor Krajčovič, PhD.
Spolupráca: Ing. Lukáš Ondriга, Kistler Bratislava, s.r.o.
Názov tímu: TEST.IOT
Členovia tímu: Bc. Tomáš Bujna
Bc. Marián Ján Franko
Bc. Rastislav Kováč
Bc. Igor Labát
Bc. Miroslav Sabo
Bc. Filip Starý
Bc. Stanislav Širka
Kontakt: fiit.tp.tim15@gmail.com
Akademický rok: 2018/2019

Sprint Backlog

In Progress

Review

Done

IOT-49
Prepare Document for Board Design
IoTTester Refactoring
As a hardware engineer, I want to create document for board 8

IOT-80
Model Architecture for Project
None

IOT-64
Port IoTTester specification to Jira
None

IOT-7
Load RTUexe
ComoNeo Digital Inputs
As a user I need to do a real time simulation to be able to simi 13

IOT-8
RTU and CPU Communication
ComoNeo Digital Inputs
As a user I need to configure real time simulation to run vario 6

IOT-42
Create a Test
ComoNeo Digital Inputs
As a user I want to test the ComoNeo digital input. 13

IOT-44
Methodics
Create methodic for: 3

IOT-47
Load Program to RTU
ComoNeo Digital Inputs
As a user I want to be able to set digital output from RTU to b 6

IOT-41
Robot Framework LIB
ComoNeo Digital Inputs
As a test developer I want to have a library to use IoTTester 6

IOT-40
REST API Prototype
ComoNeo Digital Inputs
As a user of IoTTester I want to have interface to set the Como 3

IOT-63
Manage Kistler resources for PCB design
None

IOT-60
Close Sprint 2
None

IOT-64
Create Document for Jira Changes
None

IOT-62
Create Document for Tasks Managment
None

IOT-79
Presentation for Sprint 3 End
None

Summary	Issue key	Issue Type	Status	Assignee	Description	Epic Link	Epic Name	Sprint 1	Sprint 2	Sprint 3	Story Points	Task type
Project goal	IOT-78	Group	Group		The goal of the project 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.							
Environment	IOT-71	Group	Group		First prototype of the device is used to test ComoNeo:Å [https://www.kistler.com/en/applications/industrial-process-control/plastic-process-monitoring/injection-molding-process-control/process-monitoring-with-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.							
REST API	IOT-75	Group	Group		On the basis of ComoNeo analysis create a REST API interface.							
Robot Framework Tests	IOT-70	Group	Group		Examples of robot framework tests demonstrates the functionality of IoTester.							
Configuration of analog signals	IOT-72	Group	Group		It is possible to configure analog signals over REST API.							
Document how to use IoTester for devices other than ComoNeo	IOT-76	Group	Group									
Design	IOT-74	Group	Group									
Configuration of digital signals	IOT-77	Group	Group		It is possible to set digital input signals over REST API.							
Implementation	IOT-62	Group	Group		The goal of the implementation is to provide several working automated tests of the ComoNeo device.							
High level architecture	IOT-65	Group	Group		Architecture document contains high level view on PRU, ARM, beaglebone, robot framework and ComoNeo relations.Å							
Hardware	IOT-63	Group	Group		Hardware consists of reusable part and device specific part (e.g. ComoNeo connectors).							
Housing	IOT-61	Group	Group		3D printer housing modelsÅ is designed.							
Tests integration into continuous integration system	IOT-60	Group	Group									
Document how to use IoTester for ComoNeo	IOT-64	Group	Group									
Robot framework integration	IOT-66	Group	Group									
Robot Framework tests	IOT-67	Group	Group									
IoTester architecture	IOT-69	Group	Group		Architecture of the IoTester software is documented.							
Architecture document	IOT-68	Group	Group									
Documentation	IOT-56	Group	Group		REST API is documented. Documentation contains description how to use the interface for different devices (not LukÅs Ondrigay for ComoNeo).							
Test examples implementation	IOT-55	Group	Group									
IoTester implementation	IOT-58	Group	Group									
Project goal	IOT-57	Group	Group									
Software	IOT-59	Group	Group									
Digital Input Test Integration	IOT-90	Story	To Do	Stanislav Åirka		IOT-2					13.0	
Testing digital inputs on ComoNeo	IOT-2	Epic	To Do				ComoNeo Digital Inputs					
Create Team Poster	IOT-26	Task	Closed									documentation
Decide on Continuous Server	IOT-22	Task	Closed									other
Call Program on RTU from CPU	IOT-19	Task	Closed			IOT-2						implementation
Analyze Communication Between RTU and CPU	IOT-18	Task	Closed			IOT-2						analysis
Analyze RTU	IOT-13	Task	Closed			IOT-2						analysis
Choose Simple Program for RTU	IOT-16	Task	Closed			IOT-2						analysis
RTU and Web Server Compatibility	IOT-14	Task	Closed			IOT-2						analysis
Model Architecture for Project	IOT-80	Task	In Progress	Stanislav Åirka						IOT Sprint 3		documentation
Load Program to RTU	IOT-17	Task	Closed	Igor LabÅt	As a user I want to be able to set digital output from RTU to be able to test ComoNeo digital input. Acceptance criteria: Running RTU program which sets the digital output of IoTester according configuration from CPU.	IOT-2		IOT Sprint 1	IOT Sprint 2	IOT Sprint 3		implementation
Methodics	IOT-44	Story	Closed	Stanislav Åirka	Create methodic for: * Meeting Documentation * Tasks management - done * Methodics - done * Code versioning - done * Web - done			IOT Sprint 1	IOT Sprint 2	IOT Sprint 3	3.0	
RTU and CPU Communication	IOT-8	Story	Closed	Filip Stary	As a user I need to configure real time simulation to run various simulations. Acceptance criteria: RTU and CPU prototype is running on Beaglebone Linux console.	IOT-2		IOT Sprint 1	IOT Sprint 2	IOT Sprint 3	5.0	
Load RTU.exe	IOT-7	Story	Closed	Igor LabÅt	As a user I need to do a real time simulation to be able to simulate sensor measurements. Acceptance criteria: Loading of the program to the real time unit will be shown on Linux console.	IOT-2		IOT Sprint 1	IOT Sprint 2	IOT Sprint 3	13.0	

