Design & Code Inspection

CS 408 Team 8

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Design Inspection

Product	Map and Voting Design Inspection
Date	2/7/18
Author	Sawyer Blatz
Inspector	Sawyer Blatz

Defect #	Description	Severity	How it was corrected
1	The map view did not start at the user's current location	1	Upon receiving user's permission to user their location, pan the map to it
2	When loaded, the map view would be really zoomed out	1	Set the default zoom level to show a 0.5 mile radius
3	The map view was not aligned properly on smaller devices, and would lead to some data not being visible	2	Changed autolayout constraints on the map so they would work for all devices sizes
4	The text of a bubble would not wrap to the next line, and thus not fill the bubble vertically	2	Changed the UILabels to be multilined and modified their autolayout constraints to match the bubble size
5	When upvoting a post, a user's previous vote was not saved, and thus they could keep upvoting it	2	Changed database to store which bubbles a user had previously upvoted and downvoted to ensure they couldn't continually vote.

Product	System Design Inspection
Date	2/8/18
Author	Dhruv Upadhyay
Inspector	Dhruv Upadhyay

Defect #	Description	Severity	How it was corrected
1	The design pattern of the app was not following MVC.	3	Organized the project's files to enforce MVC.
2	All backend references and functions were in the same file	3	Organize backend references and functions into 2 seperate files; one for user authentication and one for database querying.

Product	User Profile Design Inspection
Date	2/8/18
Author	Dhruv Upadhyay
Inspector	Dhruv Upadhyay

Defect #	Description	Severity	How it was corrected
1	No way to see user's information within app.	1	Created user profile storyboard.
2	No way to edit profile information.	1	Added "Edit Profile" storyboard and segue from profile page
3	No way to change profile picture.	3	Added option to change profile picture in "Edit Profile" storyboard.

Product	System Design Inspection
Date	2/8/18
Author	Abdul Aziz Bah
Inspector	Abdul Aziz Bah

Defect #	Description	Severity	How it was corrected
1	LogOut button Onclick terminated with uncaught exception of type NSException. Therefore button did not segue to the intended page and crsahed	2	Found that the logout had been set to segue to two pages, which confused the flow of the app. Fixed it by removing one of the segues

Product	System Design Inspection
Date	2/8/18
Author	Abdul Aziz Bah
Inspector	Abdul Aziz Bah

Defect #	Description	Severity	How it was corrected
1	Terms & and conditions label was not aligned to the left of the app when run on larger devices.	3	Aligned the terms & conditions label to the left, since the label was constraint to the leftmost edge it was corrected.

2	Join us and login button actions were interchanged, login lead to account creation and join us lead to login page	2	Switched the segue identifiers for the buttons to the corrected identifiers
3	Password textfield text was not secure, user password was exposed	3	Enabled secure entry on the UITextField's attributes.

Product	System Design Inspection
Date	2/8/18
Author	Abdul Aziz Bah
Inspector	Abdul Aziz Bah

Defect #	Description	Severity	How it was corrected
1	Cocoapods for Firebase appear as if it was not loaded on Xcode, and therefore threw errors even though it was installed.	1	Deleted project file and restarted project
2	Xcode was not showing output of program on console	1	Deleted Xcode and re-installed

Product	Bubble Creation Design Inspection
Date	2/11/18
Author	Siraj Zaneer
Inspector	Siraj Zaneer

Defect #	Description	Severity	How it was corrected
1	The post creation view would not appear	1	Associate XIB to correct view in interface builder
2	Submit button was not placed in navigation bar	2	Set submit button as child of right side item of navigation bar
3	Cancel button was not placed in navigation bar	2	Set cancel button as child of left side item of navigation ba
4	The textview for bubble creation would not expand to creation view	3	Changed autolayout constraints to pin textview to parent
5	User profile image was missing	3	Changed autolayout constraints to expand to fit profile image

Code Inspection

Product	Map and Voting Code Inspection
Date	2/7/18
Author	Sawyer Blatz
Inspector	Sawyer Blatz

Defect #	Description	Severity	How it was corrected
1	When upvoting a post, a user's previous vote was not saved, and thus they could keep upvoting it	2	Changed the database to store which bubbles a user had previously upvoted and downvoted to ensure they couldn't continually vote.

Product	System Code Inspection
Date	2/7/18
Author	Dhruv Upadhyay
Inspector	Dhruv Upadhyay, Sawyer Blatz

Defect #	Description	Severity	How it was corrected
1	No error message shown on why data was not being received from backend	2	Added function handler in backend query functions which logs any error it catches in the console
2	Merge conflicts caused because people edited the same storyboard, so code wouldn't compile	1	Resolved merge conflicts by creating separate storyboard file for each view so everyone works on their views without

			causing merge conflicts.
3	Cocoapods version and installation errors	1	Some members had outdated versions of dependencies and so this caused compilation issues with Swift 4. Resolved by having a common module for dependencies that everyone uses.

Product	Bubble Creation Code Inspection
Date	2/11/18
Author	SIraj Zaneer
Inspector	Siraj Zaneer

Defect #	Description	Severity	How it was corrected
1	When creating a bubble the Firestore transaction would fail	1	Edited code to ensure all documents that were read form were written to

Unit Testing

Our unit testing was done manually, as many of the defects we had were difficult to simulate (poor reception, for example). We covered a range of modules in our unit testing such as the map view and bubble creation.

Product	Map and Voting Unit Testing
Date	2/7/18
Author	Sawyer Blatz
Inspector	Sawyer Blatz

Defect #	Description	Severity	How it was corrected
1	Handle lack of location services (due to poor signal) with an error dialog instead of crashing	3	A warning message is now displayed to the user when their signal is low, informing them they cannot use the app due to a network issue
2	Ensure that coordinates sent to the database are in the correct format to avoid future crashes	3	Implemented an error dialogue box if the coordinates passed from the device were invalid (if the user was spoofing their location, for example)

Product	System Unit Testing
Date	2/8/18
Author	Abdul Aziz Bah
Inspector	Abdul Aziz Bah

Defect #	Description	Severity	How it was corrected
1	Needed validation of user input in textfields to make sure Firebase is not sent illegal login information.	3	Add guard statements to check if input fields were empty
2	Make sure on successful attempt to sign in or create an account user was routed to the right page	2	Gave descriptive and correct segue id to each action and manually tested them.

Product	User Profile Unit Tests
Date	2/8/18
Author	Dhruv Upadhyay
Inspector	Siraj Zaneer

Defect #	Description	Severity	How it was corrected
1	User's new profile picture does not save	2	Send uploaded picture to backend and save it under the user's database entry.
2	User's profile settings are not saved	2	Send dictionary of newly saved data and update user' database entry
3	Logging out does not sign the user out of their account	1	Need to make sure to call firebase's function for signing the user out as well as our log out

			function to segue to log in screen.

Product	Bubble Creation Design Inspection
Date	2/11/18
Author	Siraj Zaneer
Inspector	Siraj Zaneer

Defect #	Description	Severity	How it was corrected
1	Bubble is not being created with all required values	1	Add in a default value for non user inputted values during Bubble creation