Sprint 2 Planning Document

RESERVOIR PLANNING TOOL By The Transforming Drainage Project

Sprint Overview

During this sprint, we intend to begin piecing together our individual components that we created last sprint. After this sprint we will have a client that will display multiple graphs all of which should be accurate by the project owner's standards. Along with this we will be adding the CSV file upload feature during this sprint and integrate its contents into the Transforming Drainage Project algorithm. Lastly during this sprint we will be deploying our application on Amazon Web Services.

Meetings

- Tuesdays at 4:30-6:30
- Scrum master Drew Atkinson

Risks and Challenges

Some of the biggest challenges that stand in our way for this sprint is learning to properly test the components we have worked on thus far, as well as continuing to link all of our components together to our platform. During this sprint we will be staying in close contact with our project owners so that we can be sure all criteria for the project are being met, and to avoid any confusion that may cause us to waste time. Another challenge our team faces is deploying our application on AWS. This is something we are not familiar with so there may be problems that arise during this process. Lastly, we will also have to maintain our strict management routines as we did in sprint 1 in order to test and deliver all selected user stories.

Sprint Detail

User Story #1

As a user, I would like to upload my own data to use

Task	Owner	Time
Create UI for uploading CSV files.	Jonah	2 hours
Post request with CSV	Jonah	5 hours
Direct CSV through parsing and into TDP Alg	Jonah	5 hours
Handle CSV inputs and substitute their contents with the database's.	Clayton	4 hours

Acceptance Criteria

A user can make UI selections to be able to input their own CSV data.

Add CSV to POST request and send to backend

Once the CSV is on the backend, verify it, supplement it with TDP's data, and send it to TDP's Algorithm

User Story #2

As a user, I would like to download the results of the calculated data

Task	Owner	Time
Assemble the output of the algorithm into the CSV file.	Drew	10
Add input values if the user uploaded their own file	Drew	5

Acceptance Criteria

Given the output of the algorithm, a CSV file is created with the daily output of the algorithm.

Given this CSV file, a user can choose to download it along with the graphical output

If the user uploaded their own input CSV, the output CSV will be added to it and passed back to the user.

User Story #3

As a user, I would like the project to have as few bugs as possible

Task	Owner	Time
Learn node testing framework	Jonah	1 hour
Learn python testing framework	Jonah	1 hour
Test DB setup, update, and remove	Jonah	8 hours
Test node DB exports	Jonah	4 hours
Test UserParse.js	Jonah	4 hours
Reassess potential bugs pointed out by project owners in TDP algorithm	Clayton	2 hours
Acceptance Criteria		
Functional and unit testing added for DB setup.		
Functional and unit testing added for node DB exports.		
Functional and unit testing added for UserParse		

User Story #4

As a project administrator, I would like the database to be hosted on AWS

Task	Owner	Time
Create a MySQL server on an AWS instance	Drew	3 hours
Initialize Database with Daily Data	Drew	2 hours
Acceptance Criteria		
There is an instance of MySQL running on an AWS server.		
Given that the instance of MySQL is running, it is accessible with proper authentication.		
The database is initialized with our script and all of the daily data.		

User Story #6

As a project owner, I would like the website to be deployed.

Task	Owner	Time	
Set up a web server using Elastic Beanstalk Drew		8 hours	
Updates with Git will deploy to the server	Drew	2 hours	
Acceptance Criteria			
A web server is running on AWS with the current version of our application.			
It is easy to deploy the web server when the Github remote is updated.			

If the Node server crashes, it will automatically restart and be constantly up.

User Story #5

As a user, I would like to be able to interact with graphs.

Task	Owner	Time	
Organize TDP algorithm outputs for use by multiple graphs.	Clayton	10 hours	
Improve JSON parsing on client side	Vritant	4 hours	
Allow user to see multiple graphs	Vritant	10 hours	
Write project owner's test cases, run them, and correct outputs as needed.	Clayton	7 hours	
Work with project owners on test cases and expected outputs.	Clayton	3 hours	
Learn testing framework and use it to automate new test cases.	Clayton	4 hours	
Acceptance Criteria			
Multiple Graphs can be generated by the user			

Outputs of these graphs are scaled nicely and display accurate data.

User Story #6

As a user, I would like the website to be responsive and adaptive

Task	Owner	Time
Improve UI to work on Tablets	Vritant	6 hours
Change pixel bound containers to be responsive	Vritant	5 hours
Add animations to UI components	Vritant	5 hours
Acceptance Criteria		
Website UI looks good on tablets and desktops		
Animations work and help better user experience		

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Backlog	_	As a user I would like to open the website
		As a user, I would like to open the website
	-	As a project administrator, I would like to initialize the database
	-	As a user, I would like to be able to use Transforming Drainage Project's
		data
	₽	As a user, I would like to select a location on a map
	₽	As a user, I would like to see graphical representations of data
	\Box	As a user, I would like my uploaded data to be calculated and shown on a
		graph
	\Box	As a user, I would like to have my own data interlaced with Transforming
		Drainage Project's data
	\Box	As a user, I would like to upload my own data to use
	\Box	As a user, I would like to download the results of the calculated data
	\Box	As a user, I would like the project to have as less bugs as possible
		As a project administrator, I would like the website to be secure
	\Box	As a user, I would like to interact with the graphs
		As a user, I would like instructions on how to use the website, and how to
		upload my data
		As a project administrator, I would like the server to be set up
		As a project owner, I would like the website to be deployed.
		As a user, I would like to switch amongst various data sets

As a project administrator, I would like the database to be hosted on AWS

□ As a user, I would like the website to have good user experience
 □ As a user, I would like the website to be responsive and adaptive