

Getaway

Been There, Done That

Project Backlog - Team 12

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Team members:

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

Project Coordinator: Pongthip Srivarangkul

Problem Statement:

Exploring new places around the world has become easier with the help of online resources like Google Maps. However, when it comes to knowing the insider tips for even the remotest places, we're lacking. Gaining tips from people who have already visited certain places could prove beneficial to a lot of travel buffs and it would help them plan their trips by foreseeing the problems they could encounter and in turn, planning ahead. *Getaway* aims to connect prospective travelers to people who have already visited a certain place thus enabling them to gain valuable knowledge from the insight of their 'travel guides'. This would help people plan accordingly and gain sufficient knowledge regarding a place before they even visit it ensuring a safe and enjoyable trip.

Background information:

Targeted Users

Modern travelers know no boundaries. With sufficient technology and faster and better transportation methods, traveling to new places has not only become more common but it has also become more affordable. This being said, a lot of travelers run into very diverse problems pertaining to certain places. As a result, they have a lot to figure out during the trip which makes the trip less enjoyable. *Getaway* aims to take away these problems by letting users connect with fellow travelers who have already visited a place of their choice. This would help them gain knowledge regarding the place and prepare them for their vacation. This would ensure a safe and happy trip. Moreover, the users also have access to an interactive map display which shows the places that have been visited by the people that the user is connected with. Our target audience would be people who love traveling and exploring new places around the globe.

Similar Applications

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A lot of applications like TripAdvisor and Google Maps allow users to upload their reviews regarding certain places. However, no application in the market currently focuses solely on connecting aspiring travelers to fellow travelers who have already visited a certain place.

Limitations

Pre-existing applications are already very commonly used. Travel agents also provide a lot of information to their customers. Moreover, our application would be solely dependent on the willingness of our users to enter places they have visited and also to help out fellow travelers.

Environment:

- We are going to use Xcode and Swift to develop the iOS application
- For our user account system, we are going to use Facebook or Google OAuth
- The database that we are going to use is FireBase. We will use it to store user profiles, countries/cities the users have visited, chat history, and other user data
- We will use Apple's MapKit framework to display maps with pins

Functional Requirement:

Backlog Id	Functional Requirement	Hours	Status
1	As a user, I would like to register for an account.	7 hr	Planned for Sprint 1
2	As a user, I would like to login via linking to another existing account (Facebook and Google).	7 hr	Planned for Sprint 1
3	As a user, I would like to be able to login to my Getaway account.	7 hr	Planned for Sprint 1
4	As a user, I would like to be able to select my own unique username for the application.	8 hr	Planned for Sprint 1

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5	As a user, I would like to be able to logout of my Getaway account.	6 hr	Planned for Sprint 1
6	As a user, I would like my login to persist even after closing the app.	6 hr	Planned for Sprint 1
7	As a user, I would like to be able to reset my account password.	8 hr	
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	
9	As a user, I would like to be able to add/remove a profile picture for my Getaway account.	6 hr	
10	As a user, I would like to be able to edit my profile information.	6 hr	Planned for Sprint 1
11	As a user, I would like to be able to search for other users by username.	12 hr	Planned for Sprint 1
12	As a user, I would like to be able to view user profiles from the pins on the map.	12 hr	
13	As a user, I would like to be able to add friends by searching them by their username	8 hr	Planned for Sprint 1
14	As a user, I would like to add places that I have visited.	8 hr	Planned for Sprint 1
15	As a user, I would like for the places that I have visited to appear with pins on my personalised map.	8 hr	Planned for Sprint 1
16	As a user, I would like to view a map with pins showing places my friends have visited.	8 hr	
17	As a user, I would like to view a map with pins showing places all users have visited.	8 hr	Planned for Sprint 1

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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	
19	As a user, I would like to be able to see a list of my friends.	8 hr	
20	As a user, I would like to be able to view the profiles of my friends.	10 hr	
21	As a user, I would like to be able to send messages to other users.	10 hr	
22	As a user, I would like to see a list of users that I have messaged previously.	10 hr	
23	As a user, I would like to be able to see my chat history with other users.	10 hr	
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	
25	As a user, I would like to be able to see tabs that help me navigate from one page to another.	6 hr	Planned for Sprint 1
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

Non-Functional Requirement:

1. As a developer, I would like the application to be interesting, instinctive, and have a visually appealing user interface.
2. As a developer, I would like the application to run on iOS devices
3. As a developer, I would like to protect the information our users provide
4. As a developer, I would like to create an interface that's intuitive and simple so that a layperson is can use it easily

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5. As a developer, I would like to use the MapKit framework in iOS to display the maps
6. As a developer, I would like my server to be efficient and my response time should be within a second. This should be handled by Firebase.
7. As a developer, I would like my server to be able to handle multiple requests simultaneously, so that the average response time for each request is less than a second. This should be handled by Firebase.
8. As a developer, I would like my implementation to use efficient algorithms so that the response time to any of the user's request is minimal thus providing a good user experience.

