**CRA Report for U-NID Registration and Issuance**

| **Topic : Simulating Operations of U-NID Registration and Issuance** | | |
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| **2220222** | **Rabiul Islam Raihan** | **User1: Citizen** |
| **User2: Human Resource Officer** |
| **2022650** | **Kawshik Rahman Kabbo** | **User3: Finance Officer** |
| **User4: Registration and Correction Officer** |
| **2022664** | **Sudipta Saha** | **User5: Distribution Officer** |
| **User6: Supplier** |
| **2022542** | **Al Amin** | **User7: Field Officer** |
| **User8: Research and Development Officer** |

**Possible Event Type:**

* UIE : User Input to trigger Event
* UID : User Input to be considered as Data
* OP : Display content (Output)
* PC : Prerequisite check
* VL : Validation check
* VR : Verification check
* DP : Fetching data from file system and process it to get some calculated

outcome (data processing)

| **Preliminary Event: Sign Up / Log in** | | | | | |
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|  |  | | | | Event Type |
| Workflow: | Event-1 | This scene consists of **1 Dropbox**, **1 Label** and **1 Button**. The box with the label says “**Sign in as**”.  On the right side of this label, there will be a Dropbox which will have the following options: “**Citizen, Human Resource Officer, Finance Officer, Registration and Correction Officer, Distribution Officer, Supplier, Field Officer, Research and Development Officer”.** Below this Dropbox there will be a button “**Next**”. | | | OP |
|  | Event-2 | Select any User from the dropbox and click on the “**Next**” Button. | | | UIE |
|  | Event-3 | A new scene will appear consisting of **2 Labels**, **2 Text Fields**, and **2 Buttons**. **An additional Button** will appear if “**Citizen**” was chosen in **event-2.**  The first Label says: “**Enter your Email ID:** “. The second Label says, “**Enter Password:** ”. Below these Labels and Text Fields, The Button on the left says, “**Forgot Password**” and the Button on the Right says, “**Log in''**. The additional Button says, “**Create Account**”. If the “**Forgot Password**” button is clicked it will lead to **event-4**. If the “**Log in**” is clicked it will lead to **event-5**. If the “**Create Account**” is clicked it will lead to **event-6**. | | | UIE, UID, OP |
|  | Event-4 | New scene will appear. There will be **1 Label (“Enter you Email: “) , 1 Text Field, 1 Button (“Reset Password”)**. After clicking on the Button it will lead to **event-7**. If the email doesn’t exist in the database**,** a message will be prompted on the screen, “**Account not found, check the email address again**”. Otherwise it will lead to event-8.Then it will lead to event-9. Then a message will be prompted “**Password has been Updated**”. | | | UIE, UID, OP |
|  | Event-5 | It will lead to event 7. If the Email does not exist, a message will be prompted “ **Account not found**”. Otherwise it will lead to event-8 and then event-9. After that it will lead to the homepage of the user’s account. | | |  |
|  | Event-6 | New scene will appear. There will be **1 Label (“Enter you Email: “) , 1 Text Field, 1 Button (“Next”)**. After clicking on the Button it will lead to **event-7**. If the email already exists in the database**,** a message will be prompted on the screen, “**Account already exists**”. Otherwise it will lead to event-8.Then it will lead to event-9. Then a message will be prompted “**Congratulations! Your account has been created. Go to the Log In page**”. | | | UIE, UID, OP, |
|  | Event-7 | In this event the validity of the given Email will be checked.   * A valid email address consists of an email prefix and an email domain. * The prefix appears to the left side of the ‘@’ symbol. Prefix must be at least 6 characters long * The domain appears to the right of the ‘@’ symbol which consists of at least one period. * Allowed characters: letters (a-z), numbers and periods.   If the given Email address is invalid, a text will be prompted on the screen saying “Invalid Email Address”. Otherwise it will check if the email already exists in the database and return the result to from where this event was called. | | | VL, VR, DP |
|  | Event -8 | A new scene will appear where there will be a label “**Enter sent Verification Code:** “, a text field, a button “**Verify**”. A verification code will be prompted on the screen. If the button is clicked it will be checked if the given code is the same as the prompted code. If it matches then it will return to the previous event. Otherwise a message will be prompted “**Verification Failed**”. | | | UIE, UID, OP |
|  | Event -9 | In this scene there will be 2 labels “**Enter New Password:** “ and  “Passwords should have at least one numeric digit(0-9).  Password's length should be in between 8 to 20 characters.  Passwords should have at least one lowercase letter(a-z).  Passwords should have at least one uppercase letter(A-Z).  Password should have at least one special character ( @, #, %, &, !, $, \*).”  a text box, a button “**Enter**”. If the Password is valid it will return to the event from where it was called. Otherwise, a message will be prompted “Invalid Password”. | | | UIE, UID, OP, VL |

| **User1 : Citizen** | | | |
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| **User 1**  **Goal 1** | **Citizen can go to the profile and view his/her information** | | **Event Type** |
