2020-09-03 Meeting notes

Date

03 Sep 2020

Attendees

- Christopher Butler
- Tabitha Holloway
- Mike Flamm
- Itai Kumengisa

Goals

- Understand what the purpose/product vision is
- Find out how to get starting code/existing UI to work with

Discussion items

- Why will the user need to do these calculations? To recreate crash
- What do users currently do? Do all calculations by hand
- Are there any competing products?/What is wrong with them? No competing products
- What will make this product stand out? Saves time and improve accuracy since only other option is hand calculations
- What are the most critical product attributes? Ease of use
- Why is Delta V making this product? Eliminate hand calculations
- What are the business goals for this product?
- What formulas are we using?
- What do the formulas calculate?
- What is process for receiving data?
- How can we get the existing UI/code so we can work on it?
- what can users do currently with the software provided now?

we have a UI, need to calculate formulas in the backend

C++ coding on backend

search tools to populate all tabs with info

they create the UI, we need to put the math behind it

responsible for pulling data up from a table

database uses mySQL

note: plan to get through a few formulas

1.do search, populate data

2.solutions get filled, along with labels of the car (labels around the picture of the red car)

2.5) car labels can be changed by user, if so, solutions need to be changed.

2.6) data at bottom of page is static

SOME NOTES:

- no software on the market for calculating these math formulas
- goal: implement user interface, search for vehicle data, complete number of calcs, open addtional calcs, produce solns
- note: code for a report page to get everything into pdf can be used
- target group: civil and mechanical engineers, vehicle manufactuares, investigators (including govt), insurance company, attorneys
- tabs should be filled first with primary info from Canadian database, next use the other db to fill in empty tabs (EVEN IF IT CONTAINS SAME DATA FROM CANADIAN DB ONLY FOCUS ON BLANK DATA), otherwise leave tab blank
- create framework for future teams to pick up where we left off

Mike will set up a Slack channel for us to talk about the project with his programmers

NEXT MEETING: 11am on TUESDAY 9/8

Action items

- get the product vision completed
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2020-09-08 Meeting notes

Date

08 Sep 2020

Attendees

- Christopher Butler
- Mike Flamm
- Itai Kumengisa
- Tabitha Holloway

Goals

Discussion items

Look at GitHub and Google Drive accounts that Mike sent invites to. Make sure everything we need is in there.

Different teams have already figured out how to download database and write reports to pdfs.

Focus on user stories and architecture

Get existing UI functioning with formulas is goal for project. Can do more if that was quick/easy

******** NOTE: Have QT installed ********

architecture:

- functionality (might fall under performance? ask teacher)
- usability
- modifiable
- Reliability
-
- (last) security

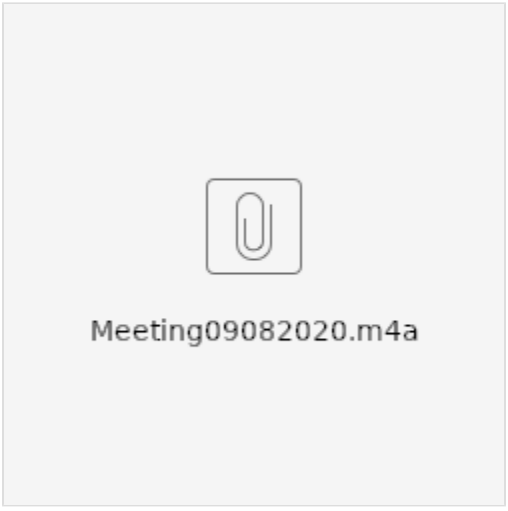
Next Meeting: THURSDAY 9/10 @3:30 PM *****CONTACT MIKE via Slack if needed********

Finish User stories by Friday. Work on them at Thursday meeting.

Action items

- work on architecture
- work on creating user stories
- PROJECT PLAN ASSIGNMENT

Recording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2020-09-15 Meeting notes

Date

15 Sep 2020

Attendees

- Christopher Butler
- Tabitha Holloway
- Mike Flamm
- Itai Kumengisa

Goals

Discussion items

- User story about multiple vehicles is lowest priority
- Mike okayed user stories
- Maybe try scheduling by working backwards from project due dates
- Mike is okay with release schedule
- PDF has vehicle info and weights picture as one page and additional vehicles and additional formulas with titles as additional pages. Show variables and formulas.

