

Meeting Minutes

BOULDER APPLE TREE PROJECT

Meeting 09/17/19 with Sponsor (14:00-14:30)

Attendance:

Erika, Jason, Cassidy, Sky, Chakrya, Thomas, Javier, Dennis.

Agenda:

1. Sponsor Organization MISSION statement
 - a. Rediscovering Boulder's Apples Heritage Together
2. Sponsor's VISION for this project
 - a. Preserving and protecting the heritage apples we have in Boulder county. We have some apple trees that are the last left in the US.
3. Components of the Project Charter
 - a. Looking for an interactive map. Currently there are data points and they want an interactive map, being able to click on it and get a picture of the apple, the heritage information, a picture of the tree, etc

Sponsor created a Google team drive to share everyone's information and also information about the project such as apple locations and color code.

- They might want us to create the interactive map so museums and the website can provide the map. They want the same look. We would have to create a back-end data server.
- Gothic, CO (town close to Crested Butte) has a data-base that contains all the info for years about weather and dirt conditions etc, so wants something similar.
- We need to provide info to know the budget we would need to be able to have the back-end
- Website needs to work on mobile too.
- This project is your website - NO APP
- She would like to meet biweekly
- Branding - looks needs to stay cohesive
- Project will be expandable to other cities, maybe even states, but for now is just Boulder.
- Website is currently in SquaredSpace - Sky wants to know who owns the website/code.
- She will give us the data that is relevant to what they want us to do.

Project charter - We need to meet next week to work on that and have it done.

Tasks:

1. Bring ideas for next week's meeting and if attended the event, how was the experience.

Saturday 21st event happening to know more about APPLES!! She'll send the information

Meeting 09/17/19 with TA (17:15-18:15)

Attendance:

Erika, Jason, Cassidy, Sky, Chakrya, Thomas, Javier, Dennis

Agenda:

1. Schedule weekly meetings
2. Project Charter
3. Work (Agile?)
4. Software to keep track of progress (Decided in GitHub)

Notes:

- We are going to meet every week with the TA and team and biweekly with the sponsor.
- 2 week sprints and Demos
- We need a team lead who's going to do documentation with Cassidy's help (Documentation Chair). (setting up rooms for meetings and all documentation on GitHub and stuff be accurate and up to date)
- Thomas tech lead - (set plans and lead the development and deliveries)
- Correspondence Secretary - Sky
- Scrum Master - Erika

Scope:

- Limit of work 7 hours per week including meetings with TA
- Slider to modify the timeline of the maps. So for example going from 1970 to current time.
- 3d space for each apple display
- Search/filtering system (filter by year, species, etc)
- Data cleaning
- Work with open street map
- Extend current website
- API

Tasks:

- EVERYONE - get familiar with the data (Research)
- Bring some ideas
- For next meeting setting up the tasks for each sprint

Meeting 09/24/19 with Sponsor (14:00-14:30)

Attendance:

Erika, Jason, Cassidy, Sky, Chakrya, Thomas, Javier, Dennis

Agenda:

- Software to use
 - Front end - React? Leaflet
 - Web Server - NodeJs/Express
 - Amazon EC2 instance
 - <https://aws.amazon.com/ec2/pricing/>
 - Database - PostgreSQL + PostGIS
 - Amazon RDS
 - <https://aws.amazon.com/rds/postgresql/pricing/>
- Google Drive??
 - Link to one for us - <https://drive.google.com/open?id=142v25WVvtqo2uw5nm7mYnoNtKKPLH5vL>
 - Can share if they/we want
- Database??
- Costs for grants (see the links above)

Tasks:

- Get Budgets

Notes:

- Upload minutes to shared team Drive
- Tree tag number on photos
- Cut up apple, apple, tree photo for each tree
- This year poor year for fruit
- Amy made sample data sheet for us
 - Tree tag, what believed from DNA test, lat/long, height, dripline (how wide canopy is), how many fruits, quality of seeds
- Last week we had mentioned about Databases
 - SQL - last year/year before, created an app - cost \$100 a year
- Discussed about AWS
- Charter
- Meetings w/ Amy once a month
- Private lands don't want exact location to come up on map
 - Not lat/long on the map, only data point
- End result: a map, click on a point up will come up with apple, tree, info about tree, DNA analysis - she can give us info about how the DNA process goes

