



# Maintenance Document

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*Save The Hoodie*

*Support conservation of Hooded Plovers in Victoria*

Faunalytics | Handover Package | 29-Oct-2020

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## 1 Introduction

This document aims to help developer understand the structure and the requirements that needed to modify or further add value in 'Save The Hoodie'. Furthermore, this document will provide other resources that needed for testing, setting up, and reference links to ensure data is up to date.

## 2 System Architecture

This system diagram helps developer to understand the flow of API/ data usage. Along with the resources, artefacts in Support document and later sessions, developers can identify the issues better.

## 3 Equipment Environment

- Android Phone

Run the apk on phone, make sure the operation system version is 10 or above.

## 4 Hardware and Software Requirements

- Laptop

Using any laptop that can run android studio with Java 1.8 and JDK version 11 or above.

- Android device

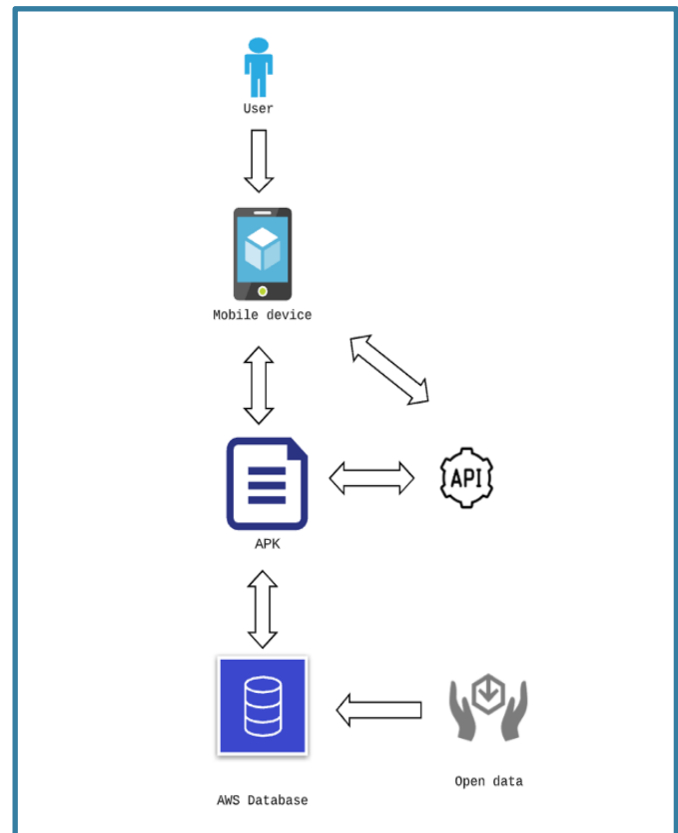
Run the apk on phone, make sure the operation system version is 10 or above.

- Android Studio

Download the newest Android studio, or use Android Studio above v4.0.1 to open this project.

## 5 Testing information

Test on app should be performed by developer and QA, and potential users. To test on functionality, performance, compatibility and UI friendly



- Emulator

With emulator, we suggest you use Pixel 2 XL API 29 to get the best layout overview. But you are welcome to use other emulators as long as API version is 29 or above.

Type	What	Who	How	Frequency
<b>Action in App</b>	Test new features that been added on app	Developer	Run it both on emulator and real Android phone	Every time a new function has been added
<b>Compatibility</b>	Test how layout and function work in different system	QA	Run it in different devices	Every time layout changes
<b>UI friendly</b>	Test if the design is suitable for target audience	Potential users	Test it on their own device	Every time a new design comes out

## 6 Development Artefacts

### 6.1. APK link

The newest apk 'SaveTheHoodie.apk' is generated under this folder.

<https://github.com/lisihan123/MONASH-IE-MP13/tree/master/release>

### 6.2. Code

- Git hub repository

This project is been collaborated using GitHub that is contributed by every member in Faunalytics.

<https://github.com/lisihan123/MONASH-IE-MP13>

- Zip file

We also backup it in a zip file as attachment 'Maintainance\_attachment.zip' of this document. The structure is same as git hub. With open 'SaveTheBird2' folder through Android Studio, you can modify the code directly.

### 6.3. Sources

Some statistic figures such as Hooded Plovers' total count is been found on Birdlife and eBird.

<https://ebird.org/species/hooplo2>

<https://birddata.birdlife.org.au/>

## 6.4. File content

In Android application, '.java' files in charge of every action, effect, listener and other dynamic behavior while '.xml' files contain the layout of every page.

