

Sprint 1 - Design Inspection, Code Inspection and Unit Testing

Design Inspection

Product: Stratify

Date: 9/21/19

Author: Arshad Alikhan, Ashwin Mahesh, Richa Tenany, Turner Dunlop, Vishva Pandya

Defect #	Description	Severity	How Corrected
1	No back button present when user clicks forgot password and message displays saying an email has been sent	Workaround	Added code to put a button on the page to take them back to the login page
2	To-do / In progress/ done were hard to differentiate between	Workaround	Added lines to separate each column and gave padding to each card in the column
3	It was hard to differentiate between the title of the task and what it was meant to do	Workaround	We added code to change the background color to differentiate between the two
4	Only some parts of each card were resizable	Important	Used FlexBox Grids to resize the cards appropriately
5	After registering for an account there was no way to go back to login unless you keep pressing back	Workaround	Added code for a "got it" button to the confirmation page that redirects the user to the login page

Code Inspection

Product: Stratify

Date: 9/21/19

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Defect #	Description	Severity	How Corrected
1	Email confirmation was not sending for users. Error log was being shown in the console	Important	Sending email had to be modified so that less secure apps and smtp servers (on Node) could send emails
2	Create task expected input for status when it should fill in a default value.	Workaround	Change create task to populate status to default value.
3	Create task deadline allowed deadline to be before the task creation date.	Workaround	Changed parsing of the date such that the comparison functioned appropriately.
4	Create task did not add task id to the array of tasks in the user table.	Important	Added additional database update statement.
5	removeTask expected and used the task title instead of the id.	Workaround	Changed queries to search with id instead of title.
6	Task was not removed from the users taskIDs array	Important	Changed the update statement.
7	Multiple emails were being sent during login and registration	Workaround	Sendemail method should only be called during register method and then return.
8	Could not connect to local database	Important	Added /data/db directory and set directory permissions appropriately.

9	Create and Remove task use a dummy email.	Important	Update functions to use session email.
10	Difficulty organizing code on swaps when entire dashboard was one section	Workaround	Split dashboard into three components called dashboard-section
11	Swapping of single section of dashboard on click incorrect.		Use EventTransmitters to go to parent component and swap accordingly.

Unit Testing

Module: Add/Remove Task Module.

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Defect #	Description	Input	Output	Severity	How Corrected
1	Deadline allowed to be set prior to the current date inside createTask	Run createTask with deadLine set to 1/1/2019	Actual output: User found and task added. Expected output: Invalid Deadline: must be after current date.	Important	Fixed comparison to parse date properly.

2	Weight is allowed to be negative.	Run createTask with weight set to -1	Actual output: User found and task added. Expected output: Invalid weight: task weights must be positive.	Important	Add boolean check to ensure weight is positive.
3	createTask allows duplicate task titles.	Run createTask with title 'test' and valid entries in all other fields. Run createTask again with title 'test' and valid but different entries in all other fields.	Actual output : User found and task added. Expected output: Task titles must be unique.	Workaround	Return a new response with the appropriate message when Task.findOne({title:title}) does not find null.
4	createTask overrides the user's existing list of tasks and replaces it with just the newly created task.	Run createTask with valid input twice.	Actual output: Users taskIDs array length = 1 when it should be greater than 1. Expected output: New task's id is appended to the user's taskIDs array.	Important	Change the update statement to append object to list rather than update the list itself.
5	removeTask does not remove the task from the user's taskIDs array.	Run createTask multiple times with the same user. Run remove task to remove one of this user's tasks.	Actual Output: User's taskIDs still has the removed task. Expected Output: User's taskIDs should not have the removed ID but should still have the rest.	Important	Change the update query so that the specific id is searched for.

Module: Login/Signup Module.

Product: Stratify

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Defect #	Description	Input	Output	Severity	How Corrected
1	Person could sign up again with an email that already exists instead of prompting them to try again.	Input 1: purdue@gmail.com Input 2: purdue@gmail.com	Output 1: "Sign up successful!" Output 2: "Sign up successful!"	Critical(5)	Changed the query to look up existing emails. Used the User.findOne function instead of our previous function.
2	Logout button would redirect to a success message of "Successfully logged out" instead of redirecting back to the login page	Input: Click on logout	Output: "Successfully logged out"	Workaround(1)	Changed redirection from the function to redirect to the '/login.html'
3	After logging in and opening a new tab and going to the website again, the user would be prompted to log in again.	Input: Open new Tab and visit the website again while already have been logged in before.	Output: Login page	Important (3)	Correctly set session variables and implemented a function to check if session.loggedIn is true every time a user visits the website.
4	User could enter "user hi@gmail.com " and be able to sign up instead of getting an "Invalid email"	Input: "user hi@gmail.com"	Output: "Successfully signed up"	Critical(5)	Changed our regex to correctly look for a string with just an email and nothing else.

5	User could enter password length of more than 20 instead of restricting it to 20 characters	Input: AAAAAAAAAA AAAAAAAAAA AAAAA	Output: "Password set"	Important (3)	Set a condition to check for password's length and return appropriate response.
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Module: Dashboard Module

Product: Stratify

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Defect #	Description	Input	Output	Severity	How Corrected
1	Add Task Component renders in correct position	User clicks the add task button	The To-Do section of dashboard switches to the add task component.	Critical	Use EventTransmitter to signal to parent component
2	Task Information Renders in correct spot	Click on a task title in each of the three categories	That category switches to the component for task information	Important	Use EventTransmitter to signal from the card, to the dashboard section, then another transmitter to signal from the dashboard section to the dashboard.