

Team 26
09/22/2017

Design Inspection / Code Review #2

Team GymWorkout

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Design Inspection Defects

Product	GymWorkout Profile design inspection
Date	10/12/2017
Author	Vishaal Bommena
Moderator	Dhiman Swadia
Inspector	Manoj Polisetti

Defect #	Description	Severity	How it was corrected
1	As you enter information into the search bar the tableview is not indexed correctly, which causes redirection to an incorrect cell	1	Updating the index of the table view whenever the search bar is activated
2	Data was being pulled into the database, but it was too long.	1	Had to truncate the strings to specific size to fit them properly in the table view

3	Loading and populating the tableview was slow	1	Batching of the queries, whenever the user scrolls
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Product	GymWorkouts workout list design inspection
Date	09/22/2017
Author	Harsha Lingareddy
Moderator	Dhiman Swadia
Inspector	Sanat Mouli

Defect #	Description	Severity	How it was corrected
1	No way to show the muscle group related to a workout created for a specific muscle group	2	Put the Name of the muscle group as the name of the created list
2	Searching through all workout lists based on muscle group	1	Made sure it only displays lists catered towards the specific muscle group without results from normal workouts
3	Changed the view controller to update the number of reps immediately	2	Changed the view controller to update the number of reps should happen once the user press's the submit button

Product	GymWorkouts reminders and achievements design inspection
Date	09/22/2017
Author	Manoj Polisetti
Moderator	Vishaal Bommena
Inspector	Harsha Lingareddy

Defect #	Description	Severity	How it was corrected
1	If the query entered does not match to a valid key value pair in the database	1	Visual code inspection for each query are set in place for each variable in the server which receives values from the database.
2	If there are too many calls to the database for inserting and fetching data.	1	Batching of queries to send many queries at one Post request to the server. The server then unloads the queries and executes each query one at a time, to control the flow of data being stored and fetched.
3	Objects can be malformed if the name of the workout is queried under the name.	1	The query on the client must be re-written and inspected. This will be done to ensure integrity of the database.

Code Inspection

Product	Gym Workouts Profile Code Inspection
Date	10/11/2017
Author	Dhiman Swadia
Moderator	Manoj Polisetti
Inspector	Sanat Mouli

Defect #	Description	Severity	How it was corrected
1	Invalid characters in edit name field in the user profile page.	1	Perform validation checks and thoroughly check that all names have only letters and no symbols
2	Profile viewcontroller crashes due to the data being absent due to the query not being completed	1	Finish the query before rendering the view.
3	Clicking on the profile button doesn't take you to the profile page.		Create unique storyboard identifier for each storyboard, to avoid conflict in the future.

Product	GymWorkouts Profile Code Inspection
Date	10/11/2017
Author	Sanat Mouli
Moderator	Vishaal Bommena
Inspector	Harsha Lingareddy

Defect #	Description	Severity	How it was corrected
1	If name is too long it's truncated when sent to the database	1	Fixed the call by limiting the name size to specific size.
2	Optimized the database in order to easily find workouts pertaining to a certain muscle groups	2	Fixed the time it takes to search for workouts of certain muscle groups by querying the muscle group for each workout.
3	Optimized the fetch for preset workout lists by creating individual objects for each workout	2	Created individual objects for each workout in order to optimize the fetch on the front-end.

Product	Gym Workouts Code Inspection
Date	10/12/2017
Author	Dhiman Swadia
Moderator	Vishaal Bommena
Inspector	Harsha Lingareddy

Defect #	Description	Severity	How it was corrected
1	Different view controllers were causing conflicts when changes were made to settings	1	Reduced the number of view controllers to make lower merge conflicts
2	The settings bar was overlaying on the main navigation bar	1	Created a segway that puts the edit button under the navigation bar
3	The views had to be added to the universal segway controller	2	Connecting the profile view to a universal one so the changes are viewed immediately

Product	GymWorkouts Code Inspection
Date	10/12/2017
Author	Dhiman Swadia
Moderator	Manoj Polisetti
Inspector	Sanat Mouli

Defect #	Description	Severity	How it was corrected
1	The structure of the database wasn't configured to handle different workouts focussed on a single muscle group	1	Changed the structure to change dynamically as workouts are added with the same muscle group and a key keeping track of the associated muscle group
2	The structure of the database wasn't configured to allow the user to write to the database	2	Changed the rules of the database to allow for users to write to certain lists.
3	Names with infinite length	2	Made sure the name truncated before being sent to the database

Unit Testing

Product	GymWorkout Login Verification Unit Testing Inspection
Date	09/22/2017
Author	Vishaal Bommena
Moderator	Sanat Mouli
Inspector	Harsha Lingareddy

Defect #	Description	Severity	How it was corrected
1	Handle invalid requests and null cases	1	Add implementation to handle invalid requests on the client side
2	Checking if credentials entered exist for the login system	2	Return a failure response and add the appropriate handler for cases when they do not exist

Product	GymWorkouts Login Page Unit Testing Inspection
Date	09/22/2017
Author	Vishaal Bommena
Moderator	Dhiman Swadia
Inspector	Sanat Mouli

Defect #	Description	Severity	How it was corrected
1	Passwords on infinite length are allowed	2	Add a boundary to the number of characters entry allowed(32)
2	Blank username or passwords are not highlighted	2	Add implementation so that these fields would return prompts to enter the required information
3	Short passwords are allowed	3	Add length validation on the front end as well

Product	GymWorkout Login Verification Unit Testing Inspection
Date	09/22/2017
Author	Dhiman Swadia
Moderator	Manoj Polisetti
Inspector	Sanat Mouli

Defect #	Description	Severity	How it was corrected
1	Restrictions on the emails	3	Made sure most valid emails can be entered and when an invalid one is entered the user is prompted to check the field
2	Made sure the user can change and reset passwords	2	Implemented the field checks to make sure the reset password is not the same as the previous one

Product	GymWorkout Login Verification Unit Testing Inspection
Date	09/22/2017
Author	Dhiman Swadia
Moderator	Manoj Polisetti
Inspector	Sanat Mouli

Defect #	Description	Severity	How it was corrected
1	Click on the + button to add number of reps	3	Number incremented should be to the number of clicks on the + button
2	Click on the - button to add number of reps	2	Number decremented should be to the number of clicks on the - button