Gleam

Design Inspection, Code Inspection, Unit Testing

Group 25

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Design Inspection

Date: September 19th, 2019

Author: Development Team

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| --- | --- | --- | --- | --- |
| Defect # | Description | Severity | How Corrected | Automatic |
| 1 | Users could access “My Posts” without error message while not logged in | Important | Respective page now displays a “Please Login” message to access the page | No |
| 2 | Users could access “My Bookmarks” without error message while not logged in | Important | Respective page now displays a “Please Login” message to access the page | No |
| 3 | Users could access “My Comments” without error message while not logged in | Important | Respective page now displays a “Please Login” message to access the page | No |
| 4 | Users could submit new posts while not logged in | Important | Disabled “New Post” button if no user session is active (user is not logged in) | No |
| 5 | Users could click “My Profile” dropdown while not logged in | Important | Disabled the “My Profile” dropdown unless there is a user session active | No |
| 6 | Users could access an invalid URL without error message for our application | Workaround | Set unmatched and undefined routes to display a “404” page | No |
| 7 | Information was being sent to the API through GET params (query string) | Critical | Changed method of sending information from query string of GET to body of POST | No |
| 8 | Changing to other pages results in post list with wrong index range.  (After redirected to other pages, posts appeared in previous pages show again) | Important | Deferred paginating results to backend API and send pagination information back to front-end to avoid overlap. | No |
| 9 | No error message for a failed user login (user not found) | Workaround | Added a “Incorrect username or password” error if user is not found | No |

Code Inspection

Date: September 19th, 2019

Author: Development Team

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| Defect # | Description | Severity | How Corrected | Automatic |
| 1 | Variables in various source files were created but not used:  “Divider”, “Message”, etc. | Workaround | Removed unnecessary variables from source code | No |
| 2 | Components in various source files were imported but not used:  “PostList”, “Input” | Workaround | Removed “PostList” and “Input” from imports | No |
| 3 | Functions in various source files were created but never called: “handleReset” | Workaround | Deprecated unnecessary functions that were no longer required | No |
| 4 | MyPost:: Use GET instead of POST to query postList of a specific user, which requires password and username | Critical | change GET to POST | No |
| 5 | PostContent: fetch function use wrong url: `http://13.58.109.119:3001/view` | Critical | change the url from `<http://13.58.109.119:3001/view>` to `http://13.58.109.119:3001/posts/view` | No |
| 6 | fetchCommentList() is called without constraint, which results in endless function invocations | Important | use content variable as flag: content is set originally to undefined and then changed according to the response.  Only when content===undefined, is the fetchCommentList() called | No |
| 7 | PostContent: the index used to parse url in slice() function is wrong:  an extra ‘:’ is generated in postId | Critical | increase the index by 1 | No |
| 8 | Post results were not being updated when user pressed “Enter” on the search bar | Important | Forced React to re-render post list on receiving an “Enter” press event | No |
| 9 | Post results were not being updated when pagination page was updated | Important | Forced React to re-render post list on page change by adding a representative state variable | No |
| 10 | “Sign In” button was still displayed after user successfully logged in | Important | Added logic to conditionally render the “Sign In” button or “Log Out” button | No |
| 11 | User welcome message in the navigation bar was not displaying after login | Workaround | Added logic to store username for the current session in order to display the welcome message | No |
| 12 | New post submissions by a user would not show up under “My Posts” until page was refreshed because the render preempted the database update | Workaround | Restructured execution flow to only redirect to “My Pages” once the post was successfully submitted | No |
| 13 | Inefficient querying of homepage posts. | Workaround | Moved Post querying outside of conditionals to reduce the number of queries made to database | No |

Unit Testing

Back-End

Module: user\_controller

Date: September 19th, 2019

Author: Emily Ou

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| Defect # | Description | Input | Output | Severity | How Corrected | Automatic |
| 1 | Default ‘index’ route can retrieve all users in database in production | GET request to /users endpoint | Actual: Returns all users in database  Expected:  No results in production database | Important | Added check for rails environment, No longer returns users in production | No |
| 2 | User would be created even if username already existed in the database | POST request with username and password payload | Actual: User is created  Expected: Failed to create user | Critical | Added check to see if username already exists during registration, if so send error to front end | No |

