THE UNIVERSITY OF ALABAMA IN HUNTSVILLE

Corey Sanders <cls1432@uah.edu>

CPE 656 Train Trax Project Meeting Summary 11-12-15

3 messages

Corey Sanders <cls1432@uah.edu> Thu, Nov 12, 2015 at 7:53 PM
To: Stephen Jalbert <sgj0001@uah.edu>, Rashad Madyun <rmadyun@gmail.com>
Cc: Corey Sanders <cls1432@uah.edu>

Summary:
Talked about status of Track Geometry Collection. Manual measurements using fabric tape measurer proved consistent with previous measurements with a traditional tape measurer. Confirmed that mounts for laser range finders are being equipped on table. Expected to be completed by the end of the week.
Talked about using YouTrack more to organize our efforts from week-to-week. We should be able to break down issues and place them in Weekly Sprints using the Agile capabilities of YouTrack.
Mentioned Eliminating all Use Cases Except for the Track Train Position Because of the Amount of Remaining Work To Do and because it doesn't really add much value to what Dr. Kulick wants. Especially since our description of the purpose of the layout did not interest him much.

Corey
Done:
Performed a round of manual measurement of points on track.
About halfway finished with design of Train Navigation Service.
Completed an entity state diagram for the main classes in the service including responsibilities and collaboration, and the accompanying text to describe each class.

Next Actions:
Take the collect data from manual measurements to import into a test database.
Create control flow and data flow diagrams for service.
Create sequence diagram for the uses cases that apply.
Create entity state diagram for the data classes.
Correct out of place text in latest version of Team Operation Document.
Rename of Team Operation Document as suggested by Dr. Kulick.
Create Sprints for out remaining weekly deliveries.

Stephen
Done:
Retrieved RFID Reader from Jason as well as sample RFID Tags. [Interop with our boards appears to be straight forward]; Jason suggested that we use hot glue or some other temporary means to mount the hardware to the rail cars.
Started evaluating how to get the Arduino boards to communicate with the RFID Reader.
Continued creating Activity Diagrams

Next Actions:
Will continue work connecting RFID Reader to Arduino.
Finish Activity Diagrams
Add Wifi Replacement XBee Module to Hardware Purchase list.

Corey Sanders <cls1432@uah.edu> Fri, Nov 13, 2015 at 5:44 AM
To: Stephen Jalbert <sgj0001@uah.edu>, Rashad Madyun <rmadyun@gmail.com>
Cc: Corey Sanders <cls1432@uah.edu>

Addendum

Attendees
Corey Sanders
Stephen Jalbert
Rashad Madyun was unavailable due to illness

Corey:
Done:
Assuming (and I recommend) that we use the Model-View-ViewModel Design Part for the GUI,
I have created some Classes to use in the Design of the GUI for the backend support of the Windows.
(They can be discarded if Rashad does not approve since he's doing the GUI Design. Only created those because they were similar to what was already being created for the Navigation Service)

Stephen
Done:
Soldered headers to Arduino and IMU boards so that the IMUs can connect to the Arduino Mini

Rashad
Done:
Uploaded SDD changes to include portions of the GUI design

Next Actions:
Continue Working On UI Prototyping (Would only worry about main menu, Train Monitor, Train Monitor History Windows -> i.e. Only the Windows necessary for the Monitor Train Position and Control Track Switch Use Cases)
Continue Updated the SDD with GUI Design
[Quoted text hidden]

Corey Sanders <cls1432@uah.edu> Fri, Nov 13, 2015 at 5:47 AM
To: Stephen Jalbert <sgj0001@uah.edu>, Rashad Madyun <rmadyun@gmail.com>
Cc: Corey Sanders <cls1432@uah.edu>

One last thing guys.
Before Monday, I would like the following things so that I can prepare for our presentation as much as possible on Monday:
As much of the SDD as possible completed:
I plan to merge my changes (which should include all of the Navigation Service Design) and any changes that I have from you guys together.

Before Wednesday,
We need to have some level of working hardware if possible.
[Quoted text hidden]