|  | **Event-1** | **Log in Process (Preliminary Event: Sign Up / Login)** | **Same as (Preliminary Event: Sign Up / Log in)** |
|  | **Event- 2** | **A home page will appear.** | **OP** |
|  | **Event-3** | **Users will click on the profile button and will be able to see their personal and NID information.** | **OP, UIE** |
|  | **Event-4** | **User will go back to homepage/ Log out** | **UIE** |
| **User 1**  **Goal 2** | **Citizen can apply for U-NID** | | **Event Type** |
|  | **Event-1** | **Log in Process (Preliminary Event: Sign Up / Login)** | **Same as (Preliminary Event: Sign Up / Log in)** |
|  | **Event-2** | **User will input all the personal information needed** | **UID, VL, VR, DP** |
|  | **Event-3** | **The user is prompted that their card is pending approval of Registration and Correction Officer** | **OP** |
|  | **Event-6** | **User will go back to homepage/ Log out** | **UIE** |
| **User1**  **Goal 3** | **Can View and download NID Card** | | **Event Type** |
|  | **Event-1** | **Log in Process (Preliminary Event: Sign Up / Login)** | **Same as (Preliminary Event: Sign Up / Log in)** |
|  | **Event-2** | **User can see NID soft copy and click on Download button** | **OP, UIE** |
|  | **Event-3** | **The soft copy is sent to the user’s email address, the user is prompted on their screen** | **DP, OP** |
| **User1**  **Goal 4** | **Can Apply to Retrieve Lost or Stolen NID Card** | | **Event Type** |
|  | **Event-1** | **Log in Process (Preliminary Event: Sign Up / Login)** | **Same as (Preliminary Event: Sign Up / Log in)** |
|  | **Event-2** | **Users will click on the “Retrieve NID” Button from the homepage.** | **UIE** |
|  | **Event-3** | **Users will submit their reason for reissue of their NID.**  **Then the user will click on the submit button.** | **UID, UIE** |
|  | **Event-4** | **User will go back to homepage/ Log out** | **UIE** |
| **User1**  **Goal 5** | **Can Apply for NID Information Corrections** | | **Event Type** |
|  | **Event-1** | **Log in Process (Preliminary Event: Sign Up / Login)** | **Same as (Preliminary Event: Sign Up / Log in)** |
|  | **Event-2** | **Users will click on the “Correction” Button from the homepage.** | **UIE** |
|  | **Event-3** | **User will edit the desired information and click on the “Apply for correction”.** | **UID, UIE** |
|  | **Event-4** | **User will pay fee for the correction application** | **UIE, UID** |
|  | **Event-5** | **User will see the updates on “Correction Approval” from Registration and Correction Officer** | **OP** |
|  | **Event-6** | **User will go back to homepage/ Log out** | **UIE** |
| **User1**  **Goal 6** | **Can Apply for NID Re-Registration** | | **Event Type** |
|  | **Event-1** | **Log in Process (Preliminary Event: Sign Up / Login)** | **Same as (Preliminary Event: Sign Up / Log in)** |
|  | **Event-2** | **Users will click on the “Re-Registration” button from the home page.** | **UIE** |
|  | **Event-3** | **Re-Registration validity will be checked.** | **VL** |
|  | **Event-4** | **If criteria for Re-Registration is valid, the user can click on the button “Apply for Re-Registration”.** | **UIE** |
|  | **Event-5** | **User will pay fee for the Re-Registration** | **UID, UIE** |
|  | **Event-6** | **User will be able to see the updates of approval for Re-Registration** | **OP** |
|  | **Event-7** | **User will go back to homepage/ Log out** | **UIE** |
| **User1**  **Goal 7** | **Can Apply for Migration of Voter Area** | | **Event Type** |
|  | **Event-1** | **Log in Process (Preliminary Event: Sign Up / Login)** | **Same as (Preliminary Event: Sign Up / Log in)** |
|  | **Event-2** | **Users will click on the “Migration” button from the home page.** | **UIE** |
|  | **Event-3** | **User will submit their reasons for the apply for voter area change and click on the submit button** | **UID, UIE** |
|  | **Event-4** | **User will select the new voter area and submit** | **UID, OP** |
|  | **Event-5** | **User will pay fee for the Application for Migration of Voter Area** | **UID, UIE** |
|  | **Event-6** | **User can see the approval updates of Application for Migration of Voter Area from Registration and Correction Officer** | **OP** |
|  | **Event-7** | **User can go back to the homepage/ Log out** | **UIE** |
| **User1**  **Goal 8** | **Can view FAQ and submit query** | | **Event Type** |
|  | **Event-1** | **Log in Process (Preliminary Event: Sign Up / Login)** | **Same as (Preliminary Event: Sign Up / Log in)** |
|  | **Event-2** | **User will click on the button “FAQ” from homepage** | **UIE** |
|  | **Event-3** | **They can see the top FAQs** | **OP** |
|  | **Event-4** | **They can click on the button “Ask a Question” and submit their Queries** | **UID, UIE** |
|  | **Event-5** | **They can see the updates of the answers to the asked question which will be given by the Registration and Correction Officer** | **OP** |
|  | **Event-6** | **User can go back to homepage/ Log out** | **UIE** |

| **User2: Human Resources Officer** | | | |
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| **User2**  **Goal 1** | **Can Hire Employee** | | **Event Type** |
|  | **Event-1** | **Log in Process (Preliminary Event: Sign Up / Login)** | **Same as (Preliminary Event: Sign Up / Log in)** |
|  | **Event-2** | **User will select the “Hire” button from the homepage** | **UIE** |
|  | **Event-3** | **Users will be able to see Application, Applicant’s Informations.** | **OP** |
|  | **Event-4** | **Users can hire any Employee by clicking on the “Hire” button on the application page.** | **UIE** |
