Capstone Project 1

Part 3/3

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Contents

[1. Functional Requirements 3](#_Toc194757032)

[2. Minimum 5 page designs 6](#_Toc194757033)

[3. Tools (Visio, Balsamiq) 9](#_Toc194757034)

[4. RTM 10](#_Toc194757035)

[5. 10 Test Case Documents 18](#_Toc194757036)

[6. DB Design 26](#_Toc194757037)

[7. Data flow diagram 26](#_Toc194757038)

[8. Change Request 27](#_Toc194757039)

[9. Change Request vs an enhancement 28](#_Toc194757040)

[10. Estimations 29](#_Toc194757041)

[11. UAT 29](#_Toc194757042)

[12. Project Closure Document 30](#_Toc194757043)

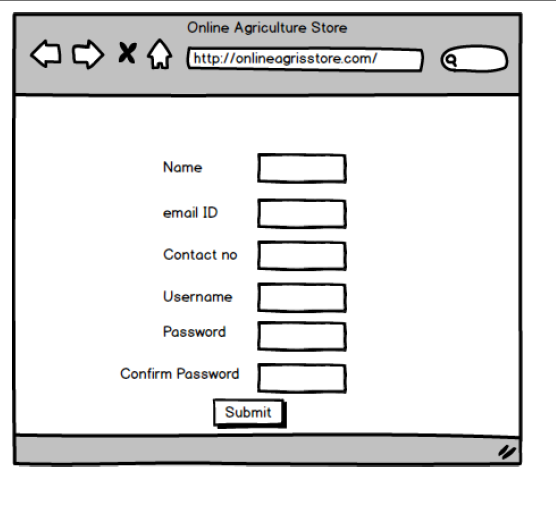
## Functional Requirements

ANS:

|  |  |  |  |
| --- | --- | --- | --- |
| **Req ID** | **Req Name** | **Req Description** | **Priority** |
| **FR001** | Farmer and Manufacturer Registration | Farmers and manufacturers should be able to register with the application | 9 |
| **FR002** | Farmer and Manufacturers Login | Farmers and manufacturers should be able to login to the application | 9 |
| **FR003** | Farmer/Manufacturers Password Forgot/Reset | Farmers and manufacturers should be able to reset their password if they forget | 8 |
| **FR004** | Manufacturers upload their Products | Manufacturers should be able to upload and display their products in the application | 10 |
| **FR005** | Farmer Search for Products | Farmers should be able to search for available products in fertilizers, seeds, pesticides | 10 |
| **FR006** | Farmers Should be Able to Sort the search results | Farmers should be able to sort the search results in ascending or descending order | 6 |
| **FR007** | Farmer should be able to filter search results | Farmers should be able to filter search results on various parameters such as price range, manufacturer/brand | 4 |
| **FR008** | Product review and rating | Farmer should be able to give and view product review and rating | 5 |
| **FR009** | Product estimated delivery, price, offers, discount | Farmers should be able to view the estimated delivery date based on their location on the individual product page and the price, discount option, and offers | 7 |
| **FR010** | Selecting Product Quantity | Farmer should be able to select product quantity | 8 |
| **FR011** | Buy/Buy Later | Farmer should be able to add the product to buy later or proceeding to buy the product | 8 |
| **FR012** | Total Cost | Farmer should be able to view the total bill/cost while he/she proceeds to the checkout page | 8 |
| **FR013** | Payment processing | Farmer should be able to select the payment option – CoD/Credit or debit card/UPI | 9 |
| **FR014** | Redirect to payment page | After selecting the payment option farmer should be able to move to the respective payment page to complete payment | 9 |
| **FR015** | Order confirmation and email | After successful payment completion farmer should receive email confirmation of order status | 6 |
| **FR016** | Delivery tracking | Farmers should be able to track delivery of the order | 5 |
| **FR017** | Chat option | Agriculture manufacturers should be able to communicate with farmers | 2 |
| **FR018** | Support | Farmers should be able to contact customer care team for any issues | 3 |
| **FR019** | Refund/cancellation/Return | Farmer must have option to return the product and get refund and option to cancel the order | 2 |
| **FR020** | Product comparison | Farmers should be able to add products to comparison and view the comparison table | 1 |

## Minimum 5 page designs

ANS: Registration



Login

A computer screen with a login box

AI-generated content may be incorrect.

Product Search

A screenshot of a computer

AI-generated content may be incorrect.

Product Page

A screenshot of a computer

AI-generated content may be incorrect.

