

SE 492 Biweekly Report
2/24/2024 - 3/30/2024

sdmay24-41

Griffith Buck Rose Website

Lindsey Smith: Client

Mai Zheng: Advisor

Amy Hartjen: Front-End Lead / Communications

Erik Sandberg: Database Lead

Devin Amdahl: Scrum Master / DevOps

Patrick Origer: Research / Third Party Manager

Greg Carter: Connections Master

Logan Schmit: Backend Helper

Alex Reynolds: Testing Manager

Report Period Summary

We have not had a report for a month, so the accomplishments we achieved this month are as follows:

- Strong progress on finalizing the database. Most tables are finished & have data in them. New feature's functionality requires a new table which needs to be made.
- Backend Refactoring is in good progress. Additional controllers need to be made for Admin features & various features for Rose & Home page.
- CI/CD for our main branch was completed.
- Several small errors were corrected, such as URI encoding for certain roses, using proper commas and conjunctions for descendants and parents, spacing of pages across different screen resolutions, undesirable rose thumbnails, etc.
- RHSCC colors and vendor information were added to the individual rose pages.
- Informational pages now dynamically retrieve their content from the DB to allow for admin changes.

Past Report Period Accomplishments

Erik Sandberg

- Created Vendor information & filled database with said information
- Started Admin page front end functionality
- Compiled Gallery images by flower & sorted into each folder
- Finished Creating & Filling all tables from previously defined ER diagrams
- Compiled the Parents & Descendants tables into a unified 'Ancestry' table
- Created design for database table for the feature of displaying flower bloom dates.

Devin Amdahl

- Created Paragraph.java, ParagraphConstants.java, ParagraphRepository.java, ParagraphService.java, and ParagraphController.java to allow frontend to retrieve page content dynamically
- Updated Image.imageID, Thumbnail.imageID, Vendor.vendorID, and BuckVendor.vendorID to be type String instead of Integer to match changes in the DB
- Emailed ETG/ETS about integrating with Okta
- Created .gitlab-ci.yml and verified that the build and deploy stages worked for backend and frontend
- Identified and corrected incorrectly named thumbnail directories, thumbnails, and images
- Added RHSCC Colors to individual rose pages, added correct logic for commas and conjunctions for Descendants and Parents, added logic to encode brackets with their corresponding URI values correctly, and added logic to replace any null values with "N/A"
- Changed and/or edited the thumbnail images for Serendipity and Allamand-Ho, added the placeholder image for roses without a thumbnail to the DB, and updated the BuckImage entries for these roses
- Added vendor information to individual rose pages and helped identify and correct spacing issues across different browsers and screen resolutions

Amy Hartjen

- Create csv files for paragraph information and began implementing those pages to database information instead of hardcoded
- Stylized the fluid key filter and added the glossary link to that stylization
- Fixed/stylized individual rose pages by containing image size, putting information into correct columns, creating consistent font style, adding map and location as well as a divider to better organize information
- Create routing for admin page as well as created a login component
- Fixed the team website(spacing issues as well as incorrect files/info shown)

Patrick Origer

- Integrated Weather API into website for recalling historical temperature data
- Added interactive map that determines the longitude and latitude of where users click
- Created output table for Degree Day information
- Structured the elements of the web page to be well positioned
- Programmed the Degree Day calculator logic into the website
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Logan Schmit

- Learned frontend to modify carousels for daily-occurences
- Implemented various objects, controllers, and began with repository classes
- Assisted refactoring
- Learned how to add repository & handler classes for all objects, tested implementation successfully

Alex Reynolds

- Refactored the React code for the home page.
- Added Inclusive and exclusive filtering.
- Planned pagination optimization with the team and created pseudo-code to be implemented right away.
- Created a rough plan for the flower of the day.
- Spent a little while trying to figure out how we would handle routing to the flower pages.
- Looked at reference material for mobile design and started creating a plan for navbar (a burger menu page instead of normal navbar, will have to figure out how to load different virtual DOM based on screensize).

Greg Carter

- Finished planning refactor of backend structures
- Started actioning backend refactor by removing unused or unnecessary classes
- Researched how to handle URL interceptions in spring, how they work, and how to use them properly
- Started building new controllers and handlers for admin functionality
- Updated FlowerController with new paths

Individual Contributions

Person	Issue	Contribution	Date	Hours
Devin Amdahl	N/A	Cleaned up issue board, created new issues for the current sprint, and edited information on the weekly report to reflect these new issues. Added the 492 reports we've completed so far to the team website.	2/25	2.5
Devin Amdahl	#110	Created the following classes/interfaces: Paragrah.java, ParagraphConstants.java, ParagraphRepository.java, ParagraphService.java, and ParagraphController.java. One basic service and controller method exist which returns the Paragraph based on the supplied primary key. Pushed this code to Backend (minor additions, figured it was fine to push directly) and deployed the new JAR on the server.	2/25	0.5
Erik Sandberg	#108, #116	Compiled all gallery images into respective folders & uploaded it to the server. Added missing thumbnail images	2/26	1
Erik Sandberg	#78	Pushed final commit to branch for issue #78. Includes setup & data for the images and thumbnail tables.	2/27	4

