

# Getaway

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Design Inspection, Code Inspection and Unit Testing - Team 12

Date: 8th February 2019

## Team members:

- Aldio Ngudjiharto
- Avinash Singh
- Daniel Larken
- Dhriti Chawla
- Stefany Felicia Gunawan Go

**Project Coordinator:** Pongthip Srivarangkul

## Design Inspection Defects (20 points)

The design inspection defects should reveal the defects which occur while combining the modules or during the interaction between the modules. We look at how clearly you have understood the defects that could occur from a design perspective, the solutions/fixes provided and the severity assigned to each defect.

Product	Signup-Login Design Inspection		
Date	02/03/19		
Author	Getaway Team		
Moderator	Pongthip Srivarangkul		
Inspectors	Aldio, Avinash, Dhriti,		
Recorder	Stefany, Daniel		
Defect #	Description	Severity	How Corrected
SDI_1	After opening the app, the “sign up/login” page should appear first	2	After opening the app, users are now asked to

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	instead of the map showing up. This way users would be verified before looking at the location of other users.		login/sign up first.
SDI_2	After creating an account, the user is directed to the “map” page, but should be directed to the login page to verify the credentials.	2	After creating an account, the user now directed to the login page.
SDI_3	When the user attempted to sign up through Facebook, there is no pop-up facebook sign in page.	3	When the user attempted to sign up through facebook, now there is a pop-up facebook sign in page.
SDI_4	User login module does not contain a component for checking uniqueness of username.	1	User login module now has functionality for checking uniqueness.
SDI_5	When the user signs into the app, they are logged out every time they close the app.	3	User sign in persists after fixing the defect.
SDI_6	When the user enters their password during signup/login, the password should be displayed as dots instead of displaying the text.	2	Password is now displayed as dots when being typed.
SDI_7	There was no distinction between an account login page and an account registration page	2	Segmented control allows users to switch between the pages with labels and button titles that change depending on which form is being accessed at that moment.

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SDI_8	Password text field does not sensor password inputs	1	Password text field is categorized as secure text field and sensor inputs when user enter their password
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Product	Map Design Inspection		
Date	02/06/19		
Author	Getaway Team		
Moderator	Pongthip Srivarangkul		
Inspectors	Avinash, Daniel, Stefany		
Recorder	Aldio, Dhriti		
Defect #	Description	Severity	How Corrected
MDI_1	When a user opens the app, initially if they have no friends added, then the map does not show up at all on the main page.	1	Even if the user does not have friends added, user sees an empty map, with no pins.
MDI_2	Initially planning on using Google maps, but Apple maps and their frameworks seem to be more compatible with Xcode	1	Our project now works using Apple maps.
MDI_3	Even after selecting “Enable” to allow app to view location, it cannot be viewed.	1	Need to add a specific Allowance code into info.plist, that allows the app to view your location

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MDI_4	Initially planning on having a drop-down menu with the 3 map types, but need to find a more user-friendly interface feature	3	Created using UISegmentedControl to provide a clean and modern user interface.
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Product	Tab View Controller Design Inspection		
Date	02/06/19		
Author	Getaway Team		
Moderator	Pongthip Srivarangkul		
Inspectors	Daniel, Stefany		
Recorder	Aldio, Avinash, Dhriti		
Defect #	Description	Severity	How Corrected
NDI_1	The tab view controller seems too clustered with the “My settings” tab along with other tabs	1	The settings option has been moved to the user’s profile page removing it from the tabs
NDI_2	Labels on tabs were too small to be seen - not user friendly	2	Intuitive user-friendly icons including “map” and “profile” icons are used to mark every tab

Product	Profile Design Inspection
Date	02/07/19
Author	Getaway Team

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Moderator	Pongthip Srivarangkul		
Inspectors	Aldio, Dhriti, Avinash		
Recorder	Daniel, Stefany		
Defect #	Description	Severity	How Corrected
PDI_1	The “change username” module in the profile page does not contain a component for checking uniqueness of username after user chooses a new one.	1	The “change username” module now contains functionality for checking the uniqueness of a new username.
PDI_2	The profile page for the user looks too cluttered with all the required buttons.	3	Add a new button in the profile page called settings that contains settings such as resetting username and logging out.

## Code Inspection Defects (40 points)

For code inspection, we expect the defects arising from inefficient or wrong coding techniques which could result in exceptions, buffer overflow etc. We will also check for the solutions/fixes provided and the severity assigned to each defect.

Given below are two code snippets with a small change. One of them could result in a run- time exception. Identifying the defect would help you in your code inspection process.

Product	Signup-Login Code Inspection
Date	02/08/19

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Author	Getaway Team		
Moderator	Pongthip Srivarangkul		
Inspectors	Aldio, Avinash, Dhriti		
Recorder	Stefany, Daniel		
Defect #	Description	Severity	How Corrected
SCI_1	When a user creates a username for their account, they should not be allowed to enter special chars, only alphanumeric chars.	1	We now check if the username consists of just alphanumeric chars.
SCI_2	When creating an outlet for the sign up button, the argument entered was “AnyObject”, and hence the sender was not of the UIButton type	1	Fixed by changing the sender to UIButton instead of AnyObject
SCI_3	When creating an input for sign in field, accidentally created a label for it.	1	Fixed by changing it to the input field.