Next meeting at Thursday at 3:30PM

Probably meet at 11 AM on Friday

Action items

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2020-09-16 Meeting notes

Date

15 Sep 2020

Attendees

- Christopher Butler
- Tabitha Holloway
- Bill Kidwell
- Itai Kumengisa

Goals

Discussion items

Questions to ask:

- not a question, but let him see our project plan so far and see if we are on the right track
- We have a spike in the first half of our sprint 1, is this appropriate, or should we use a sprint 0?
    - how long is a sprint 0? 2 weeks?
- Are there any other things that should be done for quality assurance or the definition of done?

NOTES:

- things at MVP level are user stories
- how are we going to break down the user stories into iterative tasks?
- figure out how to break down generate reports
- release 1:
    - search vehicle
    - display results and other vehicle info
- release 2:
    - edit vehicles weight
- release (edit weights) in middle of sprint 2
- get clarity on top 3 priorities of the additional formulas
- need user story ("flushed out") for being able to update the way people can search for vehicle
    - criteria for the searching being correct
- put task under the user stories
- dont want to use "as a user" in the user stories
    - use "as an investigator"
- done criteria is light
    - specific errors considered

Action items

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2020-09-22 Meeting notes

- no neg numbers for formulas
- files in google drive are for UI
- contact Raifa for the QT and for the API (through SLACK)
- contact Patrick for MySQL and code explanation (email: patricktrue81@gmail.com)
- A RESTapi we wont need, but we will need a programable API

2020-09-25 Meeting notes

Date

25 Sep 2020

Attendees

- Christopher Butler
- @Patrick True
- Tabitha Holloway

Goals

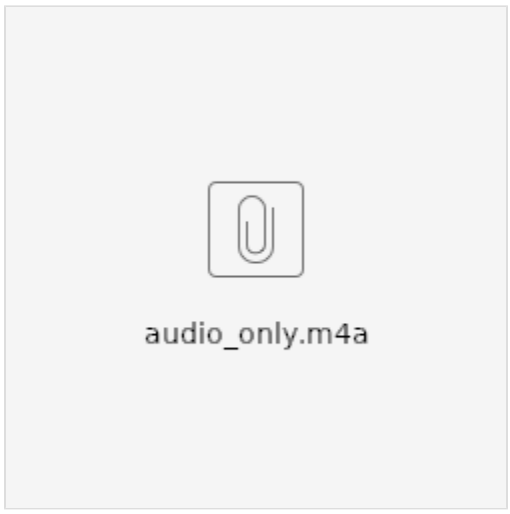
- Figure out how to get Qt and MySQL to run the previous team's application
- Get an overview of the code

Discussion items

- Patrick was using MySQL 8.0 C++ Connector
- MYSQL version: 8.0.9
- He thinks we need libmysql.dll
- Tried some tutorials on how to fix it, but no luck
- https://developer.microsoft.com/en-us/windows/downloads/windows-10-sdk/ to try installing Windows SDK to fix the problem with Qt not finding stddef.h
- database.h and .c are for connecting to database and querying
- mainwindow.cpp is divided into the tabs in the UI with the functions for the tab listed in each section
- accidents tab was supposed to get location/weather for accident
- vehicles tab, select year, which gets makes for that year, then query db for model for that year and make, then same for the trim
- add vehicle, combobox adds that vehicle by year, make, model, trim, and name
- using color or number of doors to distinguish vehicles
- problem now: need to save added vehicle to db
- occupants: combox display list of what you have, to start, click button and fill out information. combobox for injuries, text box to describe it
- associates: no vehicle (then assume as pedestrian), if yes (then you can choose and specifiy in combobox to the types of cases i.e. what kind of car, seatbelts, motorcyle not figured out) submit adds to drop down box
- witnesses: drop down box, insert info, add to combobox
- diagram: related to investigating officer has photos/pics to upload to the report
- 4 pages related to something
- report: particualar formatt to generate the format (for evidence)
- our project:
    - vehicles tab
    - did you have edge cases for out of order search? **A:** Year is populated first
    - did u populate info from search results? **A:** once find trim, all data populates into the tabs below, some will be blank, some have to be filled in manually
    - which part of the code populates data in those tabs? **A:** ~~mainWindow.cpp, on vehicle year combox, curr index changed, queries to change year, make, and, model.~~ vehicle.cpp, gets info and db creates array, get the particular thing and puts it here.
    - names on .cpp may be confusing
    - vehicles.cpp is a group of them. implement an array of vehicle.cpp
    - vehicle stiffness, looks like formulas we r calc. did they work on any of that? **A:** all we did was populate it with what is in the db
    - Mike said he wants us to populate weight of vehicle, and user can edit the weight, in which calcs are done, any fields that needed to be calculated from the db? **A:** everything was straight db. past: create a UI and a little bit of connectivity to db