- More info: variety, fire blight, thousands of fruit
- Making the data points apples
- There are unknowns in the dataset
- Historic maps - not a one for one map for gps so can guess where the points should go - no lat/long
- Most biologists do R, some do Python
- Amy working on grant proposal - up to \$5000 - not sure
 - Donations on website - access to those funds
 - Funds from Niwot
- Prepare for Amy bare bones, nicer budget, and pie-in-the-sky budget
- Feedback on scope
 - Under scope, include that we're making locations not exact and not disclosing exact location through the map
- Natural History Museums
 - Many have various touch screen displays, hoping an iPad would be great so they could swap it out if it was messed up
- Engagement in particular trees when brought iPad to FRCC
- Apple Blitz
 - Went into open space, 1/2 of trees tagged in 2017 are gone
- Next meeting: October 22nd, 2pm, Ramley Bio N240
 - Tasks to do before next time:
 - charter signed and finished - sent to Amy
 - Budgetary reqs finished
 - Maybe some local development complete to show
- Apple Symposium - Dec 9th or 10th
 - Students taking intro bio from an apple perspective

Meeting 09/24/19 with TA (15:00-16:00)

Attendance:

Erika, Jason, Cassidy, Sky, Chakrya, Thomas, Javier, Dennis

Agenda:

- Discuss Charter
 - Discuss FBD
- Set up weekly sprints
 - Mock ups
 - Beginning research for backend/frontend
- Divide into Backend/Frontend teams?
- Slack communication
- Probably stick with SQL

Tasks Sept 24 → Oct 8:

- Finish Charter / Scope
- Architecture
 - AWS
 - SQL Database
 - POSTGIS
 - Leaflet - JS for Web-maps
- Budget
 - High / Med / Low Costs
- **Start on Development**
- Testing
 - TDD
- Heroku for deployment?

Front End: Task → Build Mockups

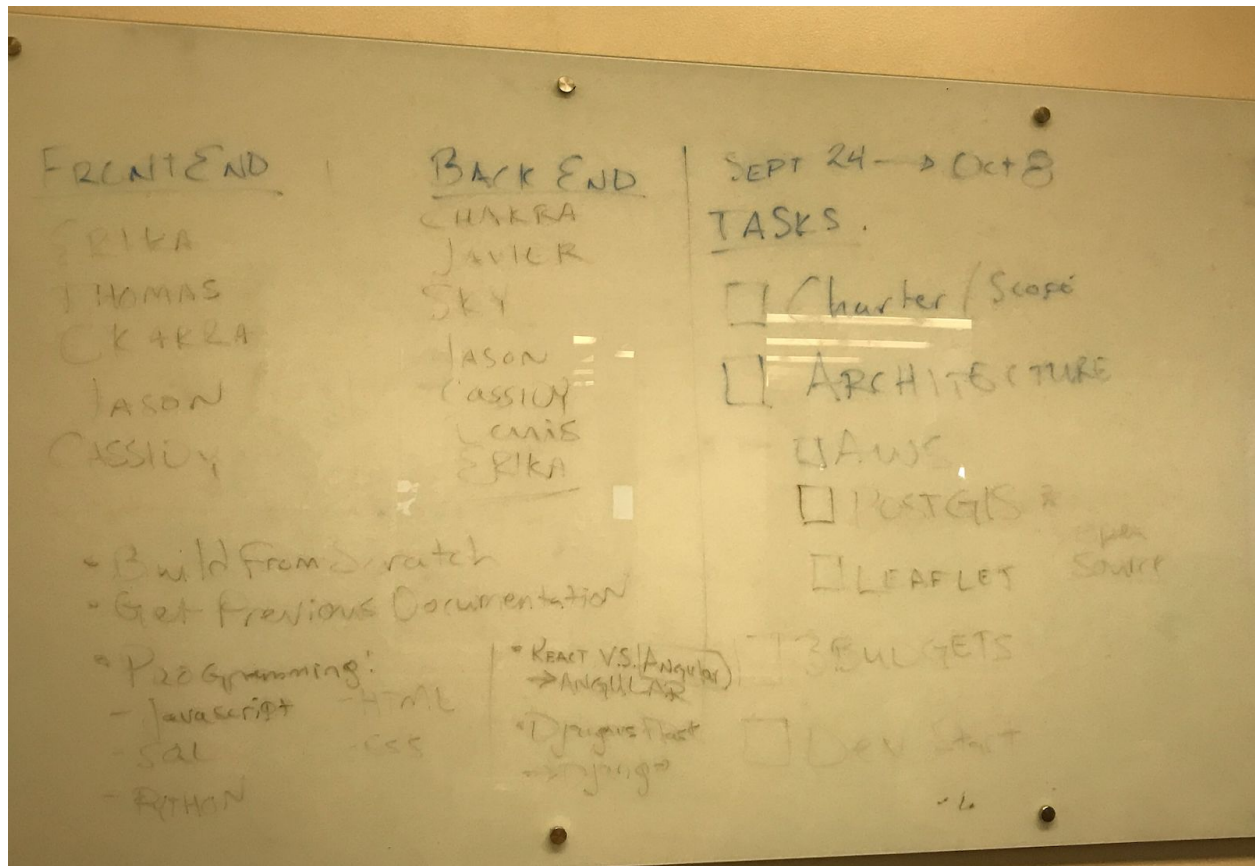
- Erika
- Thomas
- Chakrya
- Jason
- Cassidy