Devin Amdahl	N/A	Updated Image.imageID and Thumbnail.imageID to be of type String instead of Integer to reflect changes in DB. Changes have been committed, pushed, and deployed to the server.	2/28	0.25
Amy Hartjen	#107	Started integrating database information	2/29	1
Erik Sandberg	#120	Created vendor data from list provided by Lindsey. Updated data types of buckvendor table. Uploaded vendor and buckvendor info to DB	3/1	2
Devin Amdahl	#119	Created and sent initial email to ETG.	3/2	0.33
Devin Amdahl	N/A	Discovered error on backend with DB/schema changes regarding Vendor.vendorID and BuckVendor.vendorID being changed from type int to type varchar while working on GitLab CI/CD (issue #99). Corrected error on backend, tested changes, tested displaying Vendor along with BuckVendor in JSON response now that Vendor data exists (decided against it), committed and pushed changes, and redeployed backend to our server.	3/2	0.5
Devin Amdahl	#99	Created the .gitlab-ci.yml file and verified the build/deploy stages for Frontend and Backend work as expected. Wasted some time trying to troubleshoot why the two GitLab runners wouldn't show online. Somehow they got unregistered from the server since the last time I worked on issue #99. No clue. Created two services on the server that are used to deploy frontend and backend. Changed file groups and permissions to grant the gitlab-runner user appropriate levels of access. Modified the sudoers file to allow the gitlab-runner the ability to execute specific commands (only those required by the .gitlab-ci.yml) under sudo permissions without requiring a password.	3/2	3.75
Amy Hartjen	#107, #106	Finished stylizing the filter, worked on the info rendering for about pages and looked into image rendering issue a little bit	3/2-3/3	6
Logan Schmit	None	I'm bad at tracking my work on this, I've been reworking the backend classes I made in previous issues. Additionally Greg and I spent time refactoring lots of the backend. Additional classes were implemented and I setup lots of CI/CD work before		9

		Devin forcefully took over that topic to better do his own responsibilities. I'm researching methods for setting up testing procedures.		
Amy Hartjen	#121	Stylized individual rose pages, made notes for future rose pages, cleared clutter on frontend like hardcoded images and had a quick fix to the about page	3/7	5
Devin Amdahl	#99, N/A	Changed .gitlab-ci.yml to use symlink on images directory, changed file extensions to "JPG" for all thumbnail images to reflect info in DB, identified and corrected incorrectly named thumbnail directories, thumbnails, and images.	3/2 - 3/16	1
Devin Amdahl	#122	Added RHSCC colors to individual rose pages, corrected how individual rose page is rendered in view port, added correct logic for commas and conjunctions for Parents and Descendants, corrected "Descendents" to "Descendents", added a missing space between the flower's name and the year it was created, added logic to retrieveFlower() so that it currently encodes brackets with their corresponding URI values, and added logic to replace any null or empty data (Notes, RHSCC, colors, Description, Parents, Descendents, and Height) with "N/A"	3/2 - 3/16	3.75
Devin Amdahl	N/A	Changed the thumbnail used for Serendipity and cropped Allamand-Ho's thumbnail image and updated the image on the server. Also added the placeholder image for roses without thumbnails to the server, inserted the image record on the DB, and updated the corresponding thumbnail entries for the roses without thumbnails. Also added the placeholder Reiman Gardens map image to the server, but didn't add this image to the DB. Need to create a backend endpoint for returning this file path first.	3/2 - 3/16	0.5
Devin Amdahl	N/A	Create issues from backend refactoring document.	3/2 - 3/16	0.5
Devin Amdahl	N/A	Cleaned up issue board and created new issues for the week. Waiting on responses for a few issues before closing/extending them.	3/17	1
Logan Schmit	111	Met with Greg to cover backend refactor plan, and later spent time working on some of it	3/17	6

Amy Hartjen	#96, other	Created routing for admin page and fixed the team website	3/17	1.5
Amy Hartjen	#131	Created admin login, fixing spacing	3/24	4
Erik Sandberg	#96	Created design for admin page	3/24	1.5
Erik Sandberg	#96, other	Created template for admin page's tables	3/31	1.5
Erik Sandberg	N/A	Created design for database schema of buck flower bloom time ranges	3/ 31	0.5
Devin Amdahl	#129	Began adding vendor information to individual rose pages, corrected spacing issues from previous additions to individual rose pages, and helped identify and fix spacing issues that were occurring across different browsers and screen resolutions with Amy and Erik.	03/24	1.5
Devin Amdahl	#129	Finished adding vendor information to individual rose pages.	03/30	1.5
Greg Carter	#123	Remove old/unused entities in backend	3/24	1
Greg Carter	#126	Clean up old controllers/handlers/services	3/24	2
Greg Carter	#132	Create Admin Create update and delete controllers	3/26	2
Greg Carter	#127	Add functionality to the admin controllers	in progress	5
Greg Carter	#111	Create refactor plan for backend	2/16 - 3/15	15
Greg Carter	#128	Create new flowercontroller based on refactor	3/24/24	5
Greg Carter	#133	Create custom interceptoir for admin calls	3/24 - 3/28	10
Logan Schmit	124, 125, 118	Studied frontend JS programming for review and implemented the "fact of the day" and "flower of the day" and pest object/controller. This was slow because I didn't know how to do this, not because it was particularly difficult.	3/29-3/31	11
Alex Reynolds	#113	Worked on trying to solve dynamic routing but haven't figured it out yet	in progress	1.5
Alex Reynolds	#113	Dynamically render fluidkey using backend/db	in	0.75

		atributes.	progre ss	
Alex Reynolds	#NA	Worked on these commits. Added inclusive & exclusive option. Refactored frontend.	3/3 & 3/4	3

