Inspection and Unit Testing

Design Inspection

Product: DateNight
Author: Development Team

Defect #	Description	Severity	How Corrected
1	User can submit any string for location	Important	Integrated Google Autocomplete into the search field
2	User can submit empty field for date types	Important	Added a basic option that is always selected
3	User can not select multiple date types	Important	Changed the select tag to allow multiple selections
4	User can submit the form at any time	Important	Added logic to prevent form submission
5	User can not navigate to list page	Important	Added link to the list page
6	Authentication page does not give the user a token due to an invalid callback url	Critical	Correctly configured the callback url on Auth0 website

Code Inspection

Product: DateNight
Author: Development Team

Defect #	Description	Severity	How Corrected
1	Unit tests would never exit because of async operations still running at the end of testing.	Critical	Ran --detectOpenHandles flag on Jest to find there was an unclosed socket. Closing the server fixed the issue.
2	List cards would not load because the logic was placed in the wrong React hook	Critical	Moved logic for generating list cards to a new function that runs when called, instead of when the component is mounted.

3	State of results from form would not persist from the list page to the map page	Critical	Still working on this, Need to: Created a custom React hook that manages the state of the results from the form page and used it in both the Map component and the List component
4	API was returning nothing because the user was allowed to submit an empty array for the date types from the form page	Important	Still working on this, Need to: Changed the select tag state management to always have one of the options checked and prevented the user from unchecking all options
5	API was returning nothing because the user was able to submit any string as the location from the form page	Critical	Integrated Google's Autocomplete API to have the user select a place that has a latitude and longitude associated with it, prevented the user from submitting the form without choosing something from Autocomplete
6	Had an unnecessary function. There was a function that decoded the users JWT to find out their user info, but that info can already be found in req.user due to the express-jwt middleware	Trivial	Removed from code
7	Had client ids and secrets in a config.json file.	Important	Moved the sensitive information to an environment variables file.
8	Helper functions and routes from the Google Places API remained from API ad hoc testing phase	Trivial	Removed unused functions and references
9	Dating categories consisted of too many subcategories	Trivial	Removed some subcategories
10	Backend POST call for getVeneus had no comments and was hard to read	Trivial	Added comments and refactored code to use more modern JavaScript
11	Unit test descriptions vaguely described their intended functionality being tested	Important	Added comments and made unit tests more specifically represent the functionality they are aiming to test

Unit Testing

Module: getVeneues Unit Test
Product: DateNight API
Date: 09/18/19
Author: Emanuel Pituch, Trevor Hill

Defect #	Description	Input	Output	Severity	How Corrected
1	Search location coordinates provided to function are undefined	Search location coordinates (array of 2 numbers or strings)	Actual output: Program crashed, no response Expected output: Returns a response code of 400 with an error message	Critical	Fixed function to check if coordinates are defined
2	Search location coordinates provided to function are too long or too short	Search location coordinates (array of 2 numbers or strings)	Actual output: Responded with 200, and invalid arguments Expected output: Returns a response code of 400 with an error message	Important	Fixed function to check length of coordinates array
3	Search location coordinates provided to function are too big or small	Search location coordinates (array of 2 numbers or strings)	Actual output: Responded with 200, and invalid arguments Expected output: Returns a response code of 400 with an error message	Important	Fixed function to check bounds of the coordinates
4	Price point provided to function is too big or small	Price point (number between 1-4)	Actual output: Responded with 200, and invalid arguments Expected output: Returns a response code of 400 with an error message	Important	Fixed function to check bounds of the coordinates
5	Price point provided to function is not defined	Price point (number between 1-4)	Actual output: Program crashed, no response Expected output: Returns a response code of 400 with an error message	Critical	Fixed function to check if price point is defined

6	Date types provided to function are not defined	Date type strings (array of 1-4 strings)	Actual: Program crashed, no response Expected: User gets a 400 status "Parameters not defined"	Critical	Fixed function to check if date types are defined
7	Invalid date types provided to function	Date type strings (array of 1-4 strings)	Actual: Program crashed, no response Expected: Caller gets a 400 status "Invalid date types"	Critical	Fixed function to check if all date types are valid
8	Invalid array length date type provided to function	Date type strings (array of 1-4 strings)	Actual: Program crashed, no response Expected: Caller gets a 400 status "Invalid date types"	Important	Fixed function to check amount of arguments

Module: Authentication
Product: DateNight API
Date: 9/20/19
Author: Andy Plank

Defect #	Description	Input	Output	Severity	How Corrected
1	Route was letting all users through, even if they weren't authenticated.	Post '/auth' without a token	Actual: User gets a 200 status Expected: User gets a 401 status	Critical	Correctly implemented express-jwt middleware module to protect the route.

Module: Landing Page
Product: DateNight Client
Date: 9/20/19
Author: Jon Huber

This page is trivial, passed all tests on the first try.

Module: Form Page
Product: DateNight Client
Date: 9/20/19
Author: Jon Huber

Defect #	Description	Input	Output	Severity	How Corrected

| 1 | Disable submit button when location is not filled out | Visit '/form' | Expected: Button is greyed out
Actual: Button is not greyed out | Critical | Added logic that passes the disabled prop to the button when location is empty |

Module: Map Page
Product: DateNight Client
Date: 9/20/19
Author: Jon Huber, Andy Plank

Defect #	Description	Input	Output	Severity	How Corrected
1	Renders the map and the pins	Visit '/form', submit form with a location	Expected: Google Map is displayed with some pins Actual: Pins are not displayed correctly	Critical	Corrected logic that was rendering the pins incorrectly
2	Renders the popup on a pin when clicked	Visit '/form', submit form with a location, click on a pin	Expected: Popup is displayed with information Actual: Popup is displayed without information	Important	Corrected logic that was incorrectly grabbing the pin information
3	Renders login button	Visit '/form', submit form with a location	Expected: Sign in button is displayed in the top right Actual: Sign in button is not displayed	Important	Added logic for the sign in and sign out functionality, created button

Module: List Page
Product: DateNight Client
Date: 9/20/19
Author: Jon Huber, Andy Plank

Defect #	Description	Input	Output	Severity	How Corrected
1	Renders login button	Visit '/form', submit form with a location	Expected: Sign in button is displayed in the top right Actual: Sign in button is not displayed	Important	Added logic for the sign in and sign out functionality, created button