

**ADVISOR:**

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**Version 1.0**

**TEAM:**

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**FARMER *PLUS***

**Tools and Technologies**

**C#.NET**

**Functionality :**

C#.Net will be used for Data entry application development. This application will be an interface to the Content Management Server that will have all the contents. This application will be used to enter the data in the CMS Database. This application will also be used for setting various parameters and attributes of the system.

**Justification of Selection :**

This is an easily available compiler, and most of the team members have hands on practice on Microsoft Technologies. Its easy to use and can be very usefull in Rapid Application Development.

**MySql**

**Functionality :**

We will be using MySql as the backend database. All the textual contents will be sotred in the mysql database.

**Justification of Selection :**

Mysql is an open source and free database, which can hold significant amount of data. Its easily available on all platforms and most of the resources have quite good amount of hands on practice on Mysql.

**Asterisk Telephony**

**Functionality :**

Asterisk is software that turns an ordinary computer into a voice communications server. Asterisk powers IP PBX systems, VoIP gateways, conference servers and [more](http://www.asterisk.org/applications). It is used by small businesses, large businesses, call centers, carriers and governments worldwide. This tool will be used for the IVR in Farmer Plus Application. We will use Asterisk for Call receiving, Call routing and generating the call response.

**Justification of Selection :**

Asterisk is an open source and free tool, which is easily available on the internet. It is easy to use and has a lot of documentation and online help. It can be easily integrated with any environment.

**TrixBox**

**Functionality :**

Trix Box is a wrapper utility which runs on top of Asterisk, It helps the utilization of Asterisk API in a user friendly way. By using this tool we can easily perform IVR tasks.

**Justification of Selection :**

Trix box is open source and freely available tool. It has a lot of help online on forums. Moreover, it is GUI based and is therefore easy to handle

**SMSLib**

**Functionality :**

SMSLib is a [programmer's library](http://smslib.org/doc/about/) for sending and receiving SMS messages via a GSM modem or mobile phone. SMSLib also supports a few bulk SMS operators. We will use SMS Lib for sending and receiving the SMSs, we will read the SMS and based on the SMS we will process and give the result.

**Justification of Selection :**

SMS lib can be easily integrated with .NET and its open source and readily available over the internet. SMS Lib has a lot of documentation and online help. Some of the resources have know-how of this tool and It can be easily integrated with any hardware.

**XML**

We will require to parse and process various XML’s, like the XML’s of RSS feeds of Weather, and application settings etc.