|  | **Event-5** | **User will create an account for the new employee** | **UIE, VL, VR, DP, OP** |
|  | **Event-6** | **User will go back to homepage/ Log out** | **UIE** |
| **User2**  **Goal 2** | **Can Promote Employee** | | **Event Type** |
|  | **Event-1** | **Log in Process (Preliminary Event: Sign Up / Login)** | **Same as (Preliminary Event: Sign Up / Log in)** |
|  | **Event-2** | **Users will click on the “Promote” button from the homepage.** | **UIE** |
|  | **Event-3** | **Users will see the current Employee list, their designations.** | **OP** |
|  | **Event-4** | **Users will select an employee and go to their profile and update their designation and click on the “Promote” Button.** | **UIE, UID** |
|  | **Event-5** | **User will go back to the homepage/ Log out** | **UIE** |
| **User2**  **Goal 3** | **Can Terminate Employee** | | **Event Type** |
|  | **Event-1** | **Log in Process (Preliminary Event: Sign Up / Login)** | **Same as (Preliminary Event: Sign Up / Log in)** |
|  | **Event-2** | **Users will click on the “Terminate” button from the homepage.** | **UIE** |
|  | **Event-3** | **Users will see the current Employee list, their designations.** | **OP** |
|  | **Event-4** | **Users will select an employee and go to their profile and click on the “Terminate” Button.** | **UIE, OP** |
|  | **Event-5** | **Users will submit a reason for termination and click the “OK” button. This action will send a notification (The reason for termination) to that employee’s account.** | **UID, UIE, OP** |
|  | **Event-5** | **User will go back to the homepage/ Log out** | **UIE** |
| **User2**  **Goal 4** | **Can See Employees’ Information, Performance, Attendance** | | **Event Type** |
|  | **Event-1** | **Log in Process (Preliminary Event: Sign Up / Login)** | **Same as (Preliminary Event: Sign Up / Log in)** |
|  | **Event-2** | **Users will click on the “Employee” button from the homepage.** | **UIE** |
|  | **Event-3** | **Users will see the current Employee list.** | **OP** |
|  | **Event-4** | **Users will select an employee and go to their profile and see the attendance, performance, previous records, Personal Informations of that employee** | **UIE, OP** |
|  | **Event-5** | **User will go back to the homepage/ Log out** | **UIE** |
| **User2**  **Goal 5** | **Can Conduct Training sessions and Meetings with employees** | | **Event Type** |
|  | **Event-1** | **Log in Process (Preliminary Event: Sign Up / Login)** | **Same as (Preliminary Event: Sign Up / Log in)** |
|  | **Event-2** | **Users will click on the “Meeting” button from the homepage.** | **UIE** |
|  | **Event-3** | **Users will select any one from the “Training session” or “Conduct Meeting” button.** | **UIE** |
|  | **Event-4** | **Users will see the employee list and will select employees for invitation. Then click “Next”** | **OP, UIE** |
|  | **Event-5** | **User will give a name to the meeting/training session and prepare schedule** | **UID** |
|  | **Event-6** | **Users will click on the “Conduct” button and a notification will be sent to the chosen employee’s profile about the meeting/training session’s information.** | **UIE, OP** |
|  | **Event-7** | **User will go back to homepage/ Log out** | **UIE** |
| **User2**  **Goal 6** | **Can See and update the Payroll** | | **Event Type** |
|  | **Event-1** | **Log in Process (Preliminary Event: Sign Up / Login)** | **Same as (Preliminary Event: Sign Up / Log in)** |
|  | **Event-2** | **Users will click on the “Payroll” button from the homepage.** | **UIE** |
|  | **Event-3** | **Users can send all the employees’ salaries at once by clicking on the “Send Salary” button. Or, Event-3** | **UIE** |
|  | **Event-3** | **User will see the list of the employees** | **OP** |
|  | **Event-4** | **User can select any employee and got their profile and see the payroll records of that employees** | **UIE, OP** |
|  | **Event-5** | **Users can edit the amount of the salary of the employee and pay salary. Salary will only send to each employee only once a month** | **UIE, UID, VL** |
|  | **Event-6** | **User will go back to homepage/ Log out** | **UIE** |
| **User2**  **Goal 7** | **Can See and Solve Employee’s Complaints/ problems** | | **Event Type** |
|  | **Event-1** | **Log in Process (Preliminary Event: Sign Up / Login)** | **Same as (Preliminary Event: Sign Up / Log in)** |
|  | **Event-2** | **Users will click on the “Employee Query” button from the homepage.** | **UIE** |
|  | **Event-3** | **Users will see the list of the Queries** | **OP** |
|  | **Event-3** | **User will select any query and see the query** | **OP, UIE** |
|  | **Event-4** | **User will send a solution to the problem or complaint. Which will be prompted in the profile of that employee** | **UIE, UID, OP** |
|  | **Event-5** | **User will go back to homepage/ Log out** | **UIE** |
| **User 2**  **Goal 8** | **Can Send notice/ important message to certain employees** | | **Event Type** |
|  | **Event-1** | **Log in Process (Preliminary Event: Sign Up / Login)** | **Same as (Preliminary Event: Sign Up / Log in)** |
|  | **Event-2** | **Users will click on the “Notice” button from the homepage.** | **UIE** |
|  | **Event-3** | **Users will select any one either the “Send message to all employees” button or the “Send message to certain employees” button** | **UIE** |
|  | **Event-4** | **If “certain employees” is selected then the list of all the employees will appear. User will select the employees and click next** | **OP, UIE** |
