Technical

Manual

Trip Diary

May 2020

Revision Sheet

Release No.	Date	Revision Description
Rev. 0	04/02/2020	Technical Manual
Rev. 1	05/01/2020	Replacement of old screenshots with new photo of application interface
Rev. 2	05/07/2020	Updated features such as weather API used in the application are included with descriptions of use and new photos

USER'S MANUAL

TABLE OF CONTENTS

trip
diary

1.0   GENERAL INFORMATION

A.   GENERAL INFORMATION

1.1   System Overview

An application that records and documents details from a users trip:

- A software system based on the iOS Platform.
- Database Logging
- Profile Sensitive
- GPS Location Tracking
- System name or title: Trip Diary

- Operational status:
    - Mostly Operational
    - Final Stages under development

1.2   Project References

References that were used in preparation of this document in order of importance to the end user.

https://www.youtube.com/watch?v=SLkIuWx8VIk&feature=youtu.be
https://developers.google.com/maps/documentation

1.3   Authorized Use Permission

The Trip Diary Team does not currently offer a Terms of Use statement. However, as of April 2, 2020, the Trip Diary application is only to be used for academic purposes only. The Terms of Use statement will be added in future versions of this document.

1.4   Points of Contact

1.4.1 Information

The points of organizational contact (POCs) that may be needed by the document user for informational and troubleshooting purposes are currently not available.

1.4.2 Coordination

The list of organizations that require coordination between the project and its specific support function (e.g., installation coordination, security, etc.) are currently not available.

1.4.3 Help Desk

Help desk information including responsible personnel phone numbers for emergency assistance is currently not available.

1.5   Organization of the Manual

User's Manual v0.01.

1.6   Acronyms and Abbreviations

Provide a list of the acronyms and abbreviations used in this document and the meaning of each.

App: Application
MS: Microsoft
API: Application programming interface
iOS: Apple's operating system

2.0   SYSTEM SUMMARY

B.   SYSTEM SUMMARY

Trip Diary provides software in the form of an iOS app that streamlines and modernizes trip documentation for the user, who can be anyone that enjoys going on trips. This achieves this by providing the user with features that make trip logging convenient. These features include the ability to upload journal entries, photos, map pins and budget information to Trip Diary's database. Other features also make it easy to plan a trip or stay on schedule while on a trip. These features include a Calendar View, Daily Summary, Budget Alerts, attractions, suggestions, and more.

2.1   System Configuration

Trip Diary is a profile-based app, requiring the user to login to their Google account before accessing the apps features. After login in, the user must then create a trip to explore all that Trip Diary has to offer. After these steps are complete and a trip is selected, the user will be met with an easy-to-use interface that features a toolbar at the bottom of the display which contains all major features of the Trip Diary app: photos, calendar, diary, budget and map. The user may select any of these to explore the features knowing that there will always be a way back to the trip list, most likely by clicking the back button.

2.2   Data Flows

When prompted, users may input text by using an on-screen virtual keyboard. Users may also input dates by using a scroll wheel offered in iOS. Photos are not accessed until the user grants Trip Diary access to the device photos. After approval, the app will open a window for the user to select photos to upload to a journal entry, map pin, etc. GPS location is automatic after the user grants location permission to Trip Diary.

2.3   User Access Levels

The Primary user has access to their trip list and all information associated with their trips while the primary user is logged into the app. If the app is closed and reopened, the last user to login on the device will see their trip information (assuming they did not log out). If the current user logs out of the app, their trip data will be removed from the device but will repopulate and reappear once the user logs in to Trip Diary again.

3.0   GETTING STARTED

C.   GETTING STARTED

The first thing the user will see when opening the app is the login page. The user should select the Login option to continue.
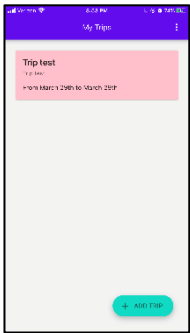
3.1   Logging On

Currently, a Google account is required to use Trip Diary. So, the user must login to their Google account by tapping on "Login with Google." The device may ask for permission to use Google to login, please grant access. Assuming the user is not already signed in to their Google account, the user must enter their User ID and Password associated with the user's Google Account. After selecting the sign in option again, the user will be brought to the setup stage in Trip Diary, where the user must add their first trip to be able to explore other features of Trip Diary.
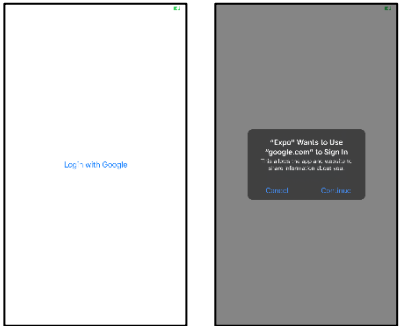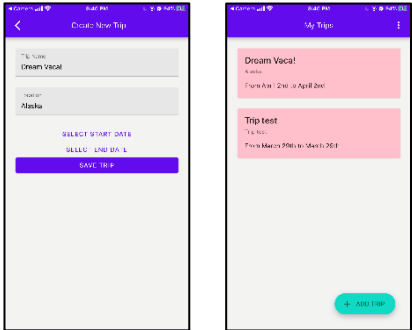
3.2   Trips

On this page of the app, the user will find their "My Trips" page. However, first time users will need to add at least one trip to get started.

3.2.1 Adding a Trip

To add a trip, the user must select the green "Add Trip" button. The app will display a page that allows the user to enter the trip information. The user must add the Trip name, location, start date and end date.

3.3   Logging Out and Exiting the System

To log out of Trip Diary, the user must tap the three vertical dots on the upper right-hand corner of the display while on the "My Trips" page. The app will then prompt the user too "Logout." Once this option is selected, the user will see the first login page with an option to login to Google again.
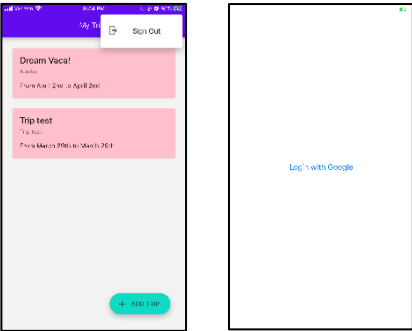
4.0   USING THE SYSTEM

D. USING THE SYSTEM

Given that most of this app's features are available when a trip is selected, this section is focused on the case when the user is on their "My Trips" page.

4.1 Photos

Photos is a feature that allows the user to add photos to a specific trip. Once a trip is selected, this feature can be accessed by tapping on the photo icon at the bottom of the page (first icon from the left on the bottom navigation bar).

4.1.1 Adding Photos

To add an image to a trip, a trip must first be selected. Then, click on the add-photo icon on the upper right-hand side of the display. If the user is adding a photo for the first time, the device will prompt the user to allow Trip Diary to access photos on the device. After granting permission, a list of photo albums that the user can choose from will appear. The user must select a photo album and then tap on the desired photo. Trip Diary will then upload the photo to the database (this should not take longer than 10 seconds). Upon success, the user will see the photo they have uploaded along with any previous uploads.
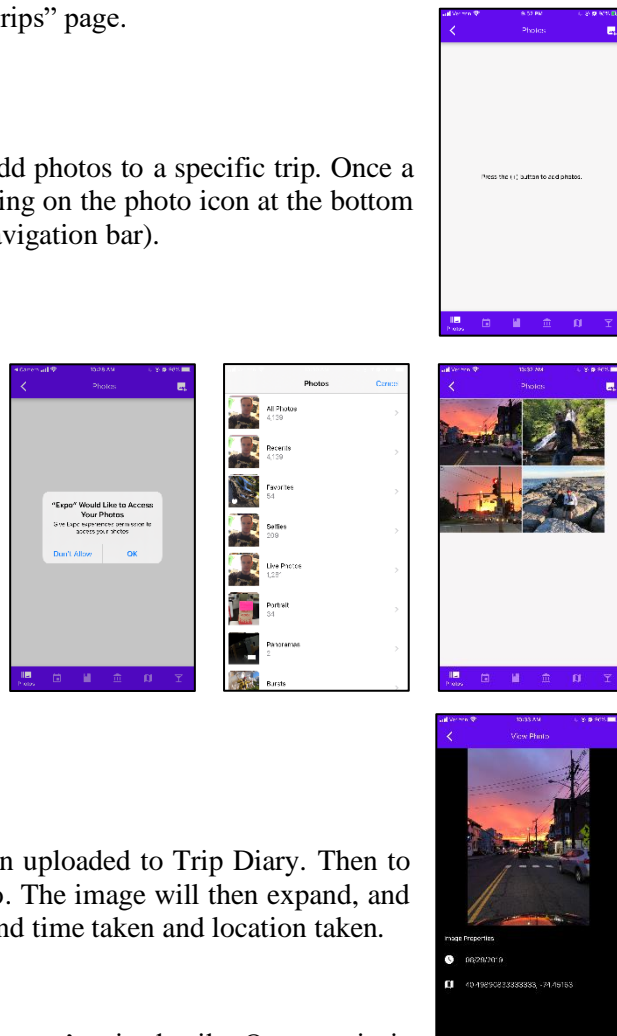
### 4.1.2 Viewing Photos and Image Properties

To view a photo, the image must already have been uploaded to Trip Diary. Then to view a photo, the user must simply tap on the desired photo. The image will then expand, and the app will also display the image properties such as date and time taken and location taken.

4.2 Calendar View

The Calendar View is a convenient way to see the user's trip details. Once a trip is selected, the user must simply tap on the calendar-view icon at the bottom of the page (second icon from the left on the bottom navigation bar). The calendar layout will then be displayed.

4.2.1 Daily Summary

Under the Calendar View, on the same page, the user will see the Daily Summary for the selected day on the above calendar. The Daily Summary displays all trip details for a specific day of the trip. The Daily Summary will display information such as the photos taken or uploaded, Journal entries recorded, budget details, attractions and more. Also, the newest update allows the user to see the current weather in the daily summary as well. The user must tap on a day on the calendar for the associated Daily Summary to appear.
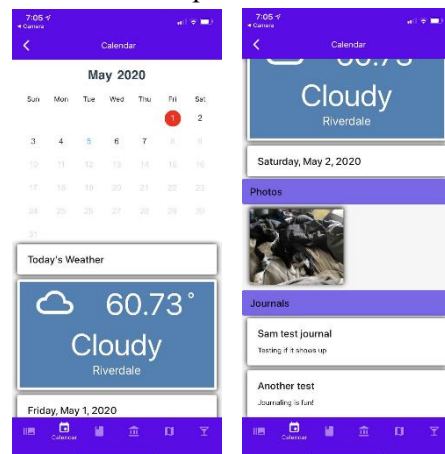
4.3   Journaling

The Journal feature allows the user to add, edit or delete journal entries comprised of different data types. Once a trip is selected, this feature can be accessed by tapping on the journal icon at the bottom of the page (third icon from the left on the bottom navigation bar).

4.3.1 Adding a Journal Entry

To add a journal entry, the user must first be on the journal page. Then the user must click on the "+" icon on the top right of the display. The app will display a page in which the user can enter the journal information such as the journal title and the journal text. After the information is entered, the user will have to tap on the check mark located at the upper right-hand corner of the screen. Upon success, the user will see the uploaded journal entry on the journal page of the app.

4.3.2 Editing a Journal Entry

To edit a journal entry the user must first be on the journal page and there must already be an entry on the list. The user must tap on the journal entry they would like to edit and then the app will open the entry for modification. Once the changes are made, the user must tap on the check mark at the upper right-hand corner of the page. Upon success, the app will return to the journal page with the updated journal entry. Note that the user now has an option to sort their journal entries by exclusive date with the most recent update.

4.3.3 Deleting a Journal Entry

To delete a journal entry, the user must first be on the journal page. The user must tap and hold down the journal entry. After a couple of seconds, release, and then an option will appear to delete the entry. If this option is selected, the app will return to the journal page. Upon success, the deleted journal entry will no longer appear on the journal page.
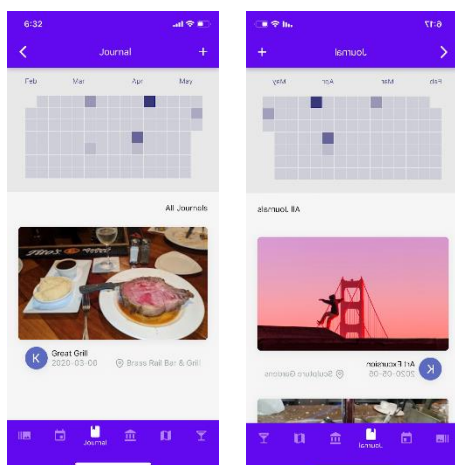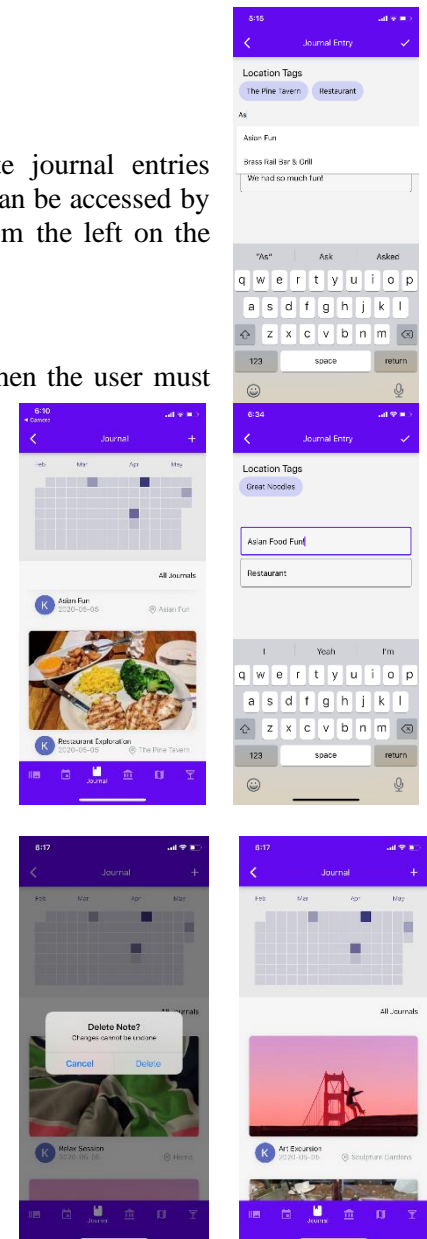
4.4   Budgeting

Budgeting is essential for trip planning and scheduling. Once a trip is selected, this feature can be accessed by tapping on the bank icon at the bottom of the page (fourth icon from the left on the bottom navigation bar).
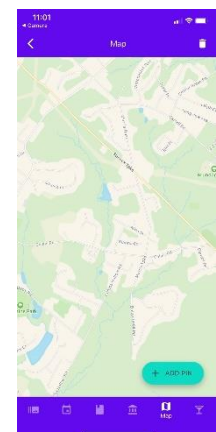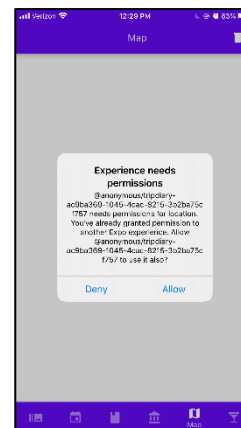
4.4.1 Adding a Budget

To add a budget, the user must first be on the budget page. Then, the user must click on the CREATE NEW BUDGET button at the bottom right-hand corner of the display. The app will display a page in which the user can enter the budget information such as the budget amount. After the information is entered, the user will have to tap on the check mark located at the upper right-hand corner of the screen. Upon success, the user will see the new budget on the budget page.
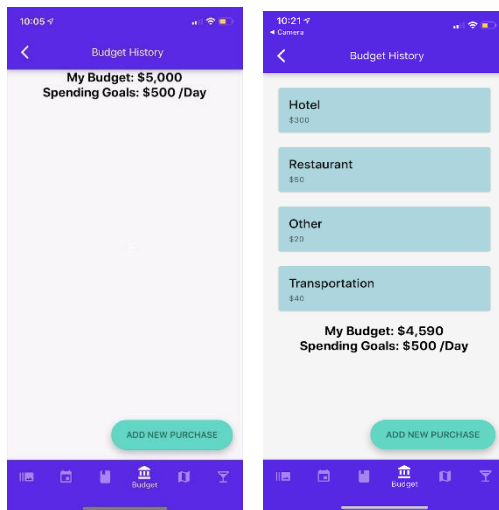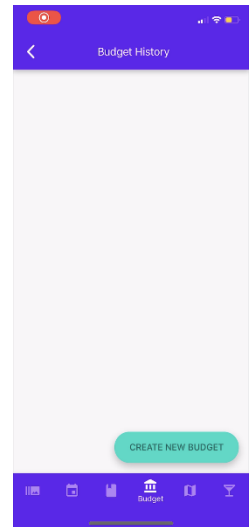
4.5   Map

Trip Diary's app feature can only be accessed when a trip is selected. Once a trip is selected, the user must tap on the map icon at the bottom of the page (fifth icon from the left on the bottom navigation bar). Trip Diary will then ask the user for permission to use the device location. Once granted access, Trip Diary will open the map page.

4.5.1 Adding a Pin

To add a pin to the map, the user must first be on the map page. Then, the user must click on the ADD PIN button at the bottom right-hand corner of the display. The app will display a page in which the user can enter the pin information such as the title of the pin and the description. After the information is entered, the user will have to tap on the SAVE PIN button located nearly in the middle of the display. Upon success, the user will see the new pin on the map. Note that the newest update includes a feature that allows for routes to pins.
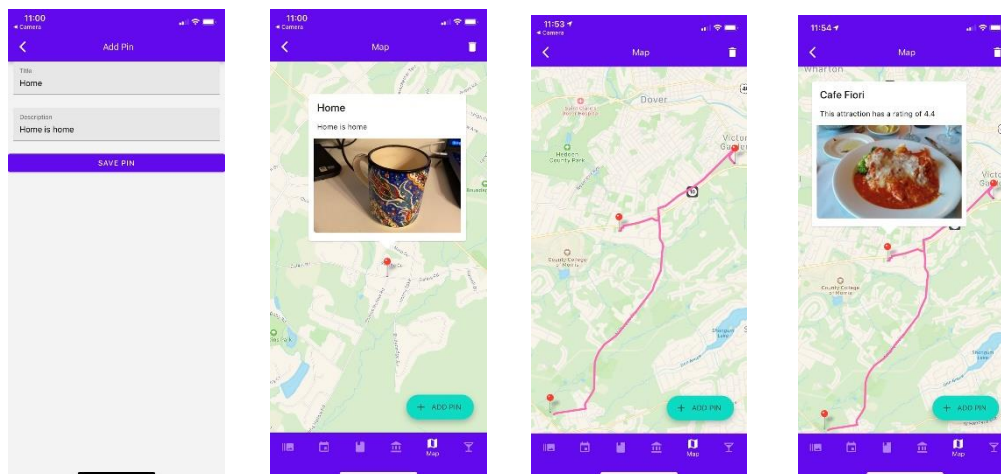

4.5.2 Deleting a Pin

To delete a pin to the map, the user must first be on the map page. Then, the user must tap on the trash-can icon located at the upper right-hand corner of the display. Tapping this icon simply toggles the delete option. The top of the page will read "Delete Pins" if the delete toggle is on. Once the toggle is on, the user should tap on the pin to delete. The app will then give an option to delete the pin. Upon success, the pin will no longer appear on the map.
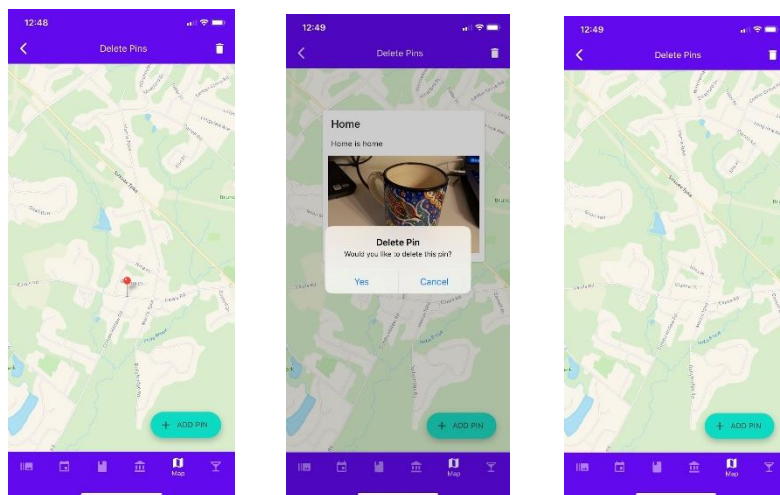
4.6   Attractions

Knowing where to find the fun is an important part of any trip. Once a trip is selected, the user must tap on the glass icon at the bottom of the page (most right icon at the bottom navigation bar). The user will then see a list of
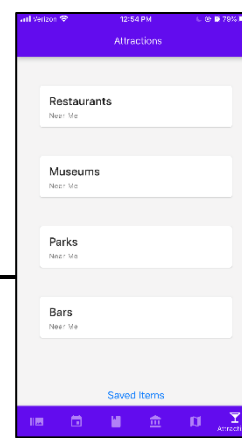
fun things to do in the area, from eating out at a restaurant to taking a walk in the park.

4.6.1 Saving an Attraction

To save an attraction, the user must first be on the attractions page. After, the user must select an attraction type from the list of available attractions such as restaurants, museums, parks or bars. Once an attraction type is tapped on, the app will open a page showing all establishments of that attraction type in the users' area. To save the attraction, the user must simply tap save at the bottom of the desired establishment. Upon success, the attraction will appear in the "Saved Items" page.

4.6.2 Viewing Saved Attractions

To view saved attractions, the user must first be on the attractions page. Then, the user must tap on "Saved Items" at the bottom of the attractions page. The "Saved Items" page will appear with all the users saved attractions.
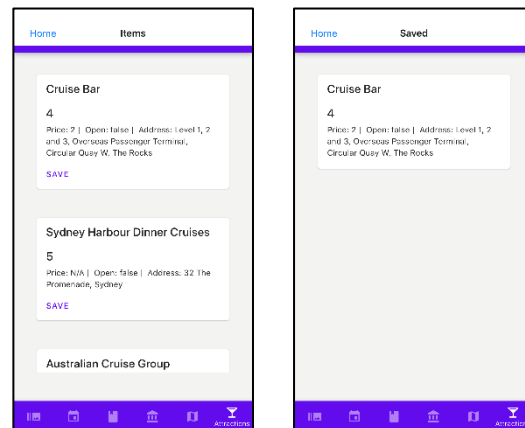
4.6.3 Deleting Saved Attractions

To delete saved attractions, the user must first be on the attractions page. Then, the user must hold down the saved attraction the user wishes to remove. An option will appear to remove the saved attraction.