

# Project scenario – Farmers Buddy

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Name of the Project	Farmers Buddy
Objective/Vision	It is the agriculture portal which provides solutions to small farmers and agriculture students of India. Besides Salt & fertilizer analysis for particular region this portal also helps farmers to know about government loan and insurance schemes. It also helps them make decisions on mandi/market and best prices. NGOs are trying to spread messages to make agriculture more eco-friendly through this site.
User of the System	A. General public B. Farmers and Agriculture students C. Agriculture officers D. Administrator
Functional Requirements	i. Individual profile management for all kind of users. ii. Basic soil analysis for all regions and suggestions on which fertilizers to use where & how much? Which crop, herb or vegetable can be grown where and in which season? iii. Online query handlings for all users. Queries can be general or directed to a particular officer. iv. Officers/NGOs can schedule trainings and publish it online. User-A&B can request training online. v. Facilitate communication between user, experts and general public through - Discussion forum/chat/mail/polls vi. Foreign agriculture experts/businessman can upload the info about their tools and solutions on chargeable basis. vii. Information about major crop markets (mandi) and their current price for crop should be published daily. viii. Awareness drive Govt schemes specially loan and insurance based for farmers. ix. Website should support local language so that farmers can get the best of it.

	<p>x. Information pages should be dynamic so that User-C &amp; D can change it from their interface easily.</p>
Non-Functional Requirements	<p>i. Secure access of confidential data (user's details). SSL can be used.</p> <p>ii. 24 X 7 availability</p> <p>iii. Better component design to get better performance at peak time</p> <p>iv. Flexible service based architecture will be highly desirable for future extension</p>
Optional Features	<p>a. Customizable color scheme or skins</p> <p>b. Java based interface for User C &amp; D.</p>
User Interface Priorities	<p>A. Professional look and feel</p> <p>B. Use of AJAX (MUST with all registration forms)</p> <p>C. Browser testing and support for IE, NN, Mozilla, and Firefox.</p> <p>D. Use of Graphical tool like JASPER to show strategic data to admin</p> <p>E. Reports exportable in .XLS, .PDF or any other desirable format</p>
Reports	<p>A. Different types of reports on daily, monthly, weekly, annual basis, date range and type of interactions.</p> <p>B. Searching information based on Soil analysis, Leaf analysis and Fertilizer analysis.</p> <p>C. Daily Mandi price Reports on selected crops.</p> <p>D. Various reports on government policies, loan/insurance procedure are to be generated.</p>
Other Important issues	<p>A. User-interface easily handled by ordinary people also.</p> <p>B. Website should be highly customizable and flexible enough to easily deploy without much effort.</p>
Team Size (Maximum)	4
Technologies to be Used	UML, Java, J2EE, XML, e-Forms, AJAX, Web 2.0, Web-services, SOA
Tools to be Used	<ul style="list-style-type: none"> <li>• ROSE/RSA / WebSphere Modeler</li> <li>• Eclipse/ RAD / Lotus Forms Designer / Portlet Factory</li> <li>• WebSphere Portal/ WAS/ WAS CE / WPS</li> <li>• DB2 Express – 'C' or DB2 UDB</li> </ul>

- Tivoli CDP/TSM / Tivoli Directory Server
- Linux OS (preferred).