



Developer Documentation for JCCC Sustainability Mobile, Web App and DashBoard

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Table of Contents:

1. JCCC Sustainability Mobile App introduction
 - 1.1. Installation
 - 1.2. Architecture
2. JCCC Compost and Recycling Dashboard and App
 - 2.1 Dashboard Architecture
 - 2.2 Web App Architecture

Chapter 1: JCCC Sustainability Mobile App

JCCC Sustainability Mobile App was designed for an easy and convenient way of adding compost records from any location. Whether it is out in the field or the comfort of one's home.

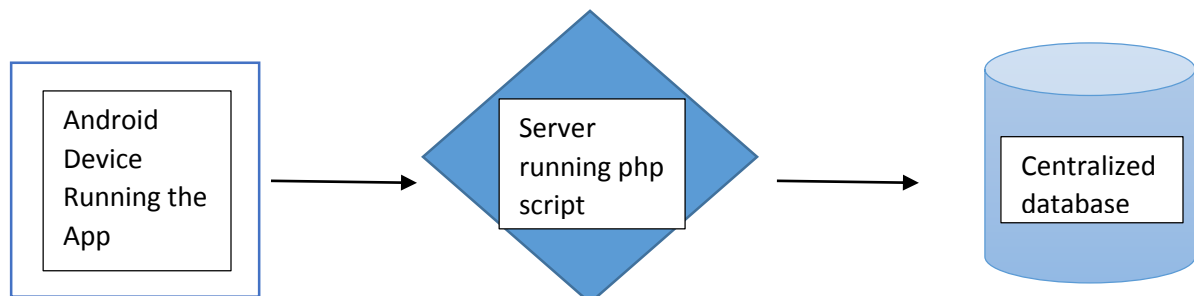
1.1: Installation

Current installation of prototype version requires the user to manually install the app. The following steps will provide information for downloading from unknown sources, and installing the app.

1. **Enabling phone to download from unknown sources:** Navigate to Menu -> Settings -> Applications and check the box marked "Unknown Sources". **Note: On some phones this could be under Settings -> Security.
2. **Download Apk:** Open internet browser on the phone. Type the following URL into browser: students.jccc.edu/nwilso39/compost and download the file jcccSustainability.apk
3. **Install Apk:** After downloading Apk, go to Settings -> Storage -> Downloads and click on JCCC Sustainability and install Apk
4. **Disabling downloading from unknown sources:** Navigate to Menu -> Settings -> Applications and uncheck the box marked "Unknown Sources". **Note: On some phones this could be under Settings -> Security.

1.1: Architecture

The mobile app will allow JCCC Sustainability to enter data and view dashboards from their mobile phones. The mobile app will allow users to enter values in the database given by the customer. It will connect to a php script which will then take values entered in mobile device and insert or update records into the database. The mobile app will only add records to the compost side of JCCC Sustainability. The app will work on android devices with an API of 17 or greater.

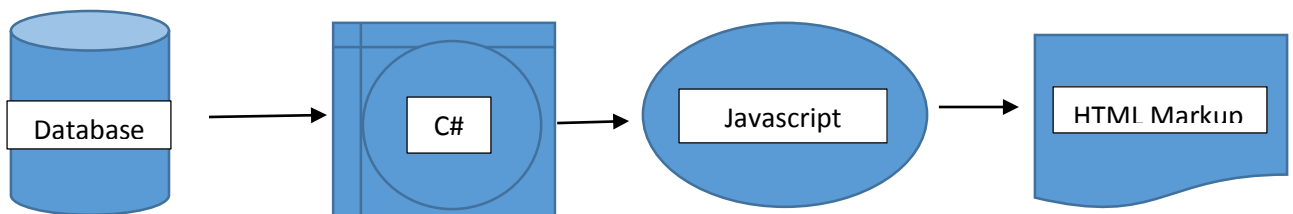


Chapter 2: JCCC Compost and Recycling Dashboard and Web App

JCCC Compost and Recycling Dashboard was designed to show, anybody who is interested, the status of all the compost and recycling done by the Center for Sustainability at Johnson County Community College.

2.1: Dashboard Architecture

The architecture for the Compost and Recycling Dashboard is base in a relational database model manipulated through C#.net language. This language retrieves the data from the database and sends it to a Javascript script, which places the data in the HTML markup in order to display the graphs.



Data Tools	Chart Library	Styling Framework
MS SQL Server 2012	Chartist.js	Bootstrap

2.2: Web App Architecture

The web app will allow the JCCC Sustainability enter data in a mobile or office environment. The app should allow the user to enter in all variables that are present in the database given by the customer. The app should allow them to update or add new entries into the database upon submission of the data. All data should conform to the type of data needed to be entered into the database. All calculation can be done on either the website or the database. The website should be responsive and dynamic. The color scheme should follow that of JCCC's formal colors when presented.