|  | **Event-5** | **User will type a message and click the “Send” button. After which the message will be send to the Employees Profile** | **UID, UIE, OP** |
|  | **Event-6** | **User will go back to homepage/Log out** | **UIE** |

| User3: Finance Officer | | |  |
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| User3, Goal 1 | Can Create a New Budget. | | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Finance officer Dashboard will be loaded. | OP |
|  | event-3 | Click on the “Create New Budget” from the menu then display page will show where Nid Card Making Cost, Transportation Fee, Software Update/Fix, HR Officer Training Cost, Tax, Total EmployeeSalary, Budget Published Date And Budget Year etc all type of fields will be there for budget creation. | UIE,DP |
|  | event-4 | If clicked on the “ Save All budget Criteria” then the fields will be saved and stored. | UIE,DP |
|  | event-5 | If clicked on the back button go to the previous event. | UIE,OP |
| User3, Goal 2 | View And Modify The Budget. | | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Finance officer Dashboard will be loaded. | OP |
|  | event-3 | If clicked The “Budget Read Object Stream” button can see the previously created budget. | UIE |
|  | event-4 | If it is necessary to Modify the budget, then clicked the “Modify Budget” where Nid Card Making Cost, Transportation Fee, Software Update/Fix, HR Officer Training Cost, Tax, Total EmployeeSalary, Budget Published Date And Budget Year etc all type of fields will be there for modify budget creation. | OP |
|  | event-5 | If clicked on the “ Save Write Modify Budget” button then the fields will be saved and stored. And clicking the “Read Modify Budget” button can see the store value of the modified budget. | UIE,PC |
|  | event-6 | If clicked on the back button go to the previous event. | UIE,OP |
| User3, Goal 3 | Update Current Financial Report. | | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Finance officer Dashboard will be loaded. | OP |
|  | event-3 | Click on the “Current Financial report” button from the menu then the display page will show where the Report Generate Date, Manufacturing Cost, Transportation Fee, Software Update, Tax, Employee Salary etc. table chart will have all kinds of fields to create a financial report. | UIE |
|  | event-4 | If clicked on the “Add Array To All Fields” then all values will be stored in the array.Then click the “Add To File” All values will be Write to the file. And clicking the “Read Object Stream File ” can view all store values. | OP,PC |
|  | event-5 | If clicked on the back button go to the previous event. | UIE,OP |
| User3, Goal 4 | View And Analysis Financial Report. | | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,  VR,DP |
|  | event-2 | If Login successful, The Finance officer Dashboard will be loaded. | OP |
|  | event-3 | If clicked The “Read Object Financial Report” button can see the previously created Financial Report where Report Generates Date, Manufacturing Cost, Transportation Fee, Software Update, Tax, Employee Salary etc. all types of fields including. | UIE |
|  | event-4 | If it is necessary to Modify Financial Report, then editable access will be given to each field. | OP |
|  | event-5 | Clicked on the “download pdf” button to download (“pdf” file) the financial report. | UIE,DP |
|  | event-6 | If clicked on the back button go to the previous event. | UIE,OP |
| User3, Goal 5 | Checking payment transactions During this year. | | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Finance officer Dashboard will be loaded. | OP |
|  | event-3 | Click on the “Checking Payment Transaction ” button from the menu then the display page will show where Transaction Sector, Transaction Amount, Date And Time Of Transaction, Payment Method etc all type of field will be there to keep track of transaction. | UIE |
|  | event-4 | If clicked on the “Create and check transaction payment” button then the fields will be saved and stored. And Clicking the “Read checking payment transaction”button can see the stored transaction value. | UIE |
|  | event-5 | If clicked on the back button go to the previous event. | UIE,OP |
| User3, Goal 6 | Create Balance Sheets. | | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Finance officer Dashboard will be loaded. | OP |
|  | event-3 | Click on the “Create Balance Sheet” button from the menu then the display page will show where the Balance Sheet Generate Date, Budget, Total Expenditure, Total Transaction etc. table chart will have all kinds of fields to create a Balance Sheet. | UIE |
|  | event-4 | If clicked on the “Add Array To All Fields” button then all values will be stored in the array.Then click the “Add write To File” button All values will be Write to the file. And clicking the “Read Object Stream File ” button can view all store values. | OP,PC |
|  | event-5 | If clicked on the back button go to the previous event. | UIE,OP |
| User3, Goal 7 | View and analysis Tax Report. | | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Finance officer Dashboard will be loaded. | OP |
|  | event-3 | Click on the “Tax Report ” button from the menu then the display page will show where Khatian Number, Land Tax, Tax Status, Tax Submission Date, Due Amount Tax etc all types of fields will be there to create a tax report. | UIE |
