

AGRO-BUDDY Project Template

Name of the project	Agro-Buddy
Objective/Vision	To establish a direct communication channel between farmer and customer. So that we can eradicate the middle men by which farmers can get a fair bit of profit at the end of the day.
Users of the System	Farmers, Handicraft Artists, Agricultural Scientists and anybody who wants to buy vegetables, fruits, handicrafts, fertilizers etc.
Functional Requirements	<ol style="list-style-type: none"> 1. Home page represents the main features of the platform so that users can understand the main services provided by the platform . 2. It must have an effective search algorithm in both sell page and buy page, so that sellers can keep track of the items sold and yet to be sold by them and buyers can quickly look for what they want and easily buy them. 3. Create a sell web page which displays all the products of the seller which are yet to be sold. 4. Sell page must also have an add product option so that the seller can add new products that he wants to sell (Queue DS). 5. Create a Buy web page which consists of all products available to buy and it must also have various filters so that the user can easily filter the products that he is in need of. 6. Multiple payment options must be used. 7. For reliability Advanced Encryption standard algorithms must be used to make the payment gateway secure. 8. Seller information must be present for every product. 9. Every product must have a rating on the scale of 10 which can be obtained from the user after their every booking through mail. 10. Soil testing page will be provided through which farmers can book a date in order to get their soil tested (by LAM scientists) and reports will be sent to their mails. 11. In Order to control and organize the requests for soil testing, queue data structure will be used and daily requests limit will be set. 12. In Order for farmers to raise their voice regarding the GOVT schemes a communication window will be provided. 13. In Order for farmers to transport their goods a web page with transportation services will be provided. 14. In Order for farmers to store their goods a web page with storage services will be provided.

Non-Functional Requirements	<ol style="list-style-type: none"> 1. As we are using secured Django and node.js framework, user data is stored securely. 2. Payment module must be robust. 3. Secure access of user confidential data like addresses, card details etc. 4. A flexible architecture so that services provided can be extended in future.
Optional Features	<ul style="list-style-type: none"> • Providing customer side review images so that buyers can get more info about the previous sales of the seller. • Dark mode availability to lower the battery consumption. • Providing a spam filter to filter the spam mails from users. • Providing a chat bot to the farmer in order to give him some daily tips regarding farming. • Providing the website in various regional languages.
User Interface Priorities	<ul style="list-style-type: none"> • Customization of Interface. • Providing an easy buying process in a way that everybody can easily do it.
Reports	<ul style="list-style-type: none"> • Reports on daily, monthly, weekly, annual basis on no.of Orders received from customers. • Reports on soil testing.
Other Important Issues	Web design should be simple so that users can navigate easily. Apps should be highly customizable and flexible enough to easily deploy and manage data by Admin.
Technologies to be used	React,TailwindCSS,Node.js, Django,express,API, Postgres, Javascript ES6, RAZOR PAY API.
Tools to be used	Vs Code, Django-admin, Bootstrap, Pg-Admin, Chrome developer tools.
Final Deliverable must include	Online help to farmers for getting their fair bit of Profit as well as users for receiving quality products.