

# **An Android application for Indian Farmer's**

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September 2013

**Dissertation submitted in partial fulfilment for the degree of  
Master of Science in Advanced Computing**

**Computing Science and Mathematics  
University of Stirling**

## Abstract

**Problem:** Indian farmers need to access agriculture news and commodity prices on a daily basis, and market locations occasionally. Currently they use multiple sources such as television, newspaper, Internet, SMS alerts on mobile phones, etc. Farmers also have to maintain records of the goods sold to the buyer. Instead of using different sources for the above mentioned information they could use a single source to get all this information.

**Objectives:** An application from which the farmers can get information about agriculture news, commodity prices, markets, and to maintain records of the goods sold to the buyer. Now a day's, a large numbers of Indian farmers are using smart phones, so there could be a smart phone application which provides information about all their needs specified above.

**Methodology:** The data for the application can be obtained from existing resources like web sites, Google maps etc. The news, commodity prices and market details can be pulled once in a day or in a timely manner from web sites and the map from Google. The pulled news and the commodity prices are stored in a database. A web service provides the data stored in the database as per the request. The user interface is a mobile application that requests for the data from the web service and displays this to the user.

**Achievements:** The first challenge was creating the backend application to find the sources from where the news and commodity prices could be fetched, parsed and stored in the database. To make the data available to remote applications, a web service was implemented.

The second challenge was the front end application i.e. an Android application that fetches the required data from the web service and displays it to the user. A light weight database on the front end application to store the user notes was created. The waterfall method did not work and so different changes were made to the initial design for both back end and front end applications.

All the requirements of the Indian farmers were met by the end of the project i.e. to access different features using a single application.