Slovenská technická univerzita v Bratislave Fakulta informatiky a informačných technológií

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Tímový projekt



Vedúci projektu: doc. Ing. Tibor Krajčovič, PhD.

Spolupráca: Ing. Lukáš Ondriga, Kistler Bratislava, s.r.o.

Názov tímu: TEST.IOT

Členovia tímu: Bc. Tomáš Bujna

Bc. Marián Ján Franko Bc. Rastislav Kováč

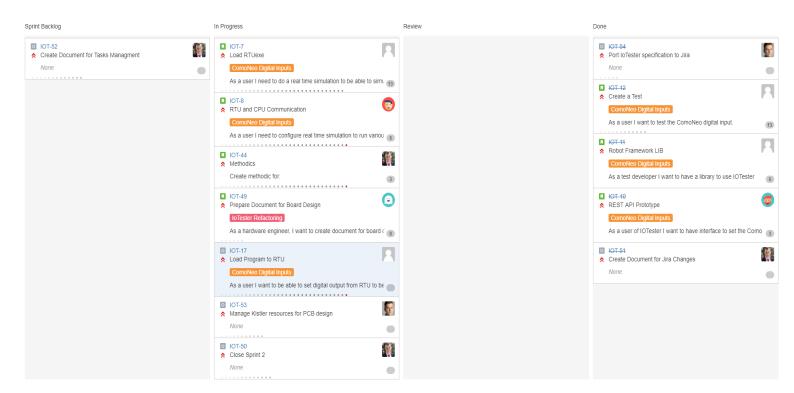
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Akademický rok: 2018/2019



Summary	Issue key	Issue Type	Status	Resolution	Assignee	Description	Epic Link	Epic Name	Sprint 1	Sprint 2	Sprint 3	Story Points	Task type
Document how to use IoTester for ComoNeo	IOT-64	Group	Group										
Document how to use IoTester for devices other than ComoNeo	IOT-76	Group	Group										
Tests integration into 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										
IoTester architecture	IOT-69	Group	Group			Architecture of the IoTester software is documented.							
High level architecture	IOT-65	Group	Group			Architecture document contains high level view on PRU, ARM, beaglebone, robot framework and ComoNeo relations. A							
Architecture document	IOT-68	Group	Group										
Robot Framework Tests	IOT-70	Group	Group			Examples of robot framework tests demonstrates the functionality of IoTester.							
Robot Framework tests	IOT-67	Group	Group										
Documentation	IOT-56	Group	Group			REST API is documented. Documentation contains description how to use 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							
Configuration of digital signals	IOT-77	Group	Group			It is possible to set digital input signals over REST API.							
REST API	IOT-75	Group	Group			On the basis of ComoNeo analysis create a REST API interface.							
Housing	IOT-61	Group	Group			3D printer housing models is designed.							
Implementation	IOT-62	Group	Group			The goal of the implementation is to provide several working automated tests of the ComoNeo							
Software		Group	Group			device.							
Hardware		Group	Group			Harware consists of reusable part and device							
Design		Group				specific part (e.g. ComoNeo connectors).							
Environment		Group				First prototype of the device is used to test ComoNeo:Â [https://www.kistler.com/en/applications/industri							
						al-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	IOT-57		Group	Dana	Lulufă Ondrina						IOT Cariat 2		
specification to Jira Manage Kistler resources for PCB	IOT-54	Task	Closed In Progress	Done	Lukáš Ondriga Lukáš Ondriga						IOT Sprint 3		
design Create Document for Tasks Managment	IOT-52	Task	To Do		Stanislav Širka						IOT Sprint 3		documentation
Create Document for	IOT-51	Task	Closed	Done	Stanislav Širka						IOT Sprint 3		documentation
Jira Changes Close Sprint 2	IOT-50	Task	In Progress		Stanislav Širka						IOT Sprint 3		
Prepare Document for Board Design	IOT-49	Story	In Progress		Miroslav Sabo	As a hardware engineer, IÂ want to create document for board design, 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		Closed	Done	Stanislav Širka	Close sprint 1. Create sprint 2. Export tasks from Jira.			IOT Contact	IOT Sprint 2			other
Print User Stories Export Data From Jira -	IOT-47	Task	Closed	Done Done	Stanislav Širka Stanislav Širka				IOT Sprint 1 IOT Sprint 1				other other
Sprint 1 Start Create Methodic for Methodics Document	IOT-45		Closed	Done	Stanislav Širka				IOT Sprint 1				documentation
Methodics	IOT-44		In Progress		Stanislav Širka	Create methodic for: * Meeting Documentation * Tasks managmentÅ * Methodics - done * Code versioning - done * Web - done			IOT Sprint 1	IOT Sprint 2	IOT Sprint 3	3.0	
Implement REST API	IOT-43	Story	To Do				IOT-40						