Payment

A screenshot of a computer

AI-generated content may be incorrect.

## Tools (Visio, Balsamiq)

ANS:

**Visio**

Microsoft Visio is a digramming and vector graphics application that enables users to create a wide range of professional diagrams, including flowcharts, organizational charts, and network digrams. It offers an extensive library of templates and shapes, enabling the visualization of complex information in an understandable format.

For this Capstone Project 1, I used MS Visio for drawing activity digrams, use case diagram, database schema+ER diagram, and data flow diagram. The file extension is ‘.vsd’.

**Balsamiq**

Balsamiq is a user interface design tool that enables users to create low-fidelity wireframes and mockups for web, mobile, and desktop applcications. Its hand drawn style focuses on layout and structure, facilitating rapid idea vizualization and and iteration.

For this Capstone Project 1, I used Balsamiq for drawing page designs of the online agriculture store application. The file extension is ‘.bmpr’.

## RTM

ANS:

The below RTM is to be followed considering the client asks for the status in Week 55 (just around when D3 phase has started). The most important requirements (priority wise) are devevloped in the initial phases and accordingly their status has been updated.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Req ID** | **Req Name** | **Req Description** | **Priority** | **Information/Details** | **Design** | **D1** | **T1** | **D2** | **T2** | **D3** | **T3** | **D4** | **T4** | **UAT** | **Remarks** |
| **FR004** | Manufacturers upload their products | Manufacturers should be able to upload and display their products in the application | 10 | ABC1234.docx Upload products Page No: 30 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Completed | Unit Testing Completed |  |  |  |  |  |  | Pending | Integration Testing Pending |
| **FR005** | Farmer Search for Products | Farmers should be able to search for available products in fertilizers, seeds, pesticides | 10 | ABC1234.docx Search Products Page No: 40 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Completed | Unit Testing Completed |  |  |  |  |  |  | Pending | Integration Testing Pending |
| **FR001** | Farmer and Manufacturer Registration | Farmers and manufacturers should be able to register with the application | 9 | ABC1234.docx User registration Page No: 1 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Completed | Unit Testing Completed |  |  |  |  |  |  | Pending | Integration Testing Pending |
| **FR002** | Farmer and Manufacturers Login | Farmers and manufacturers should be able to login to the application | 9 | ABC1234.docx Login Page No: 10 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Completed | Unit Testing Completed |  |  |  |  |  |  | Pending | Integration Testing Pending |
| **FR013** | Payment processing | Farmer should be able to select the payment option – CoD/Credit or debit card/UPI | 9 | ABC1234.docx Payment Processing Page No: 120 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Completed | Unit Testing Completed |  |  |  |  |  |  | Pending | Integration Testing Pending |
| **FR014** | Redirect to payment page | After selecting the payment option farmer should be able to move to the respective payment page to complete payment | 9 | ABC1234.docx Redirect to payment page Page No: 130 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Pending | Pending | Completed | Unit Testing Completed |  |  |  |  | Pending | Integration Testing Pending |
| **FR003** | Farmer/Manufacturers Password Forgot/Reset | Farmers and manufacturers should be able to reset their password if they forget | 8 | ABC1234.docx Forgot Password/reset Page No: 20 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Pending | Pending | Completed | Unit Testing Completed |  |  |  |  | Pending | Integration Testing Pending |
