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| **Test Case #:** 0.1 | **Test Case Name:** Login |
| **System:** DSS |  |
| **Short Description:** Login in to the system |  |

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| **Pre-conditions**  The user has access rights to access the web and mobile application |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Enter username “bjdelfin” and password “xoxoxo” | System redirects user MDO Hompage | Pass |  |
| 2 | Repeat step 1 with the input “jaysonrev” and password “xoxoxo” | System redirects to Board Homepage | Pass |  |
| 3 | Repeat step 1 with the input “michaelgoch” and password “xoxoxo” in mobile | System redirects to farmer homepage in mobile | Pass |  |
| 4 | No input. Click login | System will not redirect to homepage | Pass |  |
| 5 | Repeat step 1 with the input “a” for username | System will not redirect to homepage | Pass |  |
| 6 | Repeat step 1 with the input “-1” for password | System will not redirect to homepage | Pass |  |

**Board Member User**

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| **Test Case #:** 1.1 | **Test Case Name:** View Production |
| **System:** DSS |  |
| **Short Description:** View Production data nationwide |  |

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| **Pre-conditions**  The user has access rights to access the board dashboard |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Login with a board member user and verify | System redirects user to Board Hompage | Pass |  |
| 2 | Choose from the dropdown TC, LKG or HA to view different graphs | Graph changes according to selection from dropdown | Pass |  |
| 3 | Click the graph to drilldown each week’s production | System redirects to production for the week | Pass |  |
| 4 | Click more details in the region production | System redirects to weekly production data of provinces part of the region | Pass |  |

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| **Test Case #:** 1.2 | **Test Case Name:** View Programs |
| **System:** DSS |  |
| **Short Description:** View Program details nationwide |  |

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| **Pre-conditions**  The user has access rights to access the programs |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Click more details in the plans and programs section | System redirects to program details | Pass |  |
| 2 | Click view programs in the navigation bar | System redirects to program list | Pass |  |

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| **Test Case #:** 1.3 | **Test Case Name:** Create Programs |
| **System:** DSS |  |
| **Short Description:** Create programs for farmers |  |

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| **Pre-conditions**  The user has access rights to access the programs |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Select problems and click continue | System redirects to step 2 of programs | Pass |  |
| 2 | Input program name, duration and description and click continue | System redirects to step 3 of programs | Pass |  |
| 3 | Input performance indicator and target for the year and click submit | System saves the program created | Pass |  |
| 4 | Repeat step 2 with no input in program name | System will not redirect to next step | Pass |  |

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| **Test Case #:** 1.4 | **Test Case Name:** Update Programs |
| **System:** DSS |  |
| **Short Description:** Update programs for farmers |  |

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| **Pre-conditions**  The user has access rights to access the programs |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Go to view programs from nav bar and select a program | System redirects program details | Pass |  |
| 2 | Update the value in target by inputting numeric values and click update | System updates program details | Pass |  |
| 3 | Input performance indicator and target for the year and click submit | System saves the program created | Pass |  |
| 4 | Repeat step 2 with no input in program name | System will not redirect to next step | Pass |  |

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| **Test Case #:** 1.5 | **Test Case Name:** Generate Forecast |
| **System:** DSS |  |
| **Short Description:** Generate crop estimate |  |

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| **Pre-conditions**  The user has access rights to access the crop estimate |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Input the parameters needed with numerical values and click generate forecast | System generates 3 forecasts | Pass |  |
| 2 | Repeat step 1 with string inputs | System will not generate forecasts | Pass |  |
| 3 | Choose from the dropdown 1 of the 3 estimate options | System updates the crop estimate in the dashboard | Pass |  |

**MDO User**

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| **Test Case #:** 2.1 | **Test Case Name:** View production of municipal |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access MDO dashboard and farmer profile |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Click the municipal from the treemap | System redirects to municipal production page | Pass |  |
| 2 | Select a unit in the dropdown to update the graph | Graph updates according to the unit selected | Pass |  |

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| **Test Case #:** 2.2 | **Test Case Name:** View production of Barangay |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access MDO dashboard and farmer profile |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Drilldown the treemap and click on a barangay | System redirects barangay production | Pass |  |
| 2 | Select a municipal to go to the production details then choose a barangay | System redirects barangay production | Pass |  |
| 3 | Select a unit in the dropdown to update the graph | Graph updates according to the unit selected | Pass |  |

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| **Test Case #:** 2.3 | **Test Case Name:** View production of Farmer |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access MDO dashboard and farmer profile |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Drilldown the treemap and click on a farmer | System redirects farmer profile | Pass |  |
| 2 | Select a municipal to go to the production details then choose a barangay. Afterwards select a farmer from that barangay | System redirects farmer profile | Pass |  |

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| **Test Case #:** 2.4 | **Test Case Name:** View production of Farm |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access MDO dashboard and farm profile |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Drilldown the treemap and click on a farmer | System redirects to farmer profile | Pass |  |
| 2 | Select a farm from the farmer profile | System redirects to farm profile | Pass |  |
| 3 | Select a municipal to go to the production details then choose a barangay. Afterwards select a farmer from that barangay then select a farm from the farmer profile | System redirects to farm profile | Pass |  |

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| **Test Case #:** 2.5 | **Test Case Name:** Create Observation |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access MDO dashboard and farm profile |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | From the farm profile, click create observation, then select tag/s | System generates farms with the corresponding tag/s | Pass |  |
| 2 | Select 5 farms and click create comparison | System updates program details | Pass |  |

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| **Test Case #:** 2.6 | **Test Case Name:** Create Comparison |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access MDO dashboard and farmer profile |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Select farmers and recommendations then click send recommendations | System sends the recommendation to the mobile application | Pass |  |
| 2 | Update the value in target by inputting numeric values and click update | System updates program details | Pass |  |
| 3 | Input performance indicator and target for the year and click submit | System saves the program created | Pass |  |
| 4 | Repeat step 2 with no input in program name | System will not redirect to next step | Pass |  |

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| **Test Case #:** 2.7 | **Test Case Name:** View programs |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access to program details |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Go to view programs from nav bar and select a program | System redirects program details | Pass |  |

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| **Test Case #:** 2.8 | **Test Case Name:** Create Crop Assessment |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access MDO dashboard and farmer profile |

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| **Step** | **Action** | | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Click Crop assessment, input the narrative, click print | | System generates a report | Pass |  |
| **Test Case #:** 2.9 | | **Test Case Name:** Create Recommendation | | | |
| **System:** DSS | |  | | | |
| **Short Description:** | |  | | | |

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| **Pre-conditions**  The user has access rights to access MDO dashboard and farmer profile |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Go to create recommendation from the navigation bar | System redirects to create recommendation page | Pass |  |
| 2 | Input the details and choose Aims to improve, input duration and click create | System creates recommendation | Pass |  |
| 3 | Input the details and choose Aims to solve”, select problem/s and click create | System creates recommendation | Pass |  |
| 4 | Repeat step one and verify the new recommendation | System redirects to create recommendation page | Pass |  |

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| **Test Case #:** 2.10 | **Test Case Name:** Generate Forecast |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access MDO dashboard and farmer profile |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Input the parameters needed with numerical values and click generate forecast | System generates 3 forecasts | Pass |  |
| 2 | Repeat step 1 with string inputs | System will not generate forecasts | Pass |  |
| 3 | Choose from the dropdown 1 of the 3 estimate options | System updates the crop estimate in the dashboard | Pass |  |

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| **Test Case #:** 2.11 | **Test Case Name:** Send Alerts |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access MDO dashboard and farmer profile |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Go to alerts from the navigation bar | System redirects to alerts list page | Pass |  |
| 2 | Click send alert to the area selected and input message and click send | System sends to farmer mobile application | Pass |  |

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| **Test Case #:** 2.12 | **Test Case Name:** Configure Calendar |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access MDO dashboard and farmer profile |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Go to calendar from the navigation bar | System redirects calendar page | Pass |  |
| 2 | Input the dates for each phase of the crop year and click edit | Calendar updates the dates of the crop phases | Pass |  |

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| **Test Case #:** 2.13 | **Test Case Name:** View Forum |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access MDO dashboard and farmer profile |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Go to forum from the nav bar. | System redirects forum list | Pass |  |
| 2 | Click more details on a forum | System redirects to forum page | Pass |  |

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| **Test Case #:** 2.14 | **Test Case Name:** Evaluate Forum |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access MDO dashboard and forum |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Evaluate the post and click approve | System changes the post status to accepted | Pass |  |
| 2 | Repeat step 1 and click reject | System prompts for action tools | Pass |  |
| 3 | Repeat step 2 and link to recommendation from the list and click send | System sends the reply to the mobile application | Pass |  |
| 4 | Repeat step 2 and link to problems from the list and click send | System sends the reply to the mobile application | Pass |  |
| 5 | Repeat step 2 and link to post from the list and click send | System sends the reply to the mobile application | Pass |  |

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| **Test Case #:** 2.15 | **Test Case Name:** Create Farmer |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access MDO mobile application |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Input details needed and click register | System registers a new farmer | Pass |  |

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| **Test Case #:** 2.16 | **Test Case Name:** Search Farmer |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access MDO dashboard and farmer profile |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Go to search farmer from the navigation bar | System redirects search farmer page | Pass |  |
| 2 | Search for a specific farmer and verify | System generates the farmers corresponding to the search input | Pass |  |
| 3 | Click more details | System redirects to farmer profile | Pass |  |

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| **Test Case #:** 2.16 | **Test Case Name:** View Recommendation |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access MDO dashboard and farmer profile |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Go to recommendations list in from the navigation bar | System redirects to recommendations list | Pass |  |
| 2 | In the recommendations list, select a recommendation | System redirects to recommendations details | Pass |  |

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| **Test Case #:** 2.17 | **Test Case Name:** View Problems |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access MDO dashboard and farmer profile |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Go to problems list in from the navigation bar | System redirects to problems list | Pass |  |
| 2 | In the problem list, select a problem | System redirects to problem details | Pass |  |

**Farmer User**

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| **Test Case #:** 3.1 | **Test Case Name:** Plot Area |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access farmer mobile application |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Plot the coordinates in the map and click ok | System updates the information for area | Pass |  |

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| **Test Case #:** 3.2 | **Test Case Name:** View Alerts |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access Farmer Mobile App |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Login to the mobile application | System redirects to farmer homepage | Pass |  |
| 2 | View the alerts and verify | Alerts can be viewed by the user | Pass |  |

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| **Test Case #:** 3.3 | **Test Case Name:** Create Survey |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access farmer mobile application |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Click Crop Validation Survey and fill up the fields and click send | System updates farmer profile | Pass |  |

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| **Test Case #:** 3.4 | **Test Case Name:** Create Forum Post |
| **System:** DSS |  |
| **Short Description:** |  |

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| **Pre-conditions**  The user has access rights to access Farmer mobile application |

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| **Step** | **Action** | **Expected System Response** | **Pass/Fail** | **Comment** |
| 1 | Go to forum, create a post and take a photo. Click submit | System sends post to web application | Pass |  |