Create Document for Tasks Management	IOT-52	Task	Closed	Stanislav Šírka							IOT Sprint 3		documentation
Presentation for Sprint 3 End	IOT-79	Task	Closed	Stanislav Šírka							IOT Sprint 3		other
Close Sprint 2	IOT-50	Task	Closed	Stanislav Šírka							IOT Sprint 3		
Create Document for Jira Changes	IOT-51	Task	Closed	Stanislav Šírka							IOT Sprint 3		documentation
REST API Prototype	IOT-10	Story	Closed	Tomáš Bujna	As a user of IoTTester I want to have interface to set the Como digital input to be able to configure IoTTester. Acceptance criteria: * working webservice on beagleboard * implemented simple post request with value of digital input (0 or 1) * post request execution is logged to the console		IOT-2				IOT Sprint 3	3.0	
Robot Framework LIB	IOT-11	Story	Closed	Marián Ján Franko	As a test developer I want to have a library to use IoTTester Acceptance criteria: * python module * keywords to set Como digital inputs are implemented HINT:Ā implementation of the keywords are POST requests to the IoTTester POST request is implemented inĀ http://jira.kistler.com/browse/IOT-10		IOT-2				IOT Sprint 3	5.0	
Prepare Document for Board Design	IOT-49	Story	In Progress	Miroslav Sabo	As a hardware engineer, IĀ want to create document for board design, so that we can use it as a guideline for creating final design of our new board.Ā		IOT-1				IOT Sprint 3	8.0	
Design REST API	IOT-42	Story	To Do		As a user of IoTTester I need the documentation of REST API to be able to use this interface. Acceptance criteria: * REST API is not ComoNeo specific * REST API enables to set digital and analog outputs of IoTTester * Documentation of REST APIĀ Ā Hint: Analyse the data used in ComoNeo software simulator: [https://git.kistler.com/comong/comong-software/tree/master/Core/lib/Fpga/Simulator] Various configurations of software simulator are available here in ApplicationFiles/Simulator folders: [https://git.kistler.com/comong/comong-software/tree/master/Testing/RestApi-Robot/Setups] Ā		IOT-40						
Port IoTTester specification to Jira	IOT-54	Task	Closed	Lukáš Ondřiga							IOT Sprint 3		
Implement REST API	IOT-43	Story	To Do				IOT-40						
Decide on Our Guidelines	IOT-29	Task	To Do										other
Refactoring HW for better compactness	IOT-1	Epic	To Do					IoTTester Refactoring					
Design Boards as modules	IOT-4	Story	To Do	Miroslav Sabo	As a hardware engineer, IĀ want to design board in modules block, so that each module has aĀ particular functionĀ and could be possible to replace it with extended function.Ā Acceptance criteria: # Detail block schematic of modules and connection between them # Created design user stories for each modules		IOT-1					13.0	
New Housing Design	IOT-5	Story	To Do	Miroslav Sabo			IOT-1					3.0	
Create a Test	IOT-12	Story	Closed	Marián Ján Franko	As a user I want to test the ComoNeo digital input. Acceptance criteria: Test configures IoTTester (library for IoTTester configuration will be implemented in different user story) Test checks the ComoNeo web application if the digital input was set. Ā		IOT-2		IOT Sprint 1	IOT Sprint 2	IOT Sprint 3	13.0	
Analyze Board	IOT-3	Story	Closed	Miroslav Sabo	As a hardware engineer I need to analyse the current board to be able to make the final design. Acceptance criteria: Document the current design of the board.		IOT-1		IOT Sprint 1	IOT Sprint 2		8.0	
Close Sprint 1	IOT-48	Task	Closed	Stanislav Šírka	Close sprint 1. Create sprint 2. Export tasks from Jira.					IOT Sprint 2			other
Kistler VPN Access	IOT-28	Task	In Progress	Lukáš Ondřiga					IOT Sprint 1	IOT Sprint 2			other
Create Team Website	IOT-30	Story	Closed	Tomáš Bujna					IOT Sprint 1			8.0	
Print User Stories	IOT-47	Task	Closed	Stanislav Šírka					IOT Sprint 1				other
Choose Web Server Technology	IOT-15	Task	Closed	Rastislav Kováč			IOT-2		IOT Sprint 1				other
Technology for Linux (Web Server)	IOT-6	Story	Closed	Rastislav Kováč	As a developer I want to select frameworks/technologies to be able to write REST API for BeagleBone Black real time unit configurations. Acceptance criteria: Document 3 alternatives with pros and cons.		IOT-2		IOT Sprint 1			5.0	