						As a user of IoTester 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 loTester							
						* Documentation of REST APIÂ							
Design REST API	IOT-42	Story	To Do			Hint: Analyse the data used in ComoNeo software simulator:	IOT-40						
						[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]							
						As a user I want to have a documentation of loTester REST API to be able understand the interface.							
Analyze SW Testing	IOT-41	Story	To Do			Acceptance criteria: * interface needs to allow to configure the hardware configuration (connectors/pins names of	IOT-40						
						tested device) * interface allows to configure simulation of analog/digital signal							
						Â							
Analyze, design, implement REST API	IOT-40	Epic	To Do					REST API					
						As a user I want to be able to test an analog output on IoTester to be able to test analog input of ComoNeo.							
Test analog inputs on ComoNeo	IOT-36	Epic	To Do			Comoneo. Acceptance criteria: * test in robot framework:		ComoNeo Analog Inputs					
						** configures IoTester to send an analog signal ** checks if the signal was measured by ComoNeo							
Study Story Points Study Poker Cards	IOT-35 IOT-34	Task	Closed	Done Done	Stanislav Širka Stanislav Širka								other other
Study SCRUM Write TP1	IOT-33		Closed	Done	Stanislav Širka								other
Requirements Update Trello	IOT-32		Closed	Done Done	Stanislav Širka Stanislav Širka								other
Create Team Website	IOT-30		Closed	Done	Tomáš Bujna				IOT Sprint 1			8.0	other
Decide on Our	IOT-29	Task	To Do										other
Guidelines Kistler VPN Access	IOT-28		In Progress		Lukáš Ondriga				IOT Sprint 1	IOT Sprint 2			other
Decleration Documents	IOT-27	Task	Closed	Done									documentation
Create Team Poster Create Project	IOT-26		To Do										documentation
Specification	IOT-25		To Do		Lukáš Ondriga								documentation
Share Google Drive Create Team Chat	IOT-24 IOT-23		Closed Closed	Done Done									other other
Decide on Continuous Server	IOT-22		To Do										other
Create Team GIT	IOT-21	Task	Closed	Done		Subtasks left:							other
Add Tasks to Jira	IOT-20	Task	Closed	Done	Stanislav Širka	* Create Sprint - done * Add tasks to Sprint - done * Add task owners - done			IOT Sprint 1				other
Call Program on RTU from CPU	IOT-19	Task	To Do				IOT-2						implementation
Analyze Communication Between RTU and CPU	IOT-18	Task	To Do				IOT-2						analysis
						As a user I want to be able to set digital output from RTU to be able to test ComoNeo digital input.							
Load Program to RTU	IOT-17	Task	In Progress		Igor Labát	Acceptance criteria:	IOT-2		IOT Sprint 1	IOT Sprint 2	IOT Sprint 3		implementation
						Running RTU program which sets the digital output of IOTester according configuration from CPU.							
Choose Simple Program for RTU	IOT-16	Task	To Do				IOT-2						analysis
Choose Web Server	IOT-15	Task	Closed	Done	Rastislav Kováč		IOT-2		IOT Sprint 1				other
RTU and Web Server	IOT-14		To Do				IOT-2						analysis
Compatibility Analyze RTU	IOT-13		To Do				IOT-2						analysis
						As a user I want to test the ComoNeo digital input.							
						Acceptance criteria:							
						Test configures IoTester (library for IoTester							
Create a Test	IOT-12	Story	Closed	Done	Marián Ján Franko	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.							
						Â							

Robot Framework LIB	IOT-11	Story	Closed	Done	Marián Ján Franko	As a test developer I want to have a library to use IOTester Acceptance criteria: * python module * keywords to set Como digital inputs are implemented HINT-Â implementation of the keywords are POST requests to the IOTester POST request is implemented in http://jira.kistler.com/browse/IOT-10	IOT-2				IOT Sprint 3	5.0	
REST API Prototype	IOT-10	Story	Closed	Done	Tomáš Bujna	As a user of IOTester I want to have interface to set the Como digital input to be able to configure IOTester. Acceptance criteria: * working webserver 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	
Program for RTUexe	IOT-9	Story	To Do		Filip Starý		IOT-2					5.0	
Configuration RTU and CPU Communication	IOT-8	Story	In Progress		Filip Starý	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 RTUexe	IOT-7	Story	In Progress		lgor Labát	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	8.0	
Technology for Linux (Web Server)	IOT-6	Story	Closed	Done	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	
New Housing Design	IOT-5	Story	To Do		Miroslav Sabo		IOT-1					3.0	
Design Boards as modules	IOT-4	Story	To Do		Miroslav Sabo	As a hardware engineer, I want to design board in modules block, so that each module has aA particular function and could be possible to replace it with extended function. Acceptance criteria: # Detail block schematic of modules and connection between them # Created design user stories for each modules	IOT-1					13.0	
Analyze Board	IOT-3	Story	Closed	Done	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	
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					