|  | event-4 | If clicked on the “Save And Write Tax Report” button then the fields will be saved and stored. And Clicking the “Read The Tax Report” button can see the stored Tax Report value. | OP,PC |
|  | event-5 | If clicked on the back button go to the previous button. | UIE,OP |
| User3, Goal 8 | Review and implement financial policies | | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Finance officer Dashboard will be loaded. | OP |
|  | event-3 | Click on the “Implement Financial Policies ” button from the menu then the display page will show where all users will be given access and everyone can give feedback.where Select Review Date, Budget Need to be increased(bool), Select case Budget need to be increased, debt management, cost Allocation etc And there will be different method including. All types of fields will be there to review feedback. | UIE |
|  | event-4 | If clicked on the “Review And Implement” button then the fields will be saved and stored. | OP,PC |
|  | event-5 | If clicked on the back button go to the previous event. | UIE,OP |

| User4: Registration and Correction Officer | | |  |
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| User4, Goal 1 |  | Can remove NID of dead citizens. | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Registration and Correction officer Dashboard will be loaded. | OP |
|  | event-3 | Click on the “Remove Nid” from the menu then the display page will show where Full Name, Nid Number, Birth Certificate Number, Death Certificate Number, Date of birth, Date of death etc all type of fields will be there to remove Nid. | UIE |
|  | event-4 | If clicked on the “Write Remove Nid And All Information Add to Array” button then the fields will be saved and stored. And clicking the “Read Remove Nid” button can see the store value of the Remove Nid all related information. | OP,PC |
|  | event-5 | If clicked on the back button go to the previous event. | UIE,OP |
| User4, Goal 2 |  | Can Update Written Information. | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Registration and Correction officer Dashboard will be loaded. | OP |
|  | event-3 | Click on the “Update Written Information” button from the menu then the display page will show where First Name, Last Name , Full Name,Nid Number, Permanent Address, Present Address, Date of Birth etc all type of fields will be there to Update Information. | UIE |
|  | event-4 | If clicked on the “Update And Write The Information” button then the fields will be saved and stored. And clicking the “Read The Update Information” button can see the stored value of the update information. | OP,PC |
|  | event-5 | If clicked on the back button go to the previous event. | UIE,OP |
| User4, Goal 3 |  | Create a Nid Registration Report. | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Registration and Correction officer Dashboard will be loaded. | OP |
|  | event-3 | Click on the “Current Nid Registration Report” button from the menu then the display page will show where the Report Generate Date, Total Nid Registration, How Many Nid Correction, correction pending etc. table chart will have all kinds of fields to create a Nid Registration Report. | UIE |
|  | event-4 | If clicked on the “Add Array To All Fields” then all values will be stored in the array.Then click the “Add To File” All values will be Write to the file. And clicking the “Read Object Stream File ” can view all store values. | OP,PC |
|  | event-5 | If clicked on the back button go to the previous event. | UIE,OP |
| User4, Goal 4 |  | Modify And Analysis Nid Registration Report. | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Registration and Correction officer Dashboard will be loaded. | OP |
|  | event-3 | If clicked The “Read Object The Report” button can see the previously created Nid Registration Report where Report Generates Date, Total Nid Registration, How Many Nid Correction, correction pending etc. all types of fields including. | UIE |
|  | event-4 | If it is necessary to Modify Nid Registration Report, then editable access will be given to each field. | OP |
|  | event-5 | Clicked on the “download pdf” button to download (“pdf” File) the financial report. | UIE,PC |
|  | event-6 | If clicked on the back button go to the previous event. | UIE,OP |
| User4, Goal 5 |  | Information Validity Check And Notification To Citizens. | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Registration and Correction officer Dashboard will be loaded. | OP |
|  | event-3 | Click on the “Validity Check” button from the menu then the display page will show where it will collect information from the citizen to approve reRegistration to the citizen after checking all types of information where Name, Nid Number , Date Of Birth, Address, Gender, validity Check (bool) etc all type of fields will be there to Validity Check And Send notification to citizen. | UIE |
|  | event-4 | If clicked on the “Notification Send to citizen” button then the fields will be saved and stored. | OP,PC |
|  | event-5 | If clicked on the back button go to the previous event. | UIE,OP |
| User4, Goal 6 |  | Approve Re-Registration. | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Registration and Correction officer Dashboard will be loaded. | OP |
|  | event-3 | Click on the “Approve re-Registration” button from the menu then display page will show where Name, Nid Number, Date Of Birth, Registration 15 years over (bool), Re-Registration Fee etc all type of fields will be there Approve Re-Registration.  If any information is invalid then the information will go to the citizen and re-registration will be approved. | UIE |
