

9/18/2024 12:40 – 2:00 (80 minutes)

Recorded By:

Dartagnan Birnie

Attendance:

Dartagnan Birnie, David Scarborough, Genesis Soebagyo, Logan White, Adam Elsner

Discussion Points:

- Recap meeting with Jon yesterday (9/18/24)
- Project Workflow:
 - Everything that has an issue gets its own branch.
 - Copy from the current code, fix it, push that “small” update and then merge into larger branch.
- Stand ups:
 - Do a pull-request approval:
 - Whenever someone believes that we have a “completed” a feature, present it to the rest of the group before pushing to the main branch.
- Schedule for meetings / standup:
 - Monday + Wednesday:
 - In-person (class meeting time)
 - Tuesday:
 - Sponsor meeting with Jon.
 - Update on progress.
 - Questions and opinions from him
 - Friday:
 - Discord text “standup”.
 - Write out a paragraph of what you have been working on, what you plan on working on moving forward, and if there are any roadblocks you have ran into.
 - Sunday:
 - Discord text / video “standup”.
 - Additional meetings can be added upon groups approval.
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Action Items:

- Cloning Jon’s repo in Git.
- SSH into the existing test bed of PiRail.
 - Can’t connect in.

- Working through Agile Charter & User Stories
- Writing Email back to Jon.
 - Outline on how he wants the Gitlab created.
 - Instructions on how to

Questions:

- Can we only SSH into the test when not on eduroam?
- How do we best setup Gitlab and connect to his Github

9/16/2024

- Project Vision: Why does the project exist?
 - To face the challenge of railway mapping and inspection using data collection and analysis
- Success Criteria: How will you know when the project is complete and the vision is realized?
 - Graphic UI is built and works live (follows user in gui on the track)
 - Simulator allows user to test gui and/or playback previously recorded train rides
- Stakeholders: Who is involved and/or affected by this project?
 - Federal Railroad Administration
 - Jon Miner
 - PiRail Team (Adam, Logan, David, Genesis, Dart)
- Project Risks: What are the top risks of this project?
 - Hard to test based on timing of the project and just getting into it in the fall.
 - Bad weather can hinder outdoor testing.
- Responsibilities: What roles are needed and who is doing what?
 - ScrumMaster
 - Project Owner: Jon Miner
 - Scrum Team:
 - Will break down into specific roles once we meet with Jon, may rotate depending on job completion
 - Scribe: rotating
- How will the team communicate and collaborate?
 - The team will communicate through Discord through text and both online and offline meetings. These meetings will take place during assigned class times and outside during shared free time.
 - We have been communicating with Jon through
- Project Size and Complexity: What is the size and degree of difficulty of this project?
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- Product Roadmap: What is the strategic view of where the product is headed?
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- What is the MVP (end of semester)?
 - A mobile-friendly application with a robust user interface that displays both data collected in real time and pre-recorded / simulated data.
- What are the Epics?
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Questions:

- UI - Does he have a color scheme in mind?
- Does the simulator play back existing data, or create new data?
- Is the point of the simulator to test back the UI without having to collect physical data?
- What information needs to be visible from the “Waze-like” map display?
 - Everything from the existing example on the slides?
- Can we clone off your Gitlab?
- Can we have a copy of the software at it's current state?
- Is there a railroad map API that you had in mind already?
 - Like Open Railway Map?
 - <https://www.openrailwaymap.org/>
- Should we prioritize UI or create the testing environment earlier?
 - Need to prioritize backlog with Jon's input.

MEETING WITH JON:

- Don't worry about displaying estimated times etc. In app, main goal should be to give situation awareness of bridges etc. Route selected
- Going to be out of the country the next two weeks.
 - Monday 4th return date.
 - October 8th next meeting.
- What is the purpose of the simulator?
 - Testing the UI with live data means you need to have live data.
 - Simulator needs to play back existing data.
- Data collection in October.
- SSH into his test bed tomorrow.
- Get shirt sizes
- Download data off of openrailwaymap.org.
 - He wants it to look somewhat similar.
- The UI that is there right now, focused on doing command and control
 - Reporting data
- Don't touch the existing screens:
 - Make add-on screens
- Repo is publicly available.
- Main purpose is to increase student research into the railroad system.

- He is approaching this as a hobby.
- Local company in Boston called RailPod, semi-autonomous vehicle that does a lot of this.
 - Main competitor.
- Maybe we meet with CEO of RailPod.

User stories

Track inspector is main one