Here is the table of how each layout in app corresponds to files.

Features in app	File name	Structure
<b>Project main frame</b>	MainActivity.java activity_main.xml	-
<b>Loading page</b>	LoadingActivity.java activity_loading_activity.xml	App loading page
<b>Home page</b>	fragment_home.xml	Home fragment
<b>Hoodies' habitat page</b>	MapsFragment.java assets/index.html	Map fragment
<b>More info page</b>	MoreInfoFragment.java fragment_notifications.xml	More info fragment
<b>Find out about threats to Hoodies</b>	ListFragment.java fact_list.xml	Home page - threats
<b>Create poster to tell people hoodies' location</b>	WhiteBoardFragment.java whiteboard.xml	Home page - whiteboard
<b>Understand the life cycle of Hoodies</b>	OverviewFragment.java fragment_overview.xml	Home page – life cycle
<b>Join communities dedicated to protecting hoodies</b>	CommunityFragment.java community_list.xml	Home page – community
<b>Threats To Hoodies - Hooded Plovers are Endangered</b>	FactNumberFragment.java fact_status.xml	Home page – threats – fact number

<b>Threats to Hoodies – Threats from Dogs and Horses</b>	FactDogFragment.java fact_dog.xml	Home page – threats – fact kid
<b>Threats to Hoodies – Threats from Kids and Pedestrians</b>	FactKidFragment.java fact_kids.xml	Home page – threats – fact kids
<b>Anna’s Honours Field work ... - Content</b>	CommunityFragment.java Recycler_item_0.xml	Home page – community – 1 <sup>st</sup> community content
<b>Friends of the Hooded Plover ... - Content</b>	CommunityFragment.java Recycler_item_1.xml	Home page – community – 2 <sup>nd</sup> community content
<b>Hooded Plover - Content</b>	CommunityFragment.java Recycler_item_2.xml	Home page – community – 3 <sup>rd</sup> community content
<b>Hooded Plover Volunteers - Content</b>	CommunityFragment.java Recycler_item_3.xml	Home page – community – 4 <sup>th</sup> community content
<b>Friends of the Hooded Plover - Content</b>	CommunityFragment.java Recycler_item_4.xml	Home page – community – 5 <sup>th</sup> community content
<b>Cards explains every stage of life cycle</b>	LifeCycleFragment.java life_cycle.xml	Home page – life cycle – Cycle stage cards
<b>Connect with Organizations</b>	ExploreFragment.java Support_explore.xml	More info fragment – Connect with organizations

## 6.5. Lean Canvas

Lean canvas as below, you can also find the pdf version in the attachment.

<b>Lean Canvas - <i>Fauna on the Brink of Extinction</i></b>		Project Name	Designed by:	Date:	Version:
		Save The Bird	Team13 - Faunalytics	2020.08.20	V1.7
Problem / Challenge	Solution	Unique Value Proposition		Who	
<ul style="list-style-type: none"> <li>Hooded Plover habitat is suffering loss and degradation via coastal development. Up to 81% of nests and 30% of chicks were crushed due to human disturbance, and a high number of nests were trampled by pet animals</li> <li>People using beaches for recreation pose a high disturbance threat to incubating birds, and some threats have been identified as having higher disturbance impacts, for example dogs off leash and recreational activities</li> </ul>	<ul style="list-style-type: none"> <li>The solution aims to make people aware of their actions which are causing adverse effects on the Hooded Plover's habitat; and try to make them inhibit more protective actions. For example, encourage people to have leash on their pets</li> <li>Consider user inputs and give them appropriate suggestions/ recommendations along with push-notifications on the go. For example, remind users to appropriately reduce beach activities during Hooded Plover's breeding period</li> </ul>	<ul style="list-style-type: none"> <li>We are taking our solution a step ahead by providing customized solutions to the people, while they relate their actions to the bigger picture</li> <li>Inspection of a general idea to provide more specific actions for individuals</li> <li>Get data and analyze user's awareness level</li> <li>Include government contact details for added support to the users</li> </ul>		<ul style="list-style-type: none"> <li>People who enjoy the beach or who often engage in outdoor activities on the beach and they are willing to contribute to nature</li> <li>Residents who stay near the Hooded Plover's habitat</li> <li>Age Group: Young adulthood (25 to 30 years)</li> </ul>	
Existing Alternatives	Key Metrics		Potential Sponsors	Early Adopters	
<ul style="list-style-type: none"> <li>EBird – A platform for people to share their stories with birds</li> <li>Physical signs on the beach - Regular Workshop by NGOs</li> <li>Information provided to the people via published papers and articles</li> <li>Existing informative and analytical websites with maps open for public</li> </ul>	<ul style="list-style-type: none"> <li>Count of the Hooded Plover birds in Victoria (Rescued and Killed numbers)</li> </ul>		<ul style="list-style-type: none"> <li>Birdlife Australia</li> <li>Wildlife Victoria</li> <li>Victoria State Government (Department of Environment, Land, Water and Planning)</li> </ul>	<ul style="list-style-type: none"> <li>Basic English Skill (Reading and Writing)</li> <li>Ability to access Internet (Web or App)</li> </ul>	