website here that has c connector for sql:

https://downloads.mysql.com/archives/c-c/



Action items

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2020-09-30 Meeting notes

Date

30 Sep 2020

Attendees

- Christopher Butler
- @Austin
- Tabitha Holloway
- Itai Kumengisa

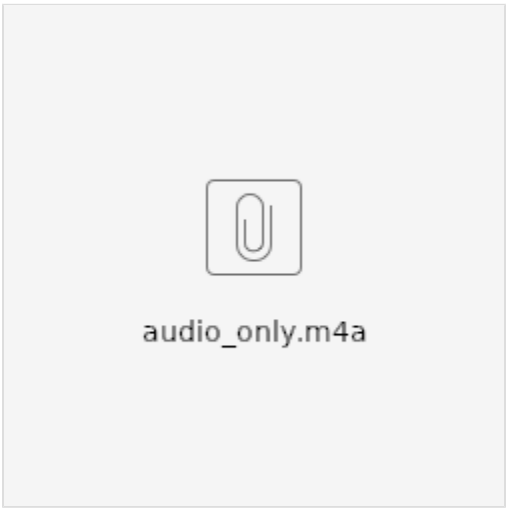
Goals

- Install database on local machine
- Find out how database is structured

Discussion items

- compile and run the installer code to install
- compile installer.cpp
- how to view db?
    - should be able to view db using mysql workbench or mysql command line

- Need MSVC Build tools 142 x86/64 and Visual Studios 2019
- INSTALL THIS: msvc v142 toolset x86/64
- FOR VISUAL STUDIO: https://azure.microsoft.com/en-us/products/visual-studio/
- Put Delta V followup installer questions in subject line for contacting Austin
- Itai and Tabitha will work on database. Chris will work on calculating formulas.
- Meeting on Thursday at 3;30 PM
- Meeting on Friday at 11 AM



playback.m3u

Action items

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2020-10-06 Meeting notes

Date

06 Oct 2020

Attendees

- Christopher Butler
- Itai Kumengisa
- Mike Flamm
- Tabitha Holloway

Goals

Discussion items

Send Cameron a message about why UI doesn't look right. Let Mike know if Cameron does not respond tonight.

Mike asked Susan about missing center of mass solution boxes.

Notes from meeting with Susan:

- Weight solution boxes are interactive boxes that we have to create
- Add boxes to VehicleModelWeight widget in Vehicle Lookup form. Susan will send car picture to put tire weights next to.
- Separate Solutions widget in formulas layout that needs boxes added to it that Susan will make and send to us.