Use Cases:

Serial no.	Action	System Response
1.	Case: 1. As a user, I would like to register for an account, 4. As a user, I would like to be able to select my own unique username for the application	
	1. User clicks "Sign Up" 2. Inserts user's credentials 3. User clicks the register button 6. User enters username	4. Put user's information into database 5. Prompt user to enter a unique username if Signup is successful 7. Take the user to homepage if a unique username is entered
2.	Case: 2. As a user, I would like to login via linking to another existing account (Facebook and Google). 4. As a user, I would like to be able to select my own unique username for the application	
	1. User clicks "Sign up with Facebook" or "Sign up with Google"	2. Take the user to their Google or Facebook account on their browser

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	5. User enters username	<p>3. If authentication is successful, put user's information into database</p> <p>4. Prompt user to enter a unique username if Signup is successful</p> <p>6. Take user to homepage if unique username is entered</p>
3.	Case: 3. As a user, I would like to be able to login to my Getaway account.	
	<p>1. User clicks "Sign in" button</p> <p>2. User puts username or email, and password then click "Create an Account" or "Sign in with Facebook" or "Sign in with Google"</p>	<p>3. Check user's credentials</p> <p>4. Take users to homepage if account sign in is successful</p>
4.	Case: 4. As a user, I would like to be able to select my own unique username for the application	
	<p>1. User signs up for the first time</p> <p>2. User sets a username</p>	<p>3. Put username information into database</p> <p>4. Take users to homepage if username registration is successful</p>
5.	Case: 5. As a user, I would like to be able to logout of my Getaway account.	
	<p>1. User clicks the user's profile tab</p> <p>2. User clicks the 'logout' button</p>	<p>3. After a successful logout, the sign in or sign up page appears</p>
6.	Case: 6. As a user, I would like my login to persist even after closing the app.	

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	1. User logs into the app 2. User closes the app 4. User opens the app, and is still logged in	3. Due to persistent user feature, the system does not log the user out
7.	Case: 7. As a user, I would like to be able to reset my account password.	
	1. User clicks the user's profile tab 2. User clicks 'Change Password' 4. User enters the old password and the new password	3. Open change password page opens up 5. Update the database, take users back to profile page, and "password successfully changed" message appears
8.	Case: 8. As a user, I would like to be able to recover access to my account via e-mail when I forget my password.	
	1. User clicks 'forget password' button in 'sign in' page 2. User enters their unique username 5. User opens email and clicks on the link 6. User inputs new password	3. Check which email ID it is that corresponds with the unique username provided by the user 4. Send a reset password link to user's email 7. Update database with new password 8. Take users to homepage if reset password is successful
9.	Case: 9. As a user, I would like to be able to add/remove a profile picture for	

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	my Getaway account.	
	1. User clicks the “My profile” tab 2. User clicks on the user’s profile picture 4. User chooses either to open camera or to choose from gallery	3. Options for “open camera”, “choose from gallery”, and “delete profile picture” appear 5. Update the database, take users back to profile page, and “profile picture changed” message appears
10.	Case: 10. As a user, I would like to be able to edit my profile information.	
	1. User clicks the user’s profile tab 2. User clicks the edit button next to the attribute that the user wants to change 3. User clicks “save” button	4. Update the database, take users back to profile page, and “profile updated” message appears
11.	Case: 11. As a user, I would like to be able to search for other users by username. 13. As a user, I would like to be able to add friends by searching them by their username	
	1. User navigates to the “My friends” tab 2. User clicks the search bar and enter the desired user by username	3. Search the database for users corresponding to the text entered in the search bar 4. Display user’s found in database to the user

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	5. User selects the desired user by their displayed username	
12.	Case: 12. As a user, I would like to be able to view profiles from the pins on the map.	
	1. User clicks on a pin 3. User clicks add friend	2. Pin's owner's profile page appears 4. Update the database, take users back to friend's profile page
13.	Case: 13. As a user, I would like to add places that I have visited.	
	1. User clicks the "+" button 2. Select place to add	3. Add a pin to the users map in the geolocation of the place 4. Add the coordinate to the database and "location successfully pinned" message appears
14.	Case: 14. As a user, I would like to add places that I have visited.	
	1. User inputs place name 2. User clicks on "+" button 5. User clicks either click "confirm place" or "cancel/change place"	3. App access Google Places API to search for coordinates of the place 4. Proposed coordinate is suggested to the user 6. If place is confirmed, add the coordinate to the database and "location successfully pinned" message appears. If user cancels or changes place, app takes user back to homepage
15.	Case: 15. As a user, I would like for the places that I have visited to appear	

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	with pins on my personalised map	
	1. User clicks the map tab 3. User observes red pins to be the places where the user themselves have visited	2. Map appears with red pins
16.	Case: 16. As a user, I would like to view a map with pins showing places my friends have visited.	
	1. User clicks the map tab 3. User observes blue pins to be the places where friends have visited	2. Map appears with blue pins
17.	Case: 17. As a user, I would like to view a map with pins showing places all User clicks have visited.	
	1. User clicks the map tab 3. User observes red pins to be places where the user themselves have visited, blue pins to be places where friends have visited, and green pins to be places where other non-friends users have visited	2. Map appears with red, blue, green pins
18.	Case: 18. As a user, I would like to be able to search for places and see the users that have already visited that place.	
	1. User opens their map 2. User searches for a specific location on the map	3. App searches for user's desired location 4. App uses the database the create a list of users that have a pin in that

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	5. User looks at list to see who has put a pin there	location
19.	Case: 19. As a user, I would like to be able see a list of my friends.	
	1. Click the user's friends list tab	2. App retrieves information on users' id who are in the user's friends list 3. Displays list of friend's names
20.	Case: 20. As a user, I would like to able to view the profiles of my friends.	
	1. User clicks user's friends list tab 2. User clicks the profile that user wants to see	3. The profile page of user's friends appears
21.	Case: 21. As a user, I would like to be able to send messages to other users.	
	1. User clicks the profile of another user 3. User clicks on the "chat" button 5. User clicks on message input box and types message 6. User clicks on "Send message" button	2. The profile page of that user appear 4. Chatbox appears with message input box 7. Message is stored in database to be retrieved by participants of the chat
22.	Case: 22. As a user, I would like to see a list of users that I have messaged previously.	
	1. User clicks on the "chats" tab on the bottom navigation bar	2. The chats tab opens up with all the

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		names listed
23.	Case: 23. As a user, I would like to be able to see my chat history with other users.	
	<p>1. User clicks the profile of another user</p> <p>3. User clicks on the “chat” button</p> <p style="text-align: center;">AND</p> <p>1. User clicks on the “Chats” tab in the bottom navigation bar</p> <p>3. User can click on a particular chat from the list</p>	<p>2. The profile page of that user appear</p> <p>4. Chatbox appears, retrieve chat history from database, shows chat history if chat history is found</p> <p>2. The chats tab opens up with all the previous chats listed</p> <p>4. Chatbox appears, retrieve chat history from database, shows chat history.</p>
24.	Case: 24. As a user, I would like to distinguish the pins between that belonging to my friends, everyone else, and my own by color.	
	1. User opens the map interface	2. The pins on the map are displayed one of three colors based off who placed that particular pin
25.	Case: 25. As a user, I would like to be able to see tabs that help me navigate from one page to another.	
	1. User navigates to homepage	2. App displays tabs in the bottom of the screen

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26.	Case: 26. As a user, I would like to be able to upload pictures pertaining to a location. (If time allows)	
	<ul style="list-style-type: none">1. User inputs place name2. User clicks on “+” button5. User clicks on the location and pressed the button which allows them to add a picture7. User chooses either to open camera or to choose from gallery	<ul style="list-style-type: none">3. App access Google Places API to search for coordinates of the place4. Proposed coordinate is suggested to the user6. Option to upload picture appear8. Picture gets uploaded, stored in database along with map coordinates
27.	Case: 27. If time allows, as a user, I would like to be able to select the color of the pins on the map	
	<ul style="list-style-type: none">1. User navigates to map page3. User clicks on pins5. User clicks on choice of color	<ul style="list-style-type: none">2. Existing pins should appear with their default colors according to whether they are belonging to the user, user’s friends, and user’s non-friends4. Details on pin’s owner and exact address location appears, on top of an option to change pin color to a personalized color6. Pin color changes to chosen color, saves to database