## 6.6. User stories

You can also find it in [Leankit](#) if you have access.

- As a user and a bird lover, Rebecca wants to know all the information related to the Hooded Plover so that she can she gains more knowledge about the bird
  - As a user and a bird lover, Rebecca wants to know where the beaches with Hooded Plovers are so that she can discover/explore/visit them
  - As a user and a bird lover, Rebecca wants to know the features of Hooded Plover so that she can know more about them
  - As a user and a bird lover, Rebecca wants to know the current status of Hooded Plover so that she can know its endangered level
- As a user who enjoys the beach, James wants to know which human activities will affect the beaches so that he can avoid them

- a. As a user who enjoys the beach, James wants to know which beach activities will affect Hooded Plover's life so that he knows which of his activities will unknowingly harm them
  - b. As a user who enjoys the beach, James wants to know how he can stop other people from sabotaging the Hooded Plover's habitat so that everyone can enjoy the beach responsibly
  - c. As a user who enjoys the beach, James wants to know which actions might be unethical on the beach, that he does affect the birds so that he can improve himself in the future
3. As a user who lives in a seaside town, Kate wants to maintain the environment near the beach, so that she could have a cozy community to live with
  - a. As a user who lives in a seaside town, Kate wants to know which other animals live in the habitat of the hooded plover so that she can understand its ecological environment including natural enemies' status
  - b. As a user who lives in a seaside town, Kate wants to remind people visiting the beach to behave well and to follow the rules so that she can have a clean and uncontaminated community
  - c. As a user who lives in a seaside town, Kate wants to know whether her daily activities will affect the Hooded Plover birds near her or not
4. As a resident of a seaside town, Kate wants to know if the birds around her, are Hooded Plovers so that she can know if she has a chance to meet them again
  - a. As a user who lives in a seaside town, Kate wants to know whether her daily activities will affect the Hooded Plover birds near her or not
  - b. As a user who lives in a seaside town, Kate wants to know if she can contribute in any way so that the Hooded Plover birds near her are preserved
  - c. As a user who lives in a seaside town, Kate would like to notify the relevant organizations immediately to rescue the injured Hooded Plovers she found
5. As a user and a bird lover, Rebecca hopes to donate to related NGOs to help Hooded Plovers, so that these organizations have enough funds to carry out actual rescue activities
  - a. As a user and a bird lover, Rebecca wants to know about the stages of the life of Hooded Plover so that she is aware of all stages and recognizes the bird in whichever form when she sights it
  - b. As a user and a bird lover, Rebecca wants to report any sightings of Hooded Plover to the appropriate organization so that they are aware of the birds' latest activities at existing or new potential habitats
  - c. As a user and a bird lover, Rebecca wants to know that she has neared a Hooded Plover's habitat so that she becomes more alert and aware of her actions that might be harmful to the bird
6. As a user who lives in a seaside town, Kate wants to connect with people who care about Hooded Plovers and be a part of the responsible community
  - a. As a user who lives in a seaside town, Kate wants to know which groups/communities currently exist related to Hooded Plovers





- b. As a user who lives in a seaside town, Kate wants to join groups/communities related to Hooded Plovers to connect with new like-minded people
  - c. As a user who lives in a seaside town, Kate wants to design creative signboards to be able to share with the joined groups/communities on social media
- 7. As a user and beach lover, James wants to be creative about the Hooded Plovers issue and spread awareness amongst his peers
  - a. As a user and beach lover, James wants to create posters about Hooded Plovers so that his beach lover friends are aware, but he does not know where to begin
  - b. As a user and beach lover, James wants to report the location of Hooded Plovers which he observes from the app on social media
  - c. As a user and beach lover, James wants to save the designed signboard as an image into his cellphone's gallery