**Introduction and context:**

The main intend of the system is to provide information regarding agriculture, animal farming, suitable climatic conditions for the customers in different regions. The goal is to connect farmers regarding agribusiness and discussions on best possible practices like organic farming, information about the government subsidiaries, disaster recovery weather alerts, Information about crops, pesticides, poultry, beef, etc. Using this system, we can provide better understanding about the best practices of agribusiness gathered from all over the world. Connecting the farmers based on locality can resolve major challenges. The system offers a shopping service where customers can buy crops, pesticides, livestock, etc.

**Users and their goals:**

1. Buyer:

The goal is that the Buyer can understand the challenges he/she faces in agribusiness, animal husbandry, etc., and contact other customers related to cultivation, crop growth.

1. Guest User:

The goal for guest users is that they can subscribe for the opt-out alerts about weather conditions, dynamic prices of the meat in the market, view announcements, and information related to the plans and events.

1. Vendor:

The goal for the vendor is to sell high quality products related to agriculture like harvested crop and animal farming, dairy products. Update the Announcement, Activity, news in homepage.

**Functional requirements:**

1. **Home Page Navigation:**
   * 1. The system should allow guest users to view the **announcement** dashboard.
     2. The system should allow guest users to view the activity dashboard where details about recent activities performed in the locality related to farming, crops, animal husbandry are posted.
     3. The system would allow guest users to view real-time weather information such as temperature, humidity.
     4. The system should allow guest users to submit feedback via **feedback form.**
     5. The Homepage will be shown to Guest User, Buyer and Vendor.
     6. The system allows vendor to update details in announcement, activity dashboards.
2. **Login:** 
   1. The system shall allow Buyers to create an account with **username**, **password, and security question.**
   2. The system would allow registered Buyer to login with username and password.
   3. The system shall display greeting message with name for Buyer after successful login.
   4. The system will **deny** the buyer’s login with incorrect **credentials** and displays error message.
   5. The system allows vendor to login with predetermined username and password.
3. **Vendor View:**
   1. **Prepare Cart:**
      1. The system allows vendor to update the **products**.
      2. The system shall allow vendor to update the images, description, price details with different locations, quantity, and quality of products.
      3. The system allows vendor to select the quality of the meat, livestock and update the market rates with respect to locality.
      4. The system will display message “Products are updated” to the vendor once vendor submits the product details.
   2. **Update dashboards:**
      1. The System allows vendor to update the news, announcements, activities in the homepage.
      2. The system shall allow vendor to update the organic farming details.
   3. **Delete Data:**
      1. The system allows vendor to delete the buyer account.
      2. The system allows vendor to delete the product details.
4. **Buyer View:**
   1. **Buyer Profile:**
      1. The system shall allow buyer to create a profilewith personal details, current farming in practice, daily activities, challenges faced during the farming, land information.
      2. The system shall allow buyer to update Personal details likename, age, sex, profession, address.
      3. The system shall allow buyer to change the password of the account and any other **personal details.**
      4. The system will allow buyer to edit/update profile.
   2. **Inquiry:**
      1. The system will allow the buyer to fill the Inquiry form.
      2. The system will allow buyers to fill out the details like topic of the query, locality with city, pin, query details in a form displayed.
      3. The system will display a webpage to vendor with the inquiry details raised.
      4. The system displays profile detail, activities and challenges faced by the other buyers based on the search criteria includes locality, topic, farming information.
      5. The system will allow the buyers to view email or contact number of other buyers based on the search criteria.
   3. **Checkout:**
      1. The system shall allow buyer to buy products at given rates.
      2. The system will display a webpage of all the products filtered by **type** of the products.
      3. The system will allow buyer to view more details of a product.
      4. The system will display different qualities available, cost of each quality, product description, photos, seller details of each selected product.
      5. The system shall allow buyer to select the product and update desired quantity, desired quality.
      6. The system will display the amount for the selected product with applicable rates.
      7. The system will allow buyer to add the selected products to the **cart**.
      8. The system shall deny with message “Stock limit is exceeded” if buyer add more than 50 products to cart.
      9. The system should allow the buyer to buy, which then provides cash on delivery option.
      10. The system will display receipt to the buyer about the details of the products bought and vendor contact details.
   4. **Organic farming:**
      1. The system shall show a webpage where the buyer will select the type of crop for the organic farming details.
      2. The system will show the best practices details such as articles, process of the farming, pesticides to use, seed information, current farmer names, email in practice.

**Non-Functional requirements:**

1. The system is responsive for web browser.
2. The system shall run on following browsers: Google Chrome, Firefox, Microsoft Edge.
3. The system requires internet connectivity.

**Glossary:**

**Announcement:** a post by admin that includes a text and a date/time with information about grants/tips growing crops and livestock.

**Feedback:** Text area to provide a comment on the current system and suggest new improvements.

**Profile:** personalized space for a user who registered to access the features

**Deny:** if the entered username and password is incorrect then the system will not permit access.

**Credentials:** the main attributes like username and password which are entered to access the account.

**Product:** Name, Quantity, Description, Price, Product ID, Image.

**Username**: A unique identifier for account set by Vendor/Buyer.

**Password**: string which should contain minimum 6 Alpha numeric characters.

**security question:** A question with answer will be stored with the inputs of the Seller/Vendor like mother’s maiden name or first school studied.  
**Type**: Vegetables, Fruits, Seeds, Dairy products.

**Queries:** a doubt or issue that customer is facing.

**Cart:** a virtual space holds multiple products and but all in a single go

**Part2: Risk management**

1. Meeting Deadlines:
   1. Description: Due dates for the assigned work.
   2. Severity: High.
   3. Probability of Occurrence: Moderate.
   4. Description of Risk: Any work that has been assigned to an individual or a group, is unable to get completed in the given deadline results in the drop of grades and is considered as a high-risk factor.
   5. Plan to minimize risk: Proper guidance and communication among the team and completing the work with added prior buffer time to the deadline will meet the requirement..
2. Performance risk:
   1. Description: Performance and Availability of team individual.
   2. Severity: Medium
   3. Probability of occurrence: Minimum
   4. Description of risk: Poor performance of any individual in the team can lead to extra efforts on another person which can abate the outcome.
   5. Plan to minimize risk: Regular review of the work progress and tracking the deliverables. Helping each other if any individual faces any challenges.
3. Team Connectivity:
   1. Description: Communication issues.
   2. Severity: Medium
   3. Probability of occurrence: Minimum
   4. Description of risk: No proper communication within the team and proper platform to connect regularly.
   5. Plan to minimize risk: Weekly/standup meetings with the invitations created with prior consent and follow up if any misses the schedule. Regular review with the team regarding the tasks.
4. Health and safety risks:
   1. Description: Health issues for any individual.
   2. Severity: High
   3. Probability of occurrence: Moderate.
   4. Description of risk: Any individual absence due to Covid or any health issues can reduce the project deliverables.
   5. Plan to minimize risk: Tasks will be shared among the team in case of emergency and transparency of the work will be maintained.
5. Integration:
   1. Description: Integration to merge the code developed.
   2. Severity: moderate.
   3. Probability of occurrence: Minimum
   4. Description of risk: Module integration might lead to failure.
   5. Plan to minimize risk: Repository-based directory structure will be maintained and monitored. Versioning will be enabled so that at least the older version is available as a backup.