Design Inspection and Code Review

Team 6 : Bolt

Nathan Peercy, Jia Lin Cheoh, Samuel Klarquist, Alex Willis, Siddharth Shah

Design Inspection Defects

Product	Bolt Authentication System Design Inspection		
Date	02/07/2019		
Author	Jia Lin Cheoh		
Moderator	Siddharth Shah		
Inspectors	Sam Klarquist, Alex Willis, Nathan Peercy		
Defect #	Description	Severity	How it was Corrected
1	No way to let the users know that they are logged in into the system with the appropriate user account.	2	Fetch the user profiles in the authentication system, so that their usernames will appear on the app.
2	No visible button for users to log out of the application.	2	Create the button for users to click on and log out of the application.
3	Users experience slowness when logging in.	2	Set rememberLastLogin property set to true

Product	Bolt Overall Design Inspection		
Date	02/07/2019		
Author	Alex Willis		
Moderator	Nathan Peercy		
Inspectors	Sam Klarquist, Jia Lin Cheoh, Siddharth Shah		
Defect #	Description	Severity	How it was Corrected
1	requirements.txt does not exist and developer needs to install packages manually	2	Create a requirements.txt with all packages needed
2	Environment variables not set in the relevant environments	1	Hard-coded the values in config.py
3	Whether POST requests are with json or parameters is not clear between frontend and back end	1	Use json for all requests

Product	Bolt Basic Front End Design Inspection		
Date	02/07/2019		
Author	Sam Klarquist, Jia Lin Cheoh		
Moderator	Siddharth Shah		
Inspectors	Nathan Peercy, Alex Willis, Siddharth Shah		
Defect #	Description	Severity	How it was Corrected
1	Reply memo functionality crashes when users try to reply to memo due to	2	Fix the Javascript code to fetch the appropriate database variables.

	memo received not fetched properly.		
2	System crashes when users try to delete memo drafts due to backend and frontend functionalities to delete memo are not synchronize.	2	Fix the delete functionality on the back end and front end to make sure they are synchronized.
3	Memo drafts are not opened when users try to open them due save memo drafts functionality not correctly implemented.	2	Fix the save memo draft functionality to make sure memos are saved automatically when users quit the interface unless users choose to discard the drafts.

<u>Code Inspection</u>

Product	Bolt Authentication System Code Inspection		
Date	02/07/2019		
Author	Jia Lin Cheoh		
Moderator	Alex Willis		
Inspectors	Sam Klarquist, Nathan Peercy, Siddharth Shah		
Defect #	Description	Severity	How it was Corrected
1	Login functionality vis Google credentials crashes due to Auth0 API not fetched correctly.	1	Caused by incorrect documentation by Auth0, and client_id is changed to clientID.
2	User profiles not fetched correctly, and users do not see their usernames appear after they login.	1	Validation checks on Auth0 API documentation to make sure all appropriate steps are taken to fetch user profiles.
3	Users are not taken to the next page even though they have entered the correct credentials due to callbacks URL is not set up.	1	Create a callback URL so that users will be redirected to the appropriate page after they enter the appropriate credentials.

Product	Bolt Memo Creation Code Inspection
Date	02/08/2019
Author	Siddharth Shah
Moderator	Nathan Peercy
Inspectors	Alex Willis, Jia Lin Cheoh, Sam Klarquist

Defect #	Description	Severity	How it was Corrected
1	Using json.dumps instead of flask.jsonify does not return correct content type	1	Switch to flask.jsonify
2	/send_memo endpoint returned Memo object instead of success/failure	3	Record success/failure boolean and return accordingly
3	Inconsistent/Inaccurate Comments	3	Update Comments
4			

Product	Bolt Memo List Inspection
Date	02/08/2019
Author	Siddharth Shah
Moderator	Alex Willis
Inspectors	Nathan Peercy, Jia Lin Cheoh, Sam Klarquist

Defect #	Description	Severity	How it was Corrected
1	Blank user_id causes errors while querying the database	1	Added input checking to test for blank input user_id
2	Users are not able to see the memo list shared with them.	3	Added additional category on the react interface to fetch the correct variables from the back end.
3			
4			

Product	Bolt Database Design Inspection		
Date	02/08/2019		
Author	Siddharth Shah		
Moderator	Jia Lin Cheoh		
Inspectors	Nathan Peercy, Sam Klarquist, Alex Willis		
Defect #	Description	Severity	How it was Corrected
1	Database structure didn't allow for multiple memo receivers	1	Changed schema to remove "to" column from Memo table to a separate FromTo table.
2	Userid and email had no collate for optimized comparison	3	Added "COLLATE" for optimized string sorting
3	FromTo table did not check for valid user_id	1	Added user_id check to reference the User table

Product	Bolt Navigation Bar		
Date	02/08/19		
Author	Sam Klarquist		
Moderator	Jia Lin Cheoh		
Inspectors	Nathan Peercy, Sam Klarquist, Alex Willis		
Defect #	Description	Severity	How it was Corrected
1	Click events could possibly not register because	1	Changed where the <ClickAwayListner> encompassed to only be within the Menu

	ClickAwayListner could stop click events on the menu items		component
2	"Open" variable relied on two methods to change its value which could cause issues (i.e. Menu possibly wouldn't disappear when clicked)	2	Changed the variable "open" to be inverted in one method rather than being set to true and false in separate click events
3			
4			
5			

Team 6
2 / 8 / 2019

Unit Testing

Product	Bolt Verification for Authentication System Unit Testing Inspection		
Date	02/07/2019		
Author	Jia Lin Cheoh		
Moderator	Alex Willis		
Inspectors	Sam Klarquist		
Recorder	Siddharth Shah, Jia Lin Cheoh, Nathan Peercy		
Defect #	Description	Severity	How it was Corrected
1	Checking process to see if credentials entered match all the information in the authentication system	1	This functionality returns a failure response, and hence, the appropriate handling is done for the case when the credentials entered do not match any of the credentials in the authentication system.
2	Handle null inputs	2	Include appropriate code implementation to handle the null cases on the client.
3	Handle invalid inputs	2	Include functionalities to handle all invalid requests on the client.
4	Check to see if deleting a non-existing user is handled gracefully	2	Included code that does not crash the system when a non-existing user id is deleted

Team 6
2 / 8 / 2019

Product	Memo creation Unit Testing		
Date	2/8/2019		
Author	Nathan Peercy		
Moderator	Alex Willis		
Inspectors	Siddharth Shah, Jia Lin Cheoh, Sam Klarquist		
Defect #	Description	Severity	How it was Corrected
1	SQL insert not always at same id for memo and FromTo	1	Fix SQL Queries
2	Memos and Subjects were being swapped in get_memos_from_email	1	Swap variables
3	Handle blank user_id for "from"	2	Input checking
4	Handle blank user_id for "to"	2	Input checking

Product	Account creation/deletion backend		
Date	2/8/19		
Author	Alex Willis		
Moderator	Jia Lin Cheoh		
Inspectors	Siddharth Shah, Nathan Peercy, Sam Klarquist		
Defect #	Description	Severity	How it was Corrected
1	Failing to delete an account	1	Database changes were committed so that the database would be correctly

			updated
2	Improper crash handling on malformed sql delete statement	1	Fixed the syntax issues in the sql statement, it was not being formed correctly
3	Incorrect return values on success and fail	2	Changed return values from a string to True/False
4	Not handling a return value of None on sql select statement	1	Insert a check for the query returning None, and then return None