Getaway

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Incremental Testing and Regression Testing - Team 12
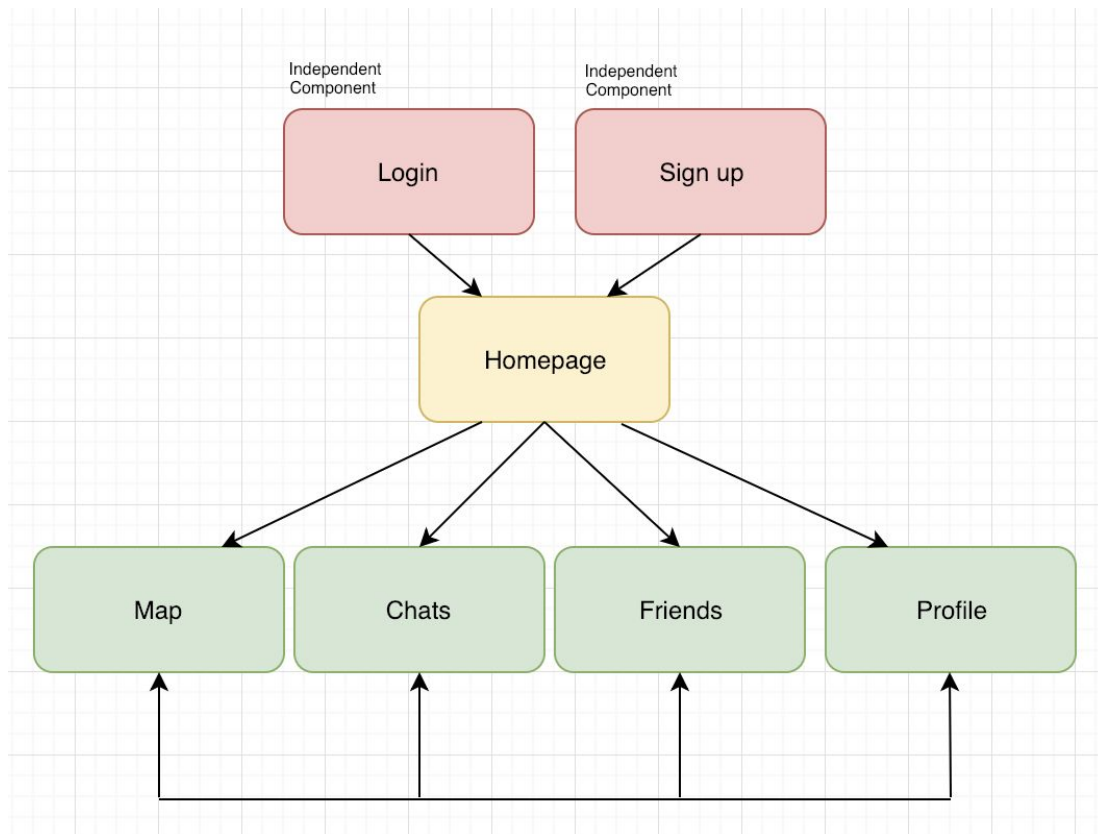
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1.1 Define all components

Components:
- **Login Component**
    - *Input:* Email, password, google credentials, facebook credentials.
    - *Output:* Invalid password credentials would prompt the user to re-enter credentials, valid credentials would lead to a successful login.

- *Dependent components:* After the user successfully logs in, the homepage component is called.

- **Sign up Component**
  - *Input:* Email, password, username, first name, and last name text fields.
  - *Output:* Invalid entries into any of the text fields will display an error message, valid entries will redirect to the homepage.
  - *Dependent components:* After a user successfully registers an account, the homepage component is called.

- **Homepage Component**
  - *Input:* Touch on "Map", touch on "Chat", touch on "Friends", touch on "Profile".
  - *Output:* Directed to Map Component, Directed to Chat Component, Directed to Friends Component, Directed to Profile Component.
  - *Dependent components:* Homepage Component will be called every time user login and stays until the user logs out. It will call Map/Chat/Friends/Profile Component if assigned.

- **Map Component**
  - *Input:* Touch on pin, search on search bar, touch on button to add, and click button to change map types.
  - *Output:* Touching pin gets details, search bar gets location suggestions, touching the '+' button allows the user to add a new pin to the map, and clicking button allows user to change which map is being displayed.
  - *Dependent components:* This component will be called when the user clicks "Map" from the Homepage Component.

- **Chat Component**
  - *Input:* Scroll down on the list, click on a friend's chat, click on '+' button.
  - *Output:* Scrolling down moves through the user's list of chats, clicking on a friend's chat redirects the user the chat, clicking on the '+' button allows the user to start a new chat with a friend.
  - *Dependent components:* This component will be called when the user clicks "Chat" from the Homepage Component.

- **Friends Component**
  - *Input:* Scroll down on the list, click on '+' button, click on a specific friend from the list.
  - *Output:* Help the user to add a new friend, user directed to that specific friend's profile.
  - *Dependent components:* This component will be called when the user clicks "Friends" from the Homepage Component.

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- **Profile Component**
    - _Input:_ Click on the profile picture, Click edit bio, click logout button.
    - _Output:_ Can change or remove profile picture, update user's bio, user will be logged out and redirected to login page
    - _Dependent components:_ This component will be called when the user clicks "Profile" from the Homepage Component.

1.2 **Which form of incremental testing did you follow**

We decided to work using a **top-down testing approach** for our iOS app - Getaway. This is because we wanted to test our upper-level modules first, which are the core components, hence we wanted to ensure they're well implemented before we started onto our lower-level components.

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2. **Incremental and Regression Testing**

Module 1	Login Component

Incremental testing

Defect No.	Description	Severity	How Corrected
1	Login Component should show the right error message when username, password, google credential, or facebook credential are incorrect	3	Send the correct error message for every case of wrong credentials.
2	Application should not crash when user submits blank login credentials and the user should be shown the correct error message. User should still be able to enter login information again	1	Check both email and password text fields, if they are blank do not complete the login request and give user correct error message
3	Only right email and password should enable user to login	3	Check the username and password user entered to match with database
4	"Forgot Password" should redirect user to enter username so user can get an email contained instructions	1	Implement 'forgot password' function with firebase

Regression testing

Defect No.	Description	Severity	How Corrected
1	App does not permit "login from facebook" for user's who are not granted permission by app admin	3	**<CHECK THIS>** Add each user to the list of app developers

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Module 2	Sign-up Component

Incremental testing

Defect No.	Description	Severity	How Corrected
1	Application should not crash when user submits blank register credentials and user should be shown the correct error message. User should still be able to input user's sign up information again	1	Check both email and password text fields, if they are blank do not complete the login request and show the user the correct error message
2	User trying to register with already existing email address should not complete the sign-up process	1	Changed the code to only proceed if the email address entered is unique from the ones in the database
3	When we were adding a UIAlert, the code seemed to show errors for the syntax	1	Changed the syntax to match the latest version of Xcode 9

Regression testing

Defect No.	Description	Severity	How Corrected
1	Clicking on "Register" button with a blank password field leads to freezing of the app.	1	Update the sign-up view controller's code to make sure it does not freeze in the future

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Module 3	Homepage Component

Incremental testing			
Defect No.	**Description**	**Severity**	**How Corrected**
1	Clicking on each tab somehow does not take you to the right page.	2	Call the right component that corresponds to the right icon on the storyboard

Regression testing			
Defect No.	**Description**	**Severity**	**How Corrected**
1	The icons uploaded for the tab bar seem to be of the wrong size, hence popping out of the bar.	3	Upload the correct size of each icon in our assets folder.
2	The tab bar seems to be unresponsive when we click too many times on the same tab.	2	Fixed it by correcting a connection on the storyboard

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Module 4	Map Component

Incremental testing			
Defect No.	**Description**	**Severity**	**How Corrected**
1	When the user clicks on the pin on the app, the friend's name should be displayed	3	Added subtitle in add-Annotation-Using-Coordinate's property for the pin
2	All the pins displayed on the map are of the same color, regardless of user's friends or not.	3	Hasn't been corrected… yet

Regression testing			
Defect No.	**Description**	**Severity**	**How Corrected**
1	When swiping across the map, it seems to be moving extremely slow	2	Close other application on your device to make it run faster (not an app problem)
2	Zooming in the map requires a double tap by the user	3	Add a button to allow the user to zoom in, instead of double tapping.
3	After zooming in on the map, there is no way to zoom-out again.	3	Hasn't been corrected… yet

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Module 5	Chat Component

Incremental testing			
Defect No.	**Description**	**Severity**	**How Corrected**
1	<Working on this in Sprint 2>		

Regression testing			
Defect No.	**Description**	**Severity**	**How Corrected**
1	<Working on this in Sprint 2>		

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Module 6	Friends Component

Incremental testing

Defect No.	Description	Severity	How Corrected
1	<Working on this more in Sprint 2>		
2			
3			

Regression testing

Defect No.	Description	Severity	How Corrected
1	When the user tried to click on the Friends tab, through the home page, user gets an error called: this class is not key value coding-compliant for the key searchBar.'		Needed to click on "Inherit module from target on the "Inspectors panel" on the right side of the screen
2	The search bar on the friendsViewcontroller does not seem to be interacting with the user		Added the missing connection that was not allowing us to click/type on search bar.

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Module 7	Profile Component

Incremental testing			
Defect No.	**Description**	**Severity**	**How Corrected**
1	User was not able to enter anything in their "Bio text box", since it seemed to be a label.	1	Changed "Bio text box" from label to TextView
2	Not able to add a placeholder text for the Bio Text View box	3	Hasn't been corrected… yet
3	When trying to log out from the settings tab in the profile, the app crashes	1	Attach the logout function to return to the correct storyboard and hence the view controller.
4	When calling the API Call that gets the user details, the fields appear to be blank.	1	Called the API Call inside the viewDidLoad itself so that it is synchronously loaded

Regression testing			
Defect No.	**Description**	**Severity**	**How Corrected**
1	When the user tried to open the "Settings" page, through the profile page, user gets an error called: this class is not key value coding-compliant for the key changeUsernameButton.'	1	Removed the connection to that button, created a new one and did a rebuild of the app from the simulation
2	The back button is not working from ProfileSettingViewController	1	Added code to make it go back to the tab bar controller and allow it to redirect to the profile page
3	The full name does not appear on the profile page for some reason.	2	Made the label bigger to fit in the entire name of the user

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Updated Product Backlog

Backlog Id	Functional Requirement	Hours	Status
1	As a user, I would like to register for an account.	7 hr	Completed in Sprint 1
2	As a user, I would like to login via linking to another existing account (Facebook and Google).	7 hr	Completed in Sprint 1
3	As a user, I would like to be able to login to my Getaway account.	7 hr	Completed in Sprint 1
4	As a user, I would like to be able to select my own unique username for the application.	8 hr	Completed in Sprint 1
5	As a user, I would like to be able to logout of my Getaway account.	6 hr	Completed in Sprint 1
6	As a user, I would like my login to persist even after closing the app.	6 hr	Completed in Sprint 1
7	As a user, I would like to be able to reset my account password.	8 hr	Planned for Sprint 2
8	As a user, I would like to be able to recover access to my account via e-mail when I forget my password.	8 hr	Planned for Sprint 2
9	As a user, I would like to be able to add/remove a profile picture for my Getaway account.	6 hr	Planned for Sprint 2
10	As a user, I would like to be able to edit my profile information, specifically my username.	6 hr	Completed in Sprint 1
11	As a user, I would like to be able to search for other users by username.	12 hr	Incomplete: Move to Sprint 2
12	As a user, I would like to be able to view user profiles from the pins on the map.	12 hr	Planned for Sprint 2

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13	As a user, I would like to be able to add friends by searching them by their username	8 hr	Incomplete: Move to Sprint 2
14	As a user, I would like to add places that I have visited.	8 hr	Incomplete: Move to Sprint 2
15	As a user, I would like for the places that I have visited to appear with pins on my personalized map.	8 hr	Completed in Sprint 1
16	As a user, I would like to view a map with pins showing places my friends have visited.	8 hr	Incomplete: Move to Sprint 2
17	As a user, I would like to view a map with pins showing places all users have visited.	8 hr	Incomplete: Move to Sprint 2
18	As a user, I would like to be able to search for places and see the users that have already visited that place.	8 hr	Planned for Sprint 2
19	As a user, I would like to be able to see a list of my friends.	8 hr	Planned for Sprint 2
20	As a user, I would like to able to view the profiles of my friends.	10 hr	Planned for Sprint 2
21	As a user, I would like to be able to send messages to other users.	10 hr	Planned for Sprint 2
22	As a user, I would like to see a list of users that I have messaged previously.	10 hr	Planned for Sprint 2
23	As a user, I would like to be able to see my chat history with other users.	10 hr	Planned for Sprint 2
24	As a user, I would like to distinguish the pins between that belonging to my friends, everyone else, and my own by color.	8 hr	Planned for Sprint 2
25	As a user, I would like to be able to see tabs that help me navigate from one page to another.	6 hr	Completed in Sprint 1

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26	As a user, I would like to be able to upload pictures pertaining to a location.	10 hr	If time allows
27	As a user, I would like to be able to select the color of the pins on the map.	6 hr	If time allows