Back End:

- Javier
- Sky
- Jason
- Dennis
- Cassidy
- Erika

Team Tasks:

- Build from scratch
- Get previous documentation
- Programming
 - Javascript
 - Sal
 - Python
 - HTML / CSS
 - Angular
 - ~~React~~
 - Django
 - ~~Flask~~



Charter Progress:

- **Need to update FBD and CONOPS**
- Finished Team interest and skills
- Rough draft of Resources section completed

TShirts & Team Name:

- Someone come up with a design for tshirts for fun - submit on slack
- Eden Crashers

Next Meeting:

- October 22nd @ 14:00 with the sponsor
- Next team meeting 1st of October @5:15.

Meeting 10/01/19 with TA (17:15-18:00)

Attendance:

Erika, Jason, Cassidy, Sky, Chakrya, Thomas, Dennis, Javier

Agenda:

- Discuss charter
- Discuss what we learnt so far from last weeks.
- Project Status Report

Charter Progress:

- Need to add more functional requirement
- We need to send project charter to the sponsor on Thursday
- We need to explain the FBD diagram to the sponsor

What we learned from last weeks:

- Most of learn learnt about Django, Angular,

Task for next week:

- **Thomas** - look more into Django and PostGIS, FBD, functional reqs
- **Erika** - Create project on Github with the tasks that need to be done by sprint
- **Dennis** - Work on User cases in a charter
- **Cassidy** - Database schema
- **Jason** - Powerpoint
- **Chakrya and Javier** - Powerpoint about Django
- **Sky** - Budget. We need the 3 different budgets. Charter will contain the prices, spread sheet will contain details.
 - <https://aws.amazon.com/ec2/instance-types/>
 - <https://aws.amazon.com/ec2/pricing/reserved-instances/pricing/>
 - <https://aws.amazon.com/rds/postgresql/pricing/>
 - <https://aws.amazon.com/rds/reserved-instances/>

Meeting 10/08/19 with TA (17:15-18:00)

Attendance:

Javier, Jason, Cassidy, sky, Dennis, Erika, Thomas, Chakrya

Agenda:

- Went over retrospects about tasks for the project.

- Team activity to better understand each other.
- Discussed tasks for next week's presentation and mockup prototype.
- Discussed tasks about what each person was responsible for this week.
- Discussed for next week's meeting half of meeting is working on prototype and half of the time we discuss each others prototype.
- Meeting for next week on Tuesday at 4:30pm for rehearsal presentation.
- Presenting on Thursday.

Charter Progress:

- Completed charter

What we learned from last week:

- Focusing on how to make programs interact with each other by learning more about languages and worked on updating the charter and worked on budget proposals.

Task for next week:

- **Thomas** - mockup prototype and work on powerpoint
- **Erika** - mockup prototype and work on powerpoint
- **Dennis** - mockup prototype and work on powerpoint
- **Cassidy** - mockup prototype and work on powerpoint
- **Jason** - mockup prototype and work on powerpoint
- **Chakrya and Javier** - mockup prototype and work on powerpoint
- **Sky** - mockup prototype and work on powerpoint

Meeting 10/15/19 with TA (16:30-18:00)

Attendance:

Javier, Jason, Cassidy, Sky, Dennis, Erika, Thomas, Chakrya

Agenda:

- Working on presentation

Task for next week:

- **Thomas** - mockup prototype and work on powerpoint
- **Erika** - mockup prototype and work on powerpoint
- **Dennis** - mockup prototype and work on powerpoint
- **Cassidy** - mockup prototype and work on powerpoint
- **Jason** - mockup prototype and work on powerpoint
- **Chakrya and Javier** - mockup prototype and work on powerpoint
- **Sky** - mockup prototype and work on powerpoint