| **FR010** | Selecting Product Quantity | Farmer should be able to select product quantity | 8 | ABC1234.docx Product Qty Page No: 90 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Pending | Pending | Completed | Unit Testing Completed |  |  |  |  | Pending | Integration Testing Pending |
| **FR011** | Buy/Buy Later | Farmer should be able to add the product to buy later or proceeding to buy the product | 8 | ABC1234.docx Buy/Buy Later Page No: 100 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Pending | Pending | Completed | Unit Testing Completed |  |  |  |  | Pending | Integration Testing Pending |
| **FR012** | Total Cost | Farmer should be able to view the total bill/cost while he/she proceeds to the checkout page | 8 | ABC1234.docx Total Cost Page No: 110 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Pending | Pending | Completed | Unit Testing Completed |  |  |  |  | Pending | Integration Testing Pending |
| **FR009** | Product estimated delivery, price, offers, discount | Farmers should be able to view the estimated delivery date based on their location on the individual product page and the price, discount option, and offers | 7 | ABC1234.docx Price, offer, discount Page No: 80 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Pending | Pending | Pending | Pending | In-progress | Pending |  |  | Pending |  |
| **FR006** | Farmers Should be Able to Sort the search results | Farmers should be able to sort the search results in ascending or descending order | 6 | ABC1234.docx Sort Search result Page No: 50 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Pending | Pending | Pending | Pending | In-progress | Pending |  |  | Pending |  |
| **FR015** | Order confirmation and email | After successful payment completion farmer should receive email confirmation of order status | 6 | ABC1234.docx Order Conf Email Page No: 140 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Pending | Pending | Pending | Pending | In-progress | Pending |  |  | Pending |  |
| **FR008** | Product review and rating | Farmer should be able to give and view product review and rating | 5 | ABC1234.docx Review and rating Page No: 70 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Pending | Pending | Pending | Pending | In-progress | Pending |  |  | Pending |  |
| **FR016** | Delivery tracking | Farmers should be able to track delivery of the order | 5 | ABC1234.docx Delivery Tracking Page No: 150 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Pending | Pending | Pending | Pending | Pending | Pending |  |  | Pending |  |
| **FR007** | Farmer should be able to filter search results | Farmers should be able to filter search results on various parameters such as price range, manufacturer/brand | 4 | ABC1234.docx Filter Page No: 60 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Pending | Pending | Pending | Pending | Pending | Pending |  |  | Pending |  |
| **FR018** | Support | Farmers should be able to contact customer care team for any issues | 3 | ABC1234.docx Support Page No: 170 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Pending | Pending | Pending | Pending | Pending | Pending |  |  | Pending |  |
| **FR017** | Chat option | Agriculture manufacturers should be able to communicate with farmers | 2 | ABC1234.docx Chat option Page No: 160 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Pending | Pending | Pending | Pending | Pending | Pending |  |  | Pending |  |
| **FR019** | Refund/cancellation/Return | Farmer must have option to return the product and get refund and option to cancel the order | 2 | ABC1234.docx Refund/cancellation Page No: 180 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Pending | Pending | Pending | Pending | Pending | Pending |  |  | Pending |  |
| **FR020** | Product comparison | Farmers should be able to add products to comparison and view the comparison table | 1 | ABC1234.docx Comparison Page No: 190 Link: xxx Document Name: xyz.docx Date: 05 Apr '25 | Completed and Approved | Pending | Pending | Pending | Pending | Pending | Pending |  |  | Pending |  |

