**A close up of a logo

Description automatically generated**A picture containing logo

Description automatically generated

**Maintenance Document**

Save The Hoodie

Support conservation of Hooded plovers in Victoria

Faunalytics | Handover Package | 29-Oct-2020

A picture containing logo

Description automatically generated

[1 Introduction 4](#_Toc55128292)

[2 System Architecture 4](#_Toc55128293)

[3 Equipment Environment 4](#_Toc55128294)

[4 Hardware and Software Requirements 4](#_Toc55128295)

[5 Testing information 5](#_Toc55128296)

[6 Development Artefacts 5](#_Toc55128297)

[6.1. APK link 5](#_Toc55128298)

[6.2. Code 5](#_Toc55128299)

[6.3. Sources 5](#_Toc55128300)

[6.4. File content 5](#_Toc55128301)

A bird standing next to a body of water

Description automatically generated

A bird sitting on a table

Description automatically generated

# 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.

# Diagram Description automatically generatedSystem 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.

# Equipment Environment

* Android Phone

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

# 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](https://developer.android.com/studio?gclid=Cj0KCQjwxNT8BRD9ARIsAJ8S5xaVbhoIARs2gTjh-TvhJ4nesnAjvLu52NDn0UXB9f_dRUfPfXw8ffoaAtXIEALw_wcB&gclsrc=aw.ds), or use Android Studio above v4.0.1 to open this project.

* 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.

# Testing information

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type | What | Who | How | Frequency |
| Action in App | 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 |
| Compatibility | Test how layout and function work in different system | QA | Run it in different devices | Every time layout changes |
| UI friendly | Test if the design is suitable for target audience | Potential users | Test it on their own device | Every time a new design comes out |

# Development Artefacts

## APK link

The newest apk ‘SaveTheHoodie.apk’ is generated under this folder.

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

## 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.

## Sources

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

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

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

## File content

In Android application, ‘.java’ files in charge of every actions, effect, listeners and other dynamic behaviors 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 |
| - | MainActivity.java  activity\_main.xml |  |
| Loading page | LoadingActivity.java  activity\_loading\_activity.xml | App loading page |
| Home page | fragment\_home.xml | Home fragment |
| Hoodies’ habitat page | MapsFragment.java  assets/index.html | Map fragment |
| More info page | MoreInfoFragment.java  fragment\_notifications.xml | More info fragment |
| Find out about threats to Hoodies | ListFragment.java  fact\_list.xml | Home page - threats |
| Create poster to tell people hoodies’ location | WhiteBoardFragment.java  whiteboard.xml | Home page - whiteboard |
| Understand the life cycle of Hoodies | OverviewFragment.java  fragment\_overview.xml | Home page – life cycle |
| Join communities dedicated to protecting hoodies | CommunityFragment.java  community\_list.xml | Home page – community |
| Threats To Hoodies - Hooded Plovers are Endangered | FactNumberFragment.java  fact\_status.xml | Home page – threats – fact number |
| Threats To Hoodies – Threats from Dogs and Horses | FactDogFragment.java  fact\_dog.xml | Home page – threats – fact kid |
| Threats To Hoodies – Threats from Kids and Pedestrians | FactKidFragment.java  fact\_kids.xml | Home page – threats – fact kids |
| Anna’s Honours Field work … - Content | CommunityFragment.java  Recycler\_item\_0.xml | Home page – community – 1st community content |
| Friends of the Hooded Plover … - Content | CommunityFragment.java  Recycler\_item\_1.xml | Home page – community – 2nd community content |
| Hooded Plover - Content | CommunityFragment.java  Recycler\_item\_2.xml | Home page – community – 3rd community content |
| Hooded Plover Volunteers - Content | CommunityFragment.java  Recycler\_item\_3.xml | Home page – community – 4th community content |
| Friends of the Hooded Plover - Content | CommunityFragment.java  Recycler\_item\_4.xml | Home page – community – 5th community content |
| Cards explains every stage of life cycle | LifeCycleFragment.java  life\_cycle.xml | Home page – life cycle – Cycle stage cards |
| Connect with Organizations | ExploreFragment.java  Support\_explore.xml | More info fragment – Connect with organizations |