**Group 3**

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Maintenance Manual

CS22120 Group Project

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Introduction

## Purpose of this document

## This document serves the purpose of making the maintenance of the RPSRecord and RPS View easier by helping the maintainer easily figure out what the program does , how it does it and how they can carry out quick, efficient maintenance on the program.

## Scope

This document includes an overview of the system, the basic structure and algorithms , limitations and suggestions for when making changes.

## Objectives

The main objectives of this document are to allow the program code we have created to be more easily maintained by people carrying out further maintenance on it , helping them to mitigate undetected bugs, add additional features to improve functionality and/or change the program so that changes in external requirements are met.

# Application Description

## Rps recorder

This application can record a plant , add information of that species ,such as DAFOR scale ,comments m location photots, and upload recording to the server

# program structure

## RPSRecord

The program is structured in the following classes:

1.MainView - The layout that contains the NewRecordFragment and

2.MainActivity - The activity that holds the main page.

3.MyTabListener - Handles switching between the tabs in MainView.

4.NewRecordFragment - The fragment tab that lets the user enter the details of a new record.

5.RecordViewFragment - The fragment tab that lists all records recorded on the device.

6.UserDataView - The activity that lets the user input their personal information.

7.GPSToGrid - Converts GPS coordinates to an OS grid reference using an external library.

9.InvalidFieldException - An exception used when a field is entered with invalid information.

11.DatabaseHelper - Manages the local database for records and reserves.

12.Record - An object representing a single plant record.

13.Reserve - An object representing a single reserve.

14.ReserveDataManager - Pulls reserve names from the server and stores them locally.

16.SubmitRecord - Handles submitting records to the server database.

17.UserInfo - Holds the user's information in public static variables so that they can be accessed easily from other parts of the program.

The program also contains classes that no longer are in use.

## RPS View

### RPSView/public\_html

Index.php

Records.php

Index.php

Add\_record.php

Add\_reserve.php

Connect.php

Edit\_list.php

Header.php

Index.php

Json.reservers.php

Update\_record.php

Upload\_picture.php

### RPSView/public\_html/json

Jason\_reserves.php

Json.species.php

Reservers.json

Species.json

# algorithms

## RPSRecord

# main data area

# file system interaction

## RPS recorder

## RPS VIEwer

# interfaces

## RPSRecord

-screen rotating proplem

# improvement suggestions

## RPS Record

-screen rotating problem

-fix images upload

-editing records

-more pop up messages ”data uploaded”

-cancel record

-back to homepage button

## RPSView

# observations for maintenance

## RPS Record

## RPSView

# Physical limitations

## RPS Record

The build target of the Android project is version 4.2.2, meaning other API versions may encounter problems running the app.

## RPSView

# Rebuilding and testing

To rebuild the Android app, import the entire project in Eclipse. To test it, install the generated .apk file on an Android device or use an emulator.

# References

# Document history

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| --- | --- | --- | --- | --- |
| *Version CCF No.* | | *Date* | *Changes made to document* | *Changed by* |
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