Meeting 10/22/19 with Sponsor (14:00-14:30)

Attendance:

Erika, Jason, Cassidy, Sky, Chakrya, Thomas, Javier, Dennis

Agenda:

- Discuss Charter
 - "Charter Looks Fantastic"
 - Amy is going to sign the charter and send it back
- Discuss budget proposal
 - AWS purchases will take place in January
 - Amy is going to work on making sure they have money to pay for AWS
- Show Mock-ups
 - Amy wants us to use filters of
 - Variety
 - Tree Diameter or Height
 - Public / Private
 - If N/A assume private
 - Fire blight
 - Use / plant type
 - Go by Final Cultivar - also use synonym which is what the variety is called out of the state
 - Likes the tree idea where there exists clusters of trees
 - ****DO NOT**** include Lat/Long for private property
 - Amy is going to find maps for us to use the slider
 - Amy also has aerial photos, from the 1930s
- Discuss progress
 - Amy has greyed out the cells of information that she does not want to appear in the application
- **NEXT MEETING WITH AMY:**
 - Tuesday November 19th @ 2:00

Meeting 10/22/19 with TA (17:00-18:00)

Attendance:

Javier, Jason, Sky, Dennis, Erika, Thomas, Chakrya

Cassidy NOT HERE

Agenda:

- Setup daily standups for next week
- Split up into frontend/backend teams
 - Frontend lead - Erika, Backend lead - Sky
- Work on requirements document:
 - <https://docs.google.com/document/d/1JCm3sKw8-aiWqA2oVm2JWWp3UpNOpqOPOxZuwB-7Ua0/edit?ts=5daf9444#>
- Assigned work on requirements documents

Meeting 10/31/19 with TA (8:00-9:00)

Attendance:

Javier, Jason, Dennis, Thomas, Chakrya, Cassidy, Erika

Sky not here.

Agenda:

- Retro: Staw, Sticks, Bricks
 - What is holding together by a thread vs what is solid in our group
 - Biggest issues seem to be derived from planning
- Divide jobs for everybody's responsible.
- Having planing what have to be done from today until April in the table
 - Front end teams' responsibility:
 - Figma design : Erika
 - Angular : Erika, Thomas
 - Class design : Thomas
 - Leaflet : Chakrya
 - Unit Test : Chakrya
 - Back end teams' responsibility:
 - Clear Data, database schema : Cassidy
 - Python API : Dannis, Jason
 - Server and AWS : Jason
 - Unit Test : Javier
 - Integrate Design : Sky

| Oct | Design Front End | Build FE | Build BE | Integration | Deploy | | Apr |
|-----|------------------------------------|--|--|--|---------|--|-----|
| | Nov 9: Figma License: Jason | Jan 28: Angular: Erika & Thomas | Nov. 12th: Clean Data Nov 19th: DB Schema: Cassidy Chakrya | March 17: More Tests: Chakrya & Javier | April 1 | | |
| | Nov 9: Figma Design: Erika | Dec 10: Class Design: Thomas Erika | Dec 21: Python API: Dennis, Jason, Javier | | | | |
| | Nov 9: Integrate Design: Sky | Feb 11: Leaflet: Chakrya | Hitting End Pts: Erika & Dennis | March 24: General Int.: Dennis & Jason Erika & Thomas | | | |
| | | Feb 25: Unit Test: Chakrya | BE Server & AWS: Jason, Sky | | | | |
| | | | Dec 3: Opt Data: Cassidy, Chakrya Dec 24: Comm of DB Cassidy | | | | |
| | | | Feb 11: Unit Test: Javier | | | | |

Meeting 11/07/19 with TA (8::00-9:00)

Attendance:

Javier, Jason, Sky, Dennis, Erika, Thomas, Chakrya, Cassidy

Agenda:

- Sky and Cassidy presented AWS technology
- Javier and Dannis presented PostgreSQL
- Sky and Cassidy presented AWS budgeting
- Next semester, CSCI4818 will have on Wednesday 5:30pm only
- Pepr evaluate on December will affect everyone's grade
- Next week, Front end will present on Angular
- Back end will work on pipeline
- We discussed to pick t3.nano for testing

Meeting 11/14/19 with TA (without TA) (8::00-9:00)

Attendance:

Javier, Jason, Sky, Dennis, Thomas, Chakrya, Cassidy, Erika

Agenda:

- All members took Meyers-briggs test and reported their results
- Thomas leads group discussion about personality types
- Talk about planning modes.
- Erika's AngularJS presentation
- Thomas's Node presentation
- Chakrya's Leaflet presentation
- Thomas and Chakrya Leaflet example
- Discuss T-shirt Designs

Tasks:

- Sky and Chakrya: Create Database Table
- Thomas and Erika: Class Diagram
- Cassidy and Chakrya: Data Optimization and Cleaning
- Jason and Dennis: Define Backend Calls

Modified 11/14/19

| Oct | Design Front End | Build FE | Build BE | Integration | Deploy | | Apr |
|-----|------------------------------------|--|--|--|---------|--|-----|
| | Nov 9: Figma License: Jason | Jan 28: Angular: Erika & Thomas | Nov. 12th: Clean Data Nov 19th: DB Schema: Cassidy Sky | March 17: More Tests: Chakrya & Javier | April 1 | | |
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| | Nov 9: Integrate Design: Sky | Feb 11: Leaflet: Chakrya | Hitting End Pts: Erika & Dennis | March 24: General Int.: Dennis & Jason Erika & Thomas | | | |
| | | Feb 25: Unit/E2e Test: Chakrya | BE Server & AWS: Jason, Sky | | | | |
| | | | Dec 3: Opt Data: Cassidy, Chakrya Dec 24: Communication of DB Cassidy | | | | |
| | | | Feb 11: Unit/E2e Test: Javier | | | | |

Meeting 11/19/19 with Sponsor (2:00-3:00pm)

Attendance:

Javier, Jason, Sky, Dennis, Thomas, Chakrya, Cassidy, Erika

Agenda:

- Demo front-end
- Budget
- Cleaning Data
- Date to deploy

Notes:

- We need to put N/A wherever we don't see information. Example Genetics and Spices are okay to be N/A
- Property - needs to be private if no info.
- Species always domestica for the most part
- Variety is okay N/A
- Genetics can always be Malus
- Fruit is okay to have N/A
- We got 15 thousand dollars from the museum and maybe 5 thousand extra from the department to maybe work in the mobile app for next senior project.
- **August 2020** will be the exhibit of our project.
- **December 7**, the symposium.
- Talked to Amie about going to the smallest AWS server. The \$1 thousand might be a good one to go with.
- Museum and EBIO loved them mockups we did.
- Amie met with the archaeologist for the map and they found all the territory structure that matches with the apple trees. Working with them to get the history map.
- IMPORTANT - don't forget demos with the side white bar with information

TASKS:

- Everyone do Moodle to find meeting times

Meeting 11/19/19 with TA (5:00-6:00pm)

Attendance:

Javier, Jason, Sky, Dennis, Thomas, Chakrya, Erika

Cassidy NOT HERE

Today:

- Game
- Stand up- We each said what we completed and plan in doing.
- Tshirts - we're gonna go with black shirts with Javier's design, talked about sizes and submission to Alan to get the tshirts.
- Talked about how we have to write a one page evaluation.
- Put everything on the Repo

Tasks:

- Sky - back end Gantt and Thomas - front end Gantt
- Erika Data flow diagram - front end
- Jason Data flow diagram - back end
- **DUE before end of semester**
- Each person slides on presentation for December

Meeting 12/03/19 with TA (5:00 - 6:00pm)

Attendance:

Jason, Sky, Dennis, Thomas, Chakrya, Erika, Cassidy, Javier

Agenda:

- Go over presentation
- Review documents on GitHub
- Symposium

Today:

- Stand up (Did before, going to do, blockers)
- Game
- Went over presentation
- Worked on files that needed to be uploaded to GitHub
- Decided to add the specs of more features in the Project Reqs docs
- Added tasks to Project Board on GitHub
- Assigned stories with points to each team member

Tasks:

- Check the Project Board to complete your tasks

Meeting 12/10/19 with TA (5:00 - 6:00pm)

Attendance:

Jason, Sky, Dennis, Thomas, Chakrya, Erika, Cassidy, Javier

Agenda:

- Wrap up

Today:

- Stand up
- Finish Project Req Docs before the end of the semester
- Finish final essay before the end of the semester (DONT SCREW IT UP)

Tasks:

- Check the Project Board to complete your tasks
- 15th January - First Class, Following week is the first meeting