Product	<b>Map Code Inspection</b>
Date	02/08/19
Author	Getaway Team
Moderator	Pongthip Srivarangkul
Inspectors	Avinash, Daniel, Stefany
Recorder	Aldio, Dhriti

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Defect #	Description	Severity	How Corrected
MCI_1	In the mapSelectionChanged method for UISegmentedControl- for checking which map to display, the switch case checked 0, 1 and then 3, it did not check for case 2 of the map, hence, displayPersonalAnnotations() wasn't called and "My map" was not being shown.	1	Changed the switch case statement to check for case 2.
MCI_2	While checking for which map to be shown to the user, the code was only checking when the user clicked on the segmented control, which meant that displayPublicAnnotations() was not called.	1	Fixed by making a new function called updateAnnotations() which is called every time the mapview is loaded and when the user selects a different option in the UI Segmented control.
MCI_3	When the user clicks on a pin on the map, the usernames of the user who's pin it is, does not show up.	2	Added a title for displaying the username to allow that to display on the map.

Product	Tab View Controller Code Inspection
Date	02/08/19
Author	Getaway Team
Moderator	Pongthip Srivarangkul

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Inspectors	Aldio, Daniel, Stefany		
Recorder	Avinash, Dhriti		
Defect #	Description	Severity	How Corrected
NBCI_1	Clicking on “My profile” does not change the view controller onto the profile page.	1	Created the missing link that would take user to profile page upon the click.

Product	Profile Code Inspection		
Date	02/08/19		
Author	Getaway Team		
Moderator	Pongthip Srivarangkul		
Inspectors	Aldio, Avinash, Stefany		
Recorder	Daniel, Dhriti		
Defect #	Description	Severity	How Corrected
PCI_1	The settings button on the profile page takes the user to the settings page, however there is not a way to get back.	1	We are currently working on how to fix this error and properly connect the two.



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## Unit Testing Defects (40 points)

For unit testing, we expect you to clearly define modules of your product, to identify the input and output of each module, and to list down the defects found during the unit testing of each module. We will also check for the solutions/fixes provided and the severity assigned to each defect.

Product	Signup-Login Unit test		
Date	02/08/19		
Author	Getaway Team		
Defect #	Description	Severity	How Corrected
SLT_1	User leaves any of the username/ password/ email fields blank.	1	User gets a dialogue prompt asking them to fill in all the fields.
SLT_2	Password used for sign up is of length less than 6	1	User gets a dialogue prompt asking them to have a password of at least 6 characters
SLT_3	An already registered email id is used to sign up with a different password	1	User gets a dialogue prompt asking them to login instead of signing up
SLT_4	User inputs an invalid email address	1	User gets a dialogue that requires email address to not be badly formatted (requires a “@” and ends with “.com” or other valid domain”)
SLT_5	User inputs in password text field	1	User input is sensed out

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Product	Maps Unit test		
Date	02/08/19		
Author	Getaway Team		
Defect #	Description	Severity	How Corrected
MUT_1	When the user clicked on Global/Friends/Mine tab, it doesn't show the right map	1	Make a new function that called every time the mapview is loaded and the user selects a different option
MUT_2	When the user clicks on the “Global” map, the app does not display any pins from global users.	1	Function that decides which pins to display on the map is corrected. Map now displays global users’ pins.
MUT_3	When the user clicks on the “Friends” map, the app does not display the map with the correct set of pins to the user.	1	Function that decides which pins to display on the map is corrected. Map now displays the user’s friends’ pin.
MUT_4	When the user clicks on the “Mine” map, the app does not display the map with the correct set of pins to the user.	1	Function that decides which pins to display on the map is corrected. Map now displays the user’s pins.
MUT_5	When the user clicks on the “Global” map, the app displays pins from global users, but fails to include the user’s pins and friends’ pins.	2	Additional functionality was added to the method that puts global pins on the map. Function now adds pins from global users, user’s friends, and user themselves.

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MUT_6	After the user clicks on one of the maps, and then clicks onto another, the app does not remove the pins associated from the last map.	1	Added a method that deletes all the pins on the map. This method is called whenever the user switches maps and then the correct pins are added back.
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Product	Tab View Controller Unit test		
Date	02/08/19		
Author	Getaway Team		
Defect #	Description	Severity	How Corrected
TUT_1	When user clicks on Map tab	1	Current page disappears and map page appears
TUT_2	When user clicks on Friends tab	1	Current page disappears and friends list appears
TUT_3	When user clicks on Chats tab	1	Current page disappears and chats history list appears
TUT_4	When user clicks on Profile tab	1	Current page disappears and user's own profile page appears