Action items

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2020-10-13 Meeting notes

Date

13 Oct 2020

Attendees

- Christopher Butler
- Mike Flamm
- Itai Kumengisa
- Tabitha Holloway

Goals

Discussion items

- Discussed results of previous weeks work
- Itai was able to get the vehicle search to fill in boxes. Not all boxes get filled for every search.
- Cameron is the one who is going to take our code and integrate it with Delta V's drawing tool.
- Mike will send us the databases that he has. He will give links to all three databases: the two original databases and the merged one that we have.
- Check to see if merged database lost information from the other two databases.
- fTrackWidth is front, rTrackWidth is rear. Measured from center of tire to center of tire. Doesn't matter which track width we use in formulas, but always use the same one. Mike said just use front track width.
- Left side weight is total weight on both left (driver side) tires.
- 60/40 weight distribution is 60% on front 40% on back. 30% on each front tire. 20% on each back tire
    - Left side weight and right side weight are both 2000 lbs.
- Need to be able to add additional weight to tires to account for people in vehicle.
    - If add 200 lbs to left tire, then 1400lbs on left front and 800lbs on left rear. Total is 4200lbs instead of 4000lbs.
    - User can change a weight and we just need to update the total weight.
- ww is weight of front wheels raised and wf is weight of front wheels static in CoM ht.
- Use everything in inches or lbs
- CoM horizontal and width can all be autopopulated. CoM ht needs user to enter ww and ht of wheels raised

Action items

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2020-10-20 Meeting notes

Date

20 Oct 2020

Attendees

- Christopher Butler
- Mike Flamm
- Itai Kumengisa
- Tabitha Holloway

Goals

- Show Mike what we have with formulas
- Get feedback

Discussion items

- UI did not already have a box for Ht of Cntr of Frt Wheels, Ht of Cntr of Rear Wheels (raised), or Weight on Frt Wheels (Rear raised) for CoM Ht formula. Where do you want those boxes on the UI? Leave them where they are
- Change CoM Lat to CoM Width

Action items

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2020-10-27 Meeting notes

Date

27 Oct 2020

Attendees

- Christopher Butler
- Mike Flamm
- Tabitha Holloway
- Itai Kumengisa

Goals

- Update Mike about what we currently have
- Discuss the next steps for this week

Discussion items

- Database status
    - Problem with data in wrong format for database
    - Should be able to finish this weekend
    - Model and Trim are combined in same field for one of the databases
    - Users will need to install the databases on their own computer before using the software.
- Report generation is done
- Unit tests are being worked on
- Need to make Developer's notes
- Mike will make GitHub for us to add our code to, so Cameron can check out the code and ask questions.
- I will compile a new stand alone application for Mike to test.

Action items

- Finish up the database this weekend
- Work on the unit tests
- Make Developer's Notes
- Add code to GitHub from Mike
- Send Mike new stand alone executable

2020-11-03 Meeting notes

Date

03 Nov 2020

Attendees

- Christopher Butler
- Mike Flamm
- Itai Kumengisa
- Tabitha Holloway

Goals

Discussion items

- Add example weight distribution to weight distribution label (front/back)
- Mike will send me example numbers for CoM Ht

Action items

- Add example weight distribution to weight distribution label (front/back)
- Give Itai file path to add image to application

2020-11-10 Meeting notes

Date

10 Nov 2020

Attendees

- Christopher Butler
- Tabitha Holloway
- Itai Kumengisa
- Mike Flamm

Goals

Discussion items

- Pushing files to new repository (especially when the files are too big to upload directly to github)

  1. make a repository without a readme on github website
  2. go to the directory with the files
  3. git init
  4. git add .
  5. git commit -m “message”
  6. git remote add origin <repository url>
  7. git remote -v
  8. git push origin master

Action items

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2020-11-13 Meeting notes

Date

13 Nov 2020

Attendees

- Christopher Butler
- Itai Kumengisa
- Tabitha Holloway
- Bill Kidwell

Goals

Discussion items

- Formula calculations should have been separated from interfaces to allow re-usability and improve maintainability
- Could have done a vehicle class that knows its information and then use calculations on values in that class instead of from the UI
- Could have moved pdf generation outside of class and pass it the vehicle class object with all the info
- For presentation, when showing tests, keep it more at a higher level, like these are the types of tests we did, and here are the defects we found, etc. Don't need extreme detail.

Action items

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2020-11-17 Meeting notes

Date

17 Nov 2020

Attendees

- Christopher Butler
- Mike Flamm
- Itai Kumengisa
- Tabitha Holloway

Goals

Discussion items

- End of project
- Mike will delete repository and make a fresh one for the final code

Action items

- Add final code and documentation to new GitHub repository

Meeting Notes 10-13-2020

participants

- Itai Kumengisa
- Tabitha Holloway

talking points: