

## **Deliverable 1: Functional and Non-Functional Requirements**

Note: We've received permission from Prof. Miguel Garzon to do our own project (not the Household Chore Manager).

### Functional Requirements

1. The system must allow the user to enter up to 3 highlights, on a daily basis.
2. The system must allow the user to share their daily highlights with other users.
3. The system must, on a weekly basis, prompt the user to choose 3 daily highlights from the week to become the "highlights of the week" for that week.
4. The system must, on a monthly basis, prompt the user to choose 3 weekly highlights from the month to become the "highlights of the month" for that month.
5. The system must, once a year, prompt the user to choose 3 monthly highlights from the year to become the "highlights of the year" for that year.
6. The system must, upon request, show the user the highlights of a day entered on a random day in the past.
7. The system must, upon request, show the user the highlights of that very day on all the past years the user has been using the app (e.g. on Nov 5, 2017, the user can see his/her "highlights of the day" for Nov 5, 2016, Nov 5, 2016, Nov 5, 2014, etc.)
8. The system must allow users to view the highlights of any given day, in the past.
9. The system must allow users to view the weekly highlights of any week, in the past.
10. The system must allow users to view the monthly highlights of any month, in the past.
11. The system must allow users to view the annual highlights of any given year, in the past.
12. The system must display two buttons on the main screen, one of which says "today" and the other says "explore."
13. The system must show users a screen where users can enter their daily highlights when users click on the "today" button on the home screen.
14. The system must show users an "explore menu" when users click on the "explore" button on the home screen.
15. The system must show a list the following when the user enters the explore menu: "Week in Review," "Month in Review," "Year in Review," "Today in the Past," "Visit a Random Day."
16. The system must allow users to edit the daily highlights they have entered, but only for the current day.
17. On every screen, the system must give the user the option to go back to the previous screen they were on.
18. The system must allow the user to view highlights in which other users have mentioned him/herself.
19. The system must allow users to disassociate themselves with highlights in which others have included them.
20. The system must display a message saying "Daily Highlights Submitted" after users enter their daily highlights.

### Non-Functional Requirements

1. Dr. Miguel Garzon must be consulted at least 5 times during the development process.
2. The app must be fully developed by December 4, 2017.
3. The app must be tested by ten different uOttawa students.
4. The app must be created using Android studio.
5. Divyang Arora must be the lead designer of the UI.

## Use Case #1

Use Case: Enter Daily Highlight

Actors: App users

Goals: To store into the Petrichor app one's highlights of the day

Preconditions: The users only has to have downloaded the application

Summary: When a user opens the app through the application launch icon or through a notification they received, they should type in their highlight(s) of the day using the on-screen keyboard.

Related Use Case: Enter Weekly Highlight, Enter Annual Highlight

Steps:

### *Actor Actions*

1. Click on "Today" on the home screen
2. Click on "Enter Daily Highlight" button
- 4a. Select Text Field
- 4b. Type in a highlight
5. Click 'Submit'

### *System Responses*

3. "Today's Highlights" Page appears
6. System Displays the Highlight on the Page
7. System Displays "Daily Highlights Submitted"

## Use Case #2

Use Case: View one's Highlights of the year

Actors: App users

Goals: To view one's three highlights of the year

Preconditions: The users must have used the Petrichor app for at least one year

Summary: When a user wants to view his/her highlights of the year, s/he must click on a button to open a page displaying those highlights.

Related Use Case: View Daily Highlights, View Weekly Highlights, View Monthly Highlights

Steps:

### *Actor Actions*

1. Click on "Explore"
2. Click on 'Year In Review' button

### *System Responses*

3. System Displays this Year's three chosen top highlights on the page

### Use Case #3

Use Case: Edit a Daily Highlight

Actors: App users

Goals: To edit a highlight after having already submitted it earlier that day.

Preconditions: The user must have already submitted a highlight earlier in the day.

Summary: If a user wants to edit a highlight they have entered, they can use the “edit” button to change their highlight.

Related Use Case: Edit Weekly Highlight, Edit Monthly Highlight

Steps:

#### *Actor Actions*

1. Click on “Today” on the home screen
2. Click on “Enter Daily Highlight” button
4. Long press on highlight to be changed

- 6a. Type in a new highlight
- 6b. Click ‘Submit’

#### *System Responses*

3. “Today’s Highlights” Page appears
5. Cursor Appears over the entered highlight
7. System Displays new highlight on page
8. System Displays “Daily Highlights Submitted”