|  | event-4 | If clicked on the “Approve” button then the fields will be saved and stored. | OP,PC |
|  | event-5 | If clicked on the back button go to the previous event. | UIE,OP |
| User4, Goal 7 |  | Can Update Image. | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Registration and Correction officer Dashboard will be loaded. | OP |
|  | event-3 | Select option “Image” from the menu.And See the previous picture. | UIE |
|  | event-4 | If clicked, the “Update Image” button can update the new image from the folder.(“Jpg” “bmp”, “Png”) File. | OP,PC |
|  | event-5 | If clicked on the back button go to the previous event. | UIE,OP |
| User4, Goal 8 |  | Can Approve Retrieve Lost Nid Card. | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Registration and Correction officer Dashboard will be loaded. | OP |
|  | event-3 | Click on the “Retrieve Lost Nid Card” button from the menu then display page will show where Name, Nid Number, GD Number, Thana Number, District, Date Of GD, Date of Birth etc all type of fields will be there Approve Retrieve Lost Nid Card. | UIE |
|  | event-4 | If clicked on the “ Approve All Fields And Add to Array” button then the fields will be saved and stored. And clicking the “Read The Approving All Information” button can see the store value of the Retrieve Lost Nid Card. | OP,PC |
|  | event-5 | If clicked on the back button go to the previous event. | UIE,OP |

| User5: Distribution Officer | | |  |
| --- | --- | --- | --- |
| User5,  Goal 1 | Can prepare a NID distribution report. | | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Distribution officer Dashboard will be loaded. | OP |
|  | event-3 | Select option “Distribution report” from the menu. | UIE |
|  | event-4 | Display page will show where all the information NID distribution will be there. | OP |
|  | event-5 | When clicked on the “save” button, The report will be saved. |  |
|  | event-6 | Clicked on the “download pdf” button to download the report. |  |
|  | event-7 | If clicked on the back button go to the previous button. | UIE,OP |
| User5, Goal 2 | Can view and edit NID delivery time schedule and delivery center. | | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE, VR,DP |
|  | event-2 | If Login successful, The Distribution officer Dashboard will be loaded. | OP |
|  | event-3 | Select option “Delivery time schedule and delivery center” from the menu. | UIE |
|  | event-4 | If clicked on the Delivery schedule then the display page will show where all NID delivery centers and time management list. | UIE,OP |
|  | event-5 | If clicked on the change button, Can modify the delivery schedule. | OP |
|  | event-6 | If clicked on the back button go to the previous button. | UIE,OP |
| User5, Goal 3 | Can see and modify NID distribution list. | | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Distribution officer Dashboard will be loaded. | OP |
|  | event-3 | Select option “NID distribution list” from the menu. | UIE |
|  | event-4 | Display page will show where all distribution lists are included. | OP |
|  | event-5 | If clicked on the change button, can modify the distribution list. | UIE,PC,UID |
|  | event-6 | If clicked on the back button go to the previous button. | UIE,OP |
| User5, Goal 4 | Connecting with Supplier and can view and edit all supply related information. | | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Distribution officer Dashboard will be loaded. | OP |
|  | event-3 | Select option “Connecting with Supplier” from the menu. | UIE |
|  | event-4 | Display page will show where supply is related to all field included. | OP |
|  | event-5 | Click on the send button to exchange the information. | UIE,DP,UIE |
|  | event-6 | If clicked on the back button go to the previous button | UIE,PC |
| User5, Goal 5 | Managing the distribution team, including hiring, training, and scheduling employees. | | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Distribution officer Dashboard will be loaded. | OP |
|  | event-3 | Select option “Manage Distribution team” from the menu. | UIE |
|  | event-4 | Display page will show distribution related to all information. | OP |
|  | event-5 | Clicking on the “Data collected” button can see and edit the data of all teams. | UIE |
|  | event-6 | If clicked on the back button go to the previous button. | UIE,OP |
| User5, Goal 6 | Can connect with Supplier and field officer for emergencies or queries. | | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Distribution officer Dashboard will be loaded. | OP |
|  | event-3 | Select option “Connect with supplier and Field officer” from the menu. | UIE |
|  | event-4 | Display page can see the previous communication. | OP |
|  | event-5 | Click on the send button to exchange the information. | UIE,DP,UID |
|  | event-6 | If clicked on the back button go to the previous button | UIE,PC |
| User5, Goal 7 | Storage and safety Information | | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Distribution officer Dashboard will be loaded. | OP |
|  | event-3 | Select option “storage information and safety” from the menu. | UIE,OP |
|  | event-4 | Then a new scene will appear containing a few options such as storage facility for new arrival, check existing storage and safety information. | OP |
|  | event-5 | Select storage facility to select a warehouse for new arrival of NIDs | OP, UIE, UID |
|  | event-6 | Select check existing storage to see the current locations of warehouses. | OP,UIE |
|  | event-7 | Select safety information to see detailed information about safety management. | UIE, OP |
|  | event-8 | After executing the operations, the users can go back to the homepage. | UIE |
| User5, Goal 8 | Feedback panel | | Event Type |
| Workflow | event-1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | event-2 | If Login successful, The Distribution officer Dashboard will be loaded. | OP |
|  | event-3 | Select option “feedback panel” from the menu. | UIE,OP |
|  | event-4 | After that the user can see the feedback from the citizens and an option for sending a reply. | OP, UIE |
|  | event-5 | Click “reply” to send a reply to that citizen | UID |
|  | event-6 | After executing the operations, the users can go back to the homepage. | UIE |

| User6: Supplier | | | |
| --- | --- | --- | --- |
| User6, Goal 1 | Plastic Card Printing | | |
|  | Event 1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | Event 2 | If Login successful, The Dashboard will be loaded. | OP |
|  | Event 3 | Data Collection and Verification. | UID,VR |
|  | Event 4 | Card Personalization | VR, |
|  | Event 5 | Laminating the cards to protect them from damage | OP |
| User6, Goal 2 | Data Collection | | |
|  | Event 1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | Event 2 | If Login successful, The Dashboard will be loaded. | OP |
|  | Event 3 | Data Collection | UIE,UID |
|  | Event 4 | Enrollment and Biometric Data Capture | UIE,UID |
| User6, Goal 3 | Data Verification | | |
|  | Event 1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | Event 2 | If Login successful, The Dashboard will be loaded. | OP |
|  | Event 3 | Taking input data | UIE |
|  | Event 4 | Verification of input data | VR |
| User6, Goal 4 | Data Storing | | |
|  | Event 1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | Event 2 | If Login successful, The Dashboard will be loaded. | OP |
|  | Event 3 | Encodes the card with the individual's data | DP |
|  | Event 4 | Storing data securely in database for future reference and verification | DP, VL |
| User6, Goal 5 | Quality Assurance | | |
|  | Event 1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | Event 2 | If Login successful, The Dashboard will be loaded. | OP |
|  | Event 3 | Check information and define validation of data | VR.VL |
|  | Event 4 | Perform periodic manual checks of existing data | VL |
| User6, Goal 6 | Data Activation | | |
|  | Event 1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | Event 2 | If Login successful, The Dashboard will be loaded. | OP |
|  | Event 3 | Data Import | UIE |
|  | Event 4 | Data Integration | VR |
| User6, Goal 7 | Plastic card distribution to authority | | |
|  | Event 1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | Event 2 | If Login successful, The Dashboard will be loaded. | OP |
|  | Event 3 | Verify that the correct number of cards | VR |
|  | Event 4 | Prepare the cards for distribution to the appropriate authority | DP |
|  | Event 5 | Tracking the shipment | VR, DP |
| User6, Goal 8 | Support & Maintenance | | |
|  | Event 1 | Log-in procedure for official id will be executed. | OP,UID,UIE,VR,DP |
|  | Event 2 | If Login successful, The Dashboard will be loaded. | OP |
|  | Event 3 | Database Backup and Recovery. | VL, VR,DP |
|  | Event 4 | Database Security. | VL, VR,DP |
|  | Event 5 | Database Performance Optimization. | VL, VR,DP |

| User7 : Field Officer | | | |
| --- | --- | --- | --- |
| User 7  Goal 1 | Field Officer can verify citizen informations | | Event Type |
|  | Event-1 | Log in Process (Preliminary Event: Sign Up / Login) | Same as (Preliminary Event: Sign Up / Log in) |
|  | Event- 2 | A home page will appear. | OP |
|  | Event-3 | Users will click on the “Data Collection” button. | UIE |
|  | Event-4 | User will take input of the citizen’s information from citizens | UID |
|  | Event-5 | User will check whether the given information matches the given information during the NID Application. If it matches, User will click on the “Verified” button. Otherwise user will click on the “Information mismatched” button | OP, VR |
| User 7  Goal 2 | Field Officer can see and update previous records if the previous data need correction | | Event Type |
|  | Event-1 | Log in Process (Preliminary Event: Sign Up / Login) | Same as (Preliminary Event: Sign Up / Log in) |
|  | Event-2 | Users will click on the “View and Update Information” from the homepage. | UID, VL, VR, DP |
|  | Event-3 | User will update the text fields and click on “Update” button | OP |
| User 7  Goal 3 | Field Officer can see and update previous records if the previous data need correction | | Event Type |
|  | Event-1 | Log in Process (Preliminary Event: Sign Up / Login) | Same as (Preliminary Event: Sign Up / Log in) |
|  | Event-2 | User will click on the “Schedule” button | OP, UIE |
|  | Event-3 | User will see the schedule | DP, OP |
|  | Event-4 | Users can click on the “Edit” button. After this user will be able to edit the schedule. Then the user will click on the “Update” button. | UIE, UID |
|  | Event- 5 | User will go back to homepage | UIE |
| User 7  Goal 4 | Field Officer can generate reports on data collections | | Event Type |
|  | Event-1 | Log in Process (Preliminary Event: Sign Up / Login) | Same as (Preliminary Event: Sign Up / Log in) |
|  | Event-2 | Users will click on the “Report” Button from the homepage. | UIE |
|  | Event-3 | User will have to choose a Area from dropbox | UIE |
|  | Event-4 | User will click to the “Generate Report” and a report will be created with information like total number of voters, number of new voters this year, Number of male voters, number of female voters etc. | UIE, OP, |
| User 7  Goal 5 | Field Officer can record biometric data of a citizen | | Event Type |
|  | Event-1 | Log in Process (Preliminary Event: Sign Up / Login) | Same as (Preliminary Event: Sign Up / Log in) |
|  | Event-2 | Users will click on the “Biometric Data” Button from the homepage. | UIE |
|  | Event-3 | User will input the Citizens account number and click on the “Next” button. | UID, UIE,OP |
|  | Event-4 | User will scan a citizen's fingerprint, facial recognition, signature and input those data’s file link in a text field and click on “Submit” button | UIE, UID |
|  | Event-6 | User will go back to homepage | UIE |
| User 7  Goal 6 | Field Officer can send notification to the citizens about appointment time and place | | Event Type |
|  | Event-1 | Log in Process (Preliminary Event: Sign Up / Login) | Same as (Preliminary Event: Sign Up / Log in) |
|  | Event-2 | Users will click on the “Notify Citizens” button from the home page. | UIE |
|  | Event-3 | User will select the area and click “Send notification about time and place to the selected area’s citizens | UIE,UID,OP |
|  | Event-4 | User will go back to homepage | UIE |
| User 7  Goal 7 | Field Officer can send the verified Citizen’s list to the Registration and Correction Officer and distribution officer | | Event Type |
|  | Event-1 | Log in Process (Preliminary Event: Sign Up / Login) | Same as (Preliminary Event: Sign Up / Log in) |
|  | Event-2 | Users will click on the “Send List” button from the home page. | UIE,OP |
|  | Event-3 | User will choose the area from the dropbox | UIE,OP |
|  | Event-4 | User will click on the “Send the List of Verified Citizens” button | UIE,OP |
|  | Event-5 | User can go back to the homepage | UIE |
| User 7  Goal 8 | Field Officer can send Research and Development Department feedback and issues about the Biometric Verification Technologies | | Event Type |
|  | Event-1 | Log in Process (Preliminary Event: Sign Up / Login) | Same as (Preliminary Event: Sign Up / Log in) |
|  | Event-2 | User will click on the button “Send Feedback” from homepage | UIE |
|  | Event-3 | User will write a feedback about the Biometric Verification technology issues and click on the “Send to Research and Development Department”. It will send a feedback to the Research and Development Officer’s Profile. | UIE, UID,OP |
|  | Event-6 | User can go back to homepage | UIE |

| User8: Research and development Officer | | | |
| --- | --- | --- | --- |
| User8, Goal 1 | Designing Survey tools. | | |
| Workflow | event-1 | Log-in procedure for official id will be executed. | Same as (Preliminary Event: Sign Up / Log in),UID |
|  | event-2 | If Login successful, The Research and development officer Dashboard will be loaded. | OP |
|  | event-3 | Select the option “Design Survey Tools” from the menu. | UIE |
|  | event-4 | A new scene will appear containing 2 options (create new tool, delete a tool) | OP |
|  | event-5 | Select “create new tool” and a new scene will appear. This scene has some text fields such as give a title, a preamble that explains the overall aim of the survey, create agreeable questions so that it's easy for the respondent to answer. Automatic generation of a watermark. Then “save” the tool. | OP, UID, UIE |
|  | event-6 | Select “delete a tool” and you are authorized to delete any existing tool and a new scene will appear asking your permission to delete. | OP, UID |
|  | event-7 | After executing every operation, the user can go back to the homepage. | UIE |
| User8, Goal 2 | Planning field operations. | | |
| Workflow | event-1 | Log-in procedure for official id will be executed. | Same as (Preliminary Event: Sign Up / Log in), UID |
|  | event-2 | If Login successful, The Research and Development officer Dashboard will be loaded. | OP |
|  | event-3 | Select the option “planning field operations” from the menu. | UIE |
|  | event-4 | A few options such as work schedules, select area, select a place for giving out resources to the field workers will appear. | OP |
|  | event-5 | Select work schedules to appoint a timeline for the field workers to collect data. | UIE, UID |
|  | event-6 | Select area or location to assign the work field. | UIE, UID |
|  | event-7 | Select inventory to choose the best place for giving out the resources to the field workers. | UIE, UID |
|  | event-8 | After executing every operation, the user can go back to the homepage. | UIE |
| User8, Goal 3 | Monitor work of employees. | | |
| Workflow | event-1 | Log-in procedure for official id will be executed. | Same as (Preliminary Event: Sign Up / Log in), UID |
|  | event-2 | If Login successful, The Research and Development officer Dashboard will be loaded. | OP |
|  | event-3 | Select the option “monitor works of employee” from the menu. | UIE |
|  | event-4 | A drop down box will appear showing the employee list. | OP |
|  | event-5 | Select which employee you want to moniter. | UIE |
|  | event-6 | A new scene will appear containing 3 options (work in progress, completed work, future works) | OP |
|  | event-7 | After selecting