Module: posts\_controller

Date: September 19th, 2019

Author: Shafer Hess and Emily Ou

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| --- | --- | --- | --- | --- | --- | --- |
| Defect # | Description | Input | Output | Severity | How Corrected | Automatic |
| 1 | User entry retrieved from database is not checked to be valid user before creating post | POST request body with new post parameters  (username, password, title, content) | Actual: Post is created without validating user  Expected: error message if the user is not validated, success message if user is | Critical | Created the is\_validated method in the user model to verify user in database | No |
| 2 | Request with pageType == bookmarks were not being properly routed | POST payload with bookmarks pageType | Actual: API responds without any content  Expected: API returns user bookmarks | Critical | Fixed conditionals and updated processing of pageType variable in the posts\_controller file | No |
| 3 | No pagination on requests with searchQuery attached | POST payload with searchQuery != “” | Actual: API internal server error  Expected: Results filtered with query, paginated | Important | Fixed syntax error in data accessing. date[“pageNumber”] -> data[“pageNumber”] | No |
| 4 | Pagination not working in bookmarks request with attached search query | POST payload with pageType = bookmarks and searchQuery != “” | Actual: Pagination error and Internal Server Error  Expected: all User bookmarks paginated and filtered by query | Critical | Bookmark retrieval and pagination refactored to paginate\_by\_sql instead of find\_by\_sql. Allowed for more detailed queries | No |
| 5 | When searching for bookmarks with a query there is a ‘too few arguments’ error for the find\_by\_sql function | POST payload with pageType = bookmarks and searchQuery != “” | Actual: Internal Server Error  Expected: all User bookmarks paginated | Critical | Switched from using variables to store the SQL query and added the query directly as an argument | No |
| 6 | The ‘view’ route for retrieving post data doesn’t verify proper post\_id | POST payload with post\_id = a selected post | Actual:  No post error or incorrect content  Expected: Error if post doesn’t exist | Workaround - Posts are stored and sent by dev front end | Ongoing | No |
| 7 | The ‘view’ route does not properly increment post view count | POST payload with pos\_id = a selected post | Actual: Post view count is static  Expected: views is incremented every click | Important | Ongoing - solution in development | No |

Module: bookmarks\_controller

Date: September 19th, 2019

Author: Shafer Hess

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| Defect # | Description | Input | Output | Severity | How Corrected | Automatic |
| 1 | When retrieving user object, code never checks for null response | POST payload with username password and post\_id | Actual: No response  Expected: Error message | Important | Added check for is\_validated before attempting to create bookmark entry | No |
| 2 | Adding a bookmark never checks if the user has previously registered | POST payload with the username of the user and the post\_id they’re bookmarking | Actual: No error message for duplicate bookmarks  Expected: Error message if bookmark already exists | Important | Ongoing - Query to check if user\_id and post\_id match already exists in development | No |

Front-End

Module: Login/Registration UI

Date: September 19th, 2019

Author: Derek Shu

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| Defect # | Description | Input | Output | Severity | How Corrected | Automatic |
| 1 | Users could submit blank username and password fields on registration | Blank inputs | Actual: Registration accepted  Expected:  Failed registration | Critical | Disabled registration submission button unless both fields are populated | No |
| 2 | Users could submit blank username and password fields on login | Blank inputs | Actual: Login accepted  Expected: Failed login | Critical | Disabled login submission button unless both fields are populated | No |
| 3 | Wrong message was being displayed for registration vs. login | Alternate between clicking “Login” and “Register” | Actual:  Displayed “Invalid Login” for registration  Expected:  Display “Invalid Username” for registration | Workaround | Added state logic to differentiate between “login” and “register” so the correct message would be displayed | No |

Module: ‘My Posts’ Page

Date: September 19th, 2019

Author: Derek Shu and Jie Li

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| --- | --- | --- | --- | --- | --- | --- |
| Defect # | Description | Input | Output | Severity | How Corrected | Automatic |
| 1 | My Posts page would not paginate results | POST request with username, password, and pageNumber and pageType | Actual: API would return 10 result count and not paginate past 10 results  Expected: API returns total number of posts and returns 10 at a time | Critical | Corrected total post counting commands to accurately reflect total user posts | No |
| 2 | My Posts page would not properly search for user query | Any search query into the search bar | Actual: All posts the user has made were returned regardless of query  Expected: Results are filtered by keywords in title | Critical | Updated SQL query to include ‘LIKE’ clause to accurately search titles | No |
| 3 | Loading in the fetched posts would cause an unlikable jarring UI effect | Loading of any list of posts at any point of execution | Actual:  Space between top and bottom pagination would shrink and expand  Expected:  Have a placeholder loader rendered until all the necessary data has been retrieved | Workaround | Updated returned JSX to conditionally render placeholders or the post list | No |

Module: ‘My Bookmarks’ Page

Date: September 19th, 2019

Author: Derek Shu and Jie Li

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| 1 | My Bookmarks page would not paginate results | POST request with username, password, and pageNumber and pageType | Actual: API would return 10 result count and not paginate past 10 results  Expected: API returns total number of posts and returns 10 at a time | Critical | Corrected total post counting commands to accurately reflect total user posts | No |
| 2 | My Bookmarks page would not properly search for user query | Any search query into the search bar | Actual: All posts the user has made were returned regardless of query  Expected: Results are filtered by keywords in title | Critical | Updated SQL query to include ‘LIKE’ clause to accurately search titles | No |
| 3 | Loading in the fetched posts would cause an unlikable jarring UI effect | Loading of any list of posts at any point of execution | Actual:  Space between top and bottom pagination would shrink and expand  Expected:  Have a placeholder loader rendered until all the necessary data has been retrieved | Workaround | Updated returned JSX to conditionally render placeholders or the post list | No |

Module: ‘View Post’ Page

Date: September 19th, 2019

Author:Jie Li

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| Defect # | Description | Input | Output | Severity | How Corrected | Automatic |
| 1 | The post content does not correspond to the current postId because it did not catch record’s postId correctly | postId | Actual:  It shows the content of the n^th post in the post list of the first page  Expected:  Show the content of the post with the input postId | Critical | take use of the forEach loop in PostList component, which contains the post information (including postID) of the clicked row | No |
| 2 | Cannot view  post detail  without logging in | postId | Actual:  Showed a blank page  Expected:  Show the corresponding post content even without logging in | Critical | Delete the username & password checking in post controller | No |