**A close up of a logo

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**Support Document**

Save The Hoodie

Support conservation of Hooded Plovers in Victoria

Faunalytics | Handover Package | 29-Oct-2020

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A bird standing next to a body of water

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A bird sitting on a table

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# Introduction

Support document is designed to provide instruction to set up and run the system of “Save The Hoodie” for employees and administrators who will operate the application.

# Proposed System

In Victoria, the number of Hooded Plover is decreasing progressively. Currently, there are only 550 Hooded Plover in Victoria. “Save The Hoodie” aims to educate users about the bird and help them to protect the species by reminding them to be careful when they are close to Hooded Plover that are on beaches people visit often. The application is built based on Android system with using Java.

Product Video can be found in the link below

<https://www.youtube.com/watch?v=NCFmEXjLnAM>

# System setup

## Backend Server

The backend of this system is based on AWS EC2. It is established by Flask to build a webservice with using Linux system and Python; and it provide two “GET” requests, one is that using the user location to get the nearest distance from one of Habitats another will be used to return all data which will be used in map distribution.

The Flask web service can be set up by following the instructions in the following link:

<https://www.tutorialspoint.com/flask/index.htm>

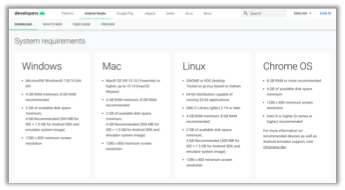
## IDE Tool: Android Studio

The IDE tool we used is Android Studio. Before installing Android Studio:

1. Read the user guide to be more familiar with the download solution.

For more details please watch the following link: <https://developer.android.com/studio/intro>

1. Check the system requirements which help you check your desktop/laptop supports Android Studio 4.0.2.



For more details please watch the following link: <https://developer.android.com/studio>

# Servicer Account management

The AWS console can manage different accounts. The administrator has all permission of service. IAM user can access and use these services.

Graphical user interface

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For more information, please follow the instructions in the link:

# Operational Guide

1. Keep AWS EC2 Alive.
2. Run the Flask service by SSH AWS EC2 server.
3. Make sure the integrity of Project file.
4. Update data in Flask service annually.

# Data Management

1. Open dataset:
2. Updating data

The main data in the database we used is from “ebird”. The data in “ebird” will be updated monthly, and we decide to update data annually.

# Backup and Restore

It is important to restore backup data when the project suffer some unexpected deletion, database corruption or any other accident. We use GitHub to backup and restore the project.

For more details please watch the following link :

<https://guides.github.com/introduction/git-handbook/>

# Troubleshooting

Some unexpected factor will cause the error of Android Studio, low performance of development.

Please see the following link to get the troubleshooting guide:

<https://developer.android.com/studio/troubleshoot>

# Shutdown and Restart

When rebooting, follow the above procedure to maintain data integrity and complete the system tests mentioned in this manual. If any errors occur during the process, please refer to the troubleshooting section of this document.

If you want to shut down the system and restart the service, or migrate to another server please follow the link below:

https://aws.amazon.com/ec2/?ec2-whats-new.sort-by=item.additionalFields.postDateTime&ec2-whats-new.sort-order=desc

# Shutdown and Restart

|  |  |  |
| --- | --- | --- |
| **Position** | **Skill** | **Quantity** |
| Software Developer | Experience of Java and Android Studio  Knowledge of TPC/IP, HTTP | 1 |
| UI Designer | Experience of mobile application UI design  Familiar with MockingBot and photoshop | 1 |
| Data Manager | Experience of JavaScript, html  Ability of data wrangling | 1 |
| Test Engineer | Ability to do complex manual test  Knowledge of writing code for automagical test | 1 |
| Project Manager | Deep Understanding of agile development  Ability to track project process and maintain smooth communication between multiple party | 1 |