Person	WT	Total
Erik Sandberg	10.5	32.5
Amy Hartjen	17.5	34.5
Alex Reynolds	5.25	25.75
Greg Carter	40	54
Logan Schmit	26	42
Devin Amdahl	17.58	50.08
Patrick Origer	0	14

Pending Issues

Erik Sandberg

- Issue #96: [Create layout for admin pages](#)
- Issue #120: [Compile data for vendors & buckvendor tables](#)

Devin Amdahl

- Issue #130: [Add Endpoint for Returning the Reiman Gardens Map Image Path](#)

Amy Hartjen

- Issue #106: [Stylize the "Home" Page's Fluid Key](#)(Completed but unmerged)
- Issue #107: [Modify the "Glossary", "About Us" and "About Griffith Buck" Pages to Use Backend Information](#)

Greg Carter

- Issue #127 [Create and Implement Admin Funcitons from Refactor Doc](#)

Patrick Origer

- Issue #114: [Implement Image Coordinate Mapping Into "Degree Day" Page](#)

Alex Reynolods

- Issue #111: [Implement Dynamic Routing to Flower Pages](#)

Logan Schmit

- Issue #125 [Dynamically Set Rose of the Day on Frontend](#) (final stages but have had npm issues and need to sort those out before I can test if it was solved and can be pushed)
- Issue #124 [Dynamically Set Fact of the Day](#) (final stages but have had npm issues and need to sort those out before I can test if it was solved and can be pushed)
- Issue #118 [Implement PestRepository.java, Add Necessary Methods to Decided Service and Controller](#)
- I do a bad job at cataloging my work with issues, sorry to the TA reviewing this

Plans for Upcoming Report Period

Erik Sandberg

- Issues to be made:
 - Import fact of the day information into paragraph table
 - Implement admin homepage on frontend
 - Create bloom range table on DB
 - Add table to store admin login information on DB for temporary Admin login

Devin Amdahl

- Issues to be Made:
 - Reply to ETS' Email and Reach Out to Lindsey About Managing Okta Integration
 - Add Pest Endpoint(s) to Backend for Degree Day Page
 - Add Missing Repository and Service Classes for All Entities for Admin Functionality
 - Refactor Descendants and Parents to the DB's Single Table Design
 - Add Endpoint for Retrieving a Random BuckFlower
 - Change Frontend to Use Refactored Endpoints Once Changes Pushed to Main
 - Create Entity, Constants, Repository, and Service Classes/Interface for Bloom Range

Amy Hartjen

- Complete pending issues
- Add hardiness to individual rose pages
- Implement navbar for mobile capabilities
- Implement admin login functionality (waiting for backend and database info)
- Create rose gallery

Greg Carter

- Finish Admin Create and Update functionality for page updates

Logan Schmit

- To fully implement the Repository classes for all backend objects
- Look into setting up testing infrastructure & implementing it, even the beginnings of it, if possible

Patrick Origer

- Complete fully functioning version of Degree Days page
- Make minor adjustments to interactive map functionality
- Add shortcut buttons for selecting durations of time for Degree Day calculations

Alex Reynolods

- Finish up dynamic routing
- Fix navbar on mobile
- Add pagination for the flowers
- Decouple the frontend from the backend and make dynamic based on DB so that the code doesn't need maintained

Midterm Feedback

Our feedback team prefaced their feedback by acknowledging that it is a client project so some design choices were not up to us. They also were mostly cyber security majors so the feedback was security focused. They gave us compliments on how much progress we have made compared to other groups, our initial inventory and well thought out design as well as our website design and navigability. Most of them said that our largest strength is how thoroughly planned everything is. They have a clear view of what we are planning to do and can see all of our goals through our design. They had concerns about the scalability of our website as well as security within our admin page with SQL injections and other cyber attacks. Scalability isn't a worry for us at the moment because new Buck flowers cannot be made and at most there may be a new descendant every couple of years. For SQL injections we are planning to use Iowa State Okta to ensure we have well-rounded security.

They did suggest increasing navigability by linking mentions of flowers to their individual pages instead of having to search for them. We have now created an issue for this and will be working on implementing it in the future. They also suggested getting farther ahead on testing and having parallel tasks to be able to test at the same time as completing other functionality. We will encourage more testing while we complete our other tasks and also encourage tests to be implemented sooner. Overall, we are hoping to improve some website features, keep members more informed of work progress and make further progress on testing based on the given feedback.