Group Name: Bug Dump
Group Members: Palak Parwal, Michelle Wang, Natalie Nguyen, Stephanie Tong, Ryota Saito, and Kevin Hsieh

INSTALL: Stationerry

Installing the Project on a Windows Machine

To run this project on a Windows machine (see below for Ubuntu), you must do the following:

1. Installing Python
    - 1.1. Install python 2.7.6 from https://www.python.org/downloads/
    - 1.2. Set python environment variables
        - 1.2.1. Press Windows Key
        - 1.2.2. Search for "environ"
        - 1.2.3. Click on ''Edit the System Environment Variables'
        - 1.2.4. Click on 'Environment Variables'
        - 1.2.5. Under system variables, look for the variable named 'Path' and select it
        - 1.2.6. Click on Edit
        - 1.2.7. In the variable value field, make sure there is a semi-colon at the end of this field. Otherwise add one.
        - 1.2.8. Find the path of folder with your python 2.7.6 exe and paste it into the 'Path' variable
2. Installing Django
    - 2.1. Open the command line.
    - 2.2. Type in 'python get-pip.py'
    - 2.3. Change directory to your python folder using the command line, and then go into the scripts folder.
    - 2.4. 'Pip install Django==1.9.6''
3. Installing Github GUI
    - 3.1. Install the desktop application from https://desktop.github.com/
4. Clone GitHub Repository: https://github.com/waoimapanda/Stationerry/ using the the GUI
5. In the repository for Stationerry
    - 5.1. To start the server for the website use the following command:
        - 5.1.1. Use the command prompt to run the command: python manage.py runserver
    - 5.2. To create a superuser for the web client use the following command:
        - 5.2.1. Use the command prompt to run the command: python manage.py createsuperuser
        - 5.2.2. You will be prompted for a username and password that you must give it
6. Go into browser and type 127.0.0.1:8000 for website

6.1. At this point you should be able to login in using the superuser account or create a regular user account to use the website
7. If you are able to create an account then the website is now functional
8. Setup the example external application to ensure the project is working (instructions below)

Installing the Project on an Ubuntu Machine

To run this project on an Ubuntu machine, you must do the following:

1. Installing Python2
   1.1. Use the terminal to run the command: apt-get install python2
   1.2. Download pip and easy_install for later using the command: apt-get install python-setuptools
2. Installing SQLite3
   2.1. Use the terminal to run the command: apt-get install sqlite
3. Installing a Virtual Environment
   3.1. Use the terminal to run the command: easy_install virtualenv
   3.2. To create a virtual environment use the terminal to run the command: virtualenv --no-site-packages django-user
   3.3. To start the virtual environment use the terminal to run the command: source django-user/bin/activate
      3.3.1. This will create a folder called django-user
   3.4. Go into the django-user folder using the terminal to run the command: cd django-user
4. Installing Django
   4.1. Use the terminal to run the command: easy_install django
5. Installing Git for Github
   5.1. Use the terminal to run the command: apt-get install git
6. Obtaining the project files from Github
   6.1. Use the terminal to run the command: git clone https://github.com/waoimapanda/Stationerry/
7. In the repository for Stationerry:
   7.1. To start the server for the website use the following command:
      7.1.1. Use the terminal to run the command: python manage.py runserver
   7.2. To create a superuser for the web client use the following command:
      7.2.1. Use the terminal to run the command: python manage.py createsuperuser
      7.2.2. You will be prompted for a username and password that you must give it
8. Go into browser and type 127.0.0.1:8000 for website
   8.1. At this point you should be able to login in using the superuser account or create a regular user account to use the website

9. If you are able to create an account then the website is now functional
10. Make sure you setup the example external application for testing (instructions below)

Setting up the Example External Application

Next you need an application to test that the project is working. To do this you must have an Android device and follow the steps below:

1. Installing the APK on an Android Device and run the demo application
    1.1. Move APK from Stationerry repository to phone
    1.2. Go to Android Settings -> Security -> Allow Unknown Sources
    1.3. Browse to where the APK is downloaded on the phone and click on it
    1.4. Browse and open LogErrors application on phone
2. If the application downloaded correctly click the button to send an error report to the database
3. If you are able to see the error in the web client then the project has been successfully installed

Note: To connect your own external application, see the instructions below

Instructions for Connecting an Application to the Web Client

For those of you that would like to make your own application that can interact with Stationerry, the steps to do so are listed below:

1. Create a new Android project
2. Add compile 'ch.acra:acra:4.8.5' to gradle dependencies
3. Creating an Application class
    3.1. Create a new class in your package root.
    3.2. Give it a name like: MyApplication extending from android.app.Application (or another subclass of that)
    3.3. Update the application element in your AndroidManifest to reference the new class.
    3.4. Add permission INTERNET to manifest

4. Format your App.Java to look like this

```
@ReportsCrashes(
        //mailTo = "ryocsaito@gmail.com",
        formUri = "http://stationerry.pythonanywhere.com/backend/sendreport/",
        reportType = HttpSender.Type.JSON,
        httpMethod = org.acra.sender.HttpSender.Method.POST,
        mode = ReportingInteractionMode.TOAST,
        resToastText = "CRASHED!")


public class App extends Application{
    @Override
    public void onCreate() {
        super.onCreate();
        ACRA.init(this);

        Calendar cal = Calendar.getInstance();
        SimpleDateFormat sdf = new SimpleDateFormat("HH:mm:ss");
        System.out.println( sdf.format(cal.getTime()) );

        int stringId = getApplicationContext().getApplicationInfo().labelRes;
        String appname = getString(stringId);
        String time = sdf.format(cal.getTime());
        ACRA.getErrorReporter().putCustomData("UserID", "Username" );
        ACRA.getErrorReporter().putCustomData("TimeOccured", time);
        ACRA.getErrorReporter().putCustomData("AppName", appname);
        ACRA.getErrorReporter().putCustomData("ActivityName", this.getClass().getSimpleName());
    }
}
```

5. Replace the UserID field with your username
6. Now create an application and if your app throws an error, then you should see a report when you sign in.