## 10 Test Case Documents

ANS:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test case ID** | PQ786TS001 | **Test case Name** | Search Query | | |
| **Project ID** | PQ786 | **Project Name** | Online Agriculture Store | | |
| **PM ID** | 4869 | **PM Name** | Raman V | | |
| **Test strategy ID** | PQ786TS001 | **Tester ID** |  | | |
| **Test plan ID** | PQ786TP001 | **Tester Name** |  | | |
| **Test schedule ID** | PQ786TS001 | **Date of Test** |  | | |
| **Scenario** | Search for product | | | | |
| **Link to that page:** | XXXX | | | | |
| **Input Data** | Set 1 Fertilizer | Set 2 Pesticides | Set 3 Seeds | Set 4 Invalid Product Name |  |
| **Expected behaviour** | 15 fetilizer options | 15 pesticide options | 15 seed options | Display "Invalid Name" |  |
| **Actual behaviour** | 15 fetilizer options | 14 pesticide options | 15 seed options | Display "Invalid Name" |  |
| **Comments** |  | Debugging needed |  |  |  |
| **Result (Pass/Fail)** | Pass | Pass (after debugging) | Pass | Pass |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test case ID** | PQ786TS002 | **Test case Name** | User Register | | |
| **Project ID** | PQ786 | **Project Name** | Online Agriculture Store | | |
| **PM ID** | 4869 | **PM Name** | Raman V | | |
| **Test strategy ID** | PQ786TS002 | **Tester ID** |  | | |
| **Test plan ID** | PQ786TP002 | **Tester Name** |  | | |
| **Test schedule ID** | PQ786TS002 | **Date of Test** |  | | |
| **Scenario** | Registration | | | | |
| **Link to that page:** | XXXX | | | | |
| **Input Data** | Set 1 User (Farmer/Manufacturers) enters correct details | Set 2 User enters incorrect details (such as weak password or invalid email) |  |  |  |
| **Expected behaviour** | Account created and email verification sent | Prompt user to enter correct details |  |  |  |
| **Actual behaviour** | Account created and email verification sent | Prompt user to enter correct details |  |  |  |
| **Comments** |  |  |  |  |  |
| **Result (Pass/Fail)** | Pass | Pass |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test case ID** | PQ786TS003 | **Test case Name** | User Login | | |
| **Project ID** | PQ786 | **Project Name** | Online Agriculture Store | | |
| **PM ID** | 4869 | **PM Name** | Raman V | | |
| **Test strategy ID** | PQ786TS003 | **Tester ID** |  | | |
| **Test plan ID** | PQ786TP003 | **Tester Name** |  | | |
| **Test schedule ID** | PQ786TS003 | **Date of Test** |  | | |
| **Scenario** | User tries to login | | | | |
| **Link to that page:** | XXXX | | | | |
| **Input Data** | Set 1 User (Farmer/Manufacturers) enters correct username and password | Set 2 User enters incorrect username and/or password | Set 3 User forgets username/password |  |  |
| **Expected behaviour** | User logs in to the home page | Prompt user to enter correct details | Send reset link to registered email |  |  |
| **Actual behaviour** | User logs in to the home page | Prompt user to enter correct details | Send reset link to registered email |  |  |
| **Comments** |  |  |  |  |  |
| **Result (Pass/Fail)** | Pass | Pass | Pass |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test case ID** | PQ786TS004 | **Test case Name** | Product Page | | |
| **Project ID** | PQ786 | **Project Name** | Online Agriculture Store | | |
| **PM ID** | 4869 | **PM Name** | Raman V | | |
| **Test strategy ID** | PQ786TS004 | **Tester ID** |  | | |
| **Test plan ID** | PQ786TP004 | **Tester Name** |  | | |
| **Test schedule ID** | PQ786TS004 | **Date of Test** |  | | |
| **Scenario** | User clicks on a particular product in search result and enter product page | | | | |
| **Link to that page:** | XXXX | | | | |
| **Input Data** | Set 1 User Clicks on a product and enters product page | Set 2 User updated the qunatity | Set 3 User enter pincode and clicks expected delivery time | Set 4 User clicks buy | Set 5 User clicks buy later |
| **Expected behaviour** | Redirected to the product, with detailed info - cost, offers/discounts, etc. | Quantity updated and cost also updated | Expected date of delivery displayed | Redirect to the payment page with total billing info | Move the product to buy later section |
| **Actual behaviour** | Redirected to the product, with detailed info - cost, offers/discounts, etc. | Quantity updated and cost also updated | Expected date of delivery displayed | Redirect to the payment page with total billing info | Move the product to buy later section |
| **Comments** |  |  |  |  |  |
| **Result (Pass/Fail)** | Pass | Pass | Pass | Pass | Pass |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test case ID** | PQ786TS005 | **Test case Name** | Payment | | |
| **Project ID** | PQ786 | **Project Name** | Online Agriculture Store | | |
| **PM ID** | 4869 | **PM Name** | Raman V | | |
| **Test strategy ID** | PQ786TS005 | **Tester ID** |  | | |
| **Test plan ID** | PQ786TP005 | **Tester Name** |  | | |
| **Test schedule ID** | PQ786TS005 | **Date of Test** |  | | |
| **Scenario** | User proceeds to complete payment | | | | |
| **Link to that page:** | XXXX | | | | |
| **Input Data** | Set 1 User moves to payment page after clicking buy | Set 2 User selects CoD | Set 3 User selects debit/ credit card | Set 4 User selects UPI |  |
| **Expected behaviour** | Display billing and shipping details, total bill, give payment options | Complete the payment and place order | Redirect to card service provider page for entering card details | Redirect to card UPI provider page for entering UPI details |  |
| **Actual behaviour** | Display billing and shipping details, total bill, give payment options | Complete the payment and place order | Redirect to card service provider page for entering card details | Redirect to card UPI provider page for entering UPI details |  |
| **Comments** |  |  |  |  |  |
| **Result (Pass/Fail)** | Pass | Pass | Pass | Pass |  |

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| --- | --- | --- | --- | --- | --- |
| **Test case ID** | PQ786TS006 | **Test case Name** | Product review | | |
| **Project ID** | PQ786 | **Project Name** | Online Agriculture Store | | |
| **PM ID** | 4869 | **PM Name** | Raman V | | |
| **Test strategy ID** | PQ786TS006 | **Tester ID** |  | | |
| **Test plan ID** | PQ786TP006 | **Tester Name** |  | | |
| **Test schedule ID** | PQ786TS006 | **Date of Test** |  | | |
| **Scenario** | Option for user to give rating and review | | | | |
| **Link to that page:** | XXXX | | | | |
| **Input Data** | Set 1 User give rating/review for a particular product |  |  |  |  |
| **Expected behaviour** | Accept details (rating out of 5 and review details) and publish on website for other users to see |  |  |  |  |
| **Actual behaviour** | Accept details (rating out of 5 and review details) and publish on website for other users to see |  |  |  |  |
| **Comments** |  |  |  |  |  |
| **Result (Pass/Fail)** | Pass |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test case ID** | PQ786TS007 | **Test case Name** | Delivery Tracking | | |
| **Project ID** | PQ786 | **Project Name** | Online Agriculture Store | | |
| **PM ID** | 4869 | **PM Name** | Raman V | | |
| **Test strategy ID** | PQ786TS007 | **Tester ID** |  | | |
| **Test plan ID** | PQ786TP007 | **Tester Name** |  | | |
| **Test schedule ID** | PQ786TS007 | **Date of Test** |  | | |
| **Scenario** | User selects a particular order for delivery tracking | | | | |
| **Link to that page:** | XXXX | | | | |
| **Input Data** | Set 1 User slects delivery trackinng for a particular order |  |  |  |  |
| **Expected behaviour** | Fetch details from logistics provider and display details (delviery date) and if not available display "status currently unavailable" |  |  |  |  |
| **Actual behaviour** | Fetch details from logistics provider and display details (delviery date) and if not available display "status currently unavailable" |  |  |  |  |
| **Comments** |  |  |  |  |  |
| **Result (Pass/Fail)** | Pass |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test case ID** | PQ786TS008 | **Test case Name** | Search Result Sorting | | |
| **Project ID** | PQ786 | **Project Name** | Online Agriculture Store | | |
| **PM ID** | 4869 | **PM Name** | Raman V | | |
| **Test strategy ID** | PQ786TS008 | **Tester ID** |  | | |
| **Test plan ID** | PQ786TP008 | **Tester Name** |  | | |
| **Test schedule ID** | PQ786TS008 | **Date of Test** |  | | |
| **Scenario** | User after getting search results selects sorting button to sort by rating or price | | | | |
| **Link to that page:** | XXXX | | | | |
| **Input Data** | Set 1 User selects sorting button to sort by rating or price |  |  |  |  |
| **Expected behaviour** | Display in descending/ascending order on alternate clicks of the button, by price or rating |  |  |  |  |
| **Actual behaviour** | Display in descending/ascending order on alternate clicks of the button, by price or rating |  |  |  |  |
| **Comments** |  |  |  |  |  |
| **Result (Pass/Fail)** | Pass |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test case ID** | PQ786TS009 | **Test case Name** | Support | | |
| **Project ID** | PQ786 | **Project Name** | Online Agriculture Store | | |
| **PM ID** | 4869 | **PM Name** | Raman V | | |
| **Test strategy ID** | PQ786TS009 | **Tester ID** |  | | |
| **Test plan ID** | PQ786TP009 | **Tester Name** |  | | |
| **Test schedule ID** | PQ786TS009 | **Date of Test** |  | | |
| **Scenario** | User wants customer support | | | | |
| **Link to that page:** | XXXX | | | | |
| **Input Data** | Set 1 User wants to raise a complaint for an order |  |  |  |  |
| **Expected behaviour** | Provide options for raising a compaint by allowing them to order details and provide customer care number |  |  |  |  |
| **Actual behaviour** | Provide options for raising a compaint by allowing them to order details and provide customer care number |  |  |  |  |
| **Comments** |  |  |  |  |  |
| **Result (Pass/Fail)** | Pass |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test case ID** | PQ786TS010 | **Test case Name** | Chat with manufacturer | | |
| **Project ID** | PQ786 | **Project Name** | Online Agriculture Store | | |
| **PM ID** | 4869 | **PM Name** | Raman V | | |
| **Test strategy ID** | PQ786TS010 | **Tester ID** |  | | |
| **Test plan ID** | PQ786TP010 | **Tester Name** |  | | |
| **Test schedule ID** | PQ786TS010 | **Date of Test** |  | | |
| **Scenario** | User wants an option to chat with the product manufacturer for custom requirement or further details | | | | |
| **Link to that page:** | XXXX | | | | |
| **Input Data** | Set 1 Selects chat with manufactuerer option |  |  |  |  |
| **Expected behaviour** | Connect them with the manufacturer |  |  |  |  |
| **Actual behaviour** | Connect them with the manufacturer |  |  |  |  |
| **Comments** |  |  |  |  |  |
| **Result (Pass/Fail)** | Pass |  |  |  |  |

## DB Design

ANS:

* Considering the entities: User (Farmer), Order, and Agriculture Product.
* Considered the various attributes (properties or traits) of the particular entity.
* Mentioned the relationships between the entities

A diagram of a data flow

AI-generated content may be incorrect.

## Data flow diagram

ANS:

A Data Flow Diagram (DFD) is a graphical tool that depicts the flow of data within a system, illustrating how information/data is processes and exchanged among components. It provides a visualization of where data originates, how it moves through processes, where it is stored, and how it exits the system.

A diagram of a software company

AI-generated content may be incorrect.

## Change Request

ANS:

Change requests in the online agriculture store project can be handled in the following manner:

1. Collect the required detailed information about the change to understand its purpose and scope.
2. Analyze how the change would impact the project scope timeline, and resources.
3. Present the change request and its impact analysis to decision makers for evaluation and authorization.
4. If approved, coordinate the execution of the change and inform all stakeholders about the updates.
5. Revise the project documents to update the change.

In the given case the change is about the government taxation structure, and will have to be updated:

1. Considering this is a change in the government regulation, it is imperative to collect the correct information about the tax rate changes in the system.
2. Then we should asses how the change would impact the scope and timeline of the project. Considering this is not an additional requirement, this change needs to be adopted. There would be need to update the change in the tax calculation logic in the online agriculture store application.
3. Present the update logic and impact, about which goods are impacted, etc to the APTI IT SOLUTIONS technical team and to Mr. Henry and other stakeholders.
4. After approval, update the stakeholder about the update logic change in tax calculations and revise the project documents.

## Change Request vs an enhancement

ANS:

In this case, Mr. Ben and Mr. Kevin (friends of Mr. Henry and farmers), have contacted and said that they want farmers to sell their crop yield through this application, that is the online agriculture store application. They want the display the products to public and be able to sell them. Moreover, they also want to introduce auction system for crop yields.

Considering this was not a part of the project this is an enhancement. So as a BA, one should document the requirements and work with the APT IT SOLUTIONS development team to determine the feasibility of the and impact of these features. Benefits, risks, and costs should be considered with regards to the selling of crop yields enhancement before giving recommendations to the client.

## Estimations

ANS:

Total Resources: Total 11 resources (including PM and BA)  
Total Duration: 18 months (1.5 years = ~ 78 weeks)

Total Man hours available: 78\*40\*11 = Approx. 34,000 hours (considering one resource works 40 hours a week)

Since, the resources are trained, additional trainers are not required.

This project can be considered as a large size project considering the resources man hours available/required.

Since, project size as per man hours:

Small: Upto 500 hours

Medium: Upto 1,000 hours

Large: Upto 1,500 hours

## UAT

ANS:

The UAT is an important phase in the Software Development Life Cycle (SDLC) and ensures that the online agriculture store application meets the business requirements and is ready for deployment. It typically involves the following steps:

1. Prepare test cases from use cases or assist test manager in line with business requirements
2. Perform high level testing
3. Prepare Mr. Henry and his team, and also the end users (farmers) for UAT
4. Provide test data to the stakeholders
5. Take signoff from Mr Henry’s team through the established communication channels.

## Project Closure Document

ANS:

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Points to include** | **Details** | **Reference link** |
| **1** | **Did the client signed off on the UAT Testing** | | Reference link (business case document).docx |
| Sign off Date | 05th April 2025 |
| Resource Name | Ms. Mary |
| **2** | **Objectives of the project** | |  |
| User friendliness | Achieved |
| Customer satisfaction | ROI in 12 months |
| Availiblity of Agri Products to farmers in remote areas | Achieved |
| **3** | **Functionalities worked on** | |  |
| Secure payment processing | Achieved |
| Product Search | Achieved |
| **4** | **Infrastructure** | |  |
| Software Installed | Achieved |
| Laptops purchased | Achieved |
| **5** | **Funding** | | Reference Link(Finance breakdown).docx |
| Amount approved | Rs.2 crore |
| Amount used | Rs. 1.6 croce |
| **6** | **Overall project information** | |  |
| Escalations | 45 |
| Customer satisfaction | High |
| **7** | **Value to the company** | |  |
| Positive/Negative | Positive - 95% - Mr, Henry has given the required application to his friends and other farmers in remote areas - Increased clients for agriculture product manufacturers - Increased revenue for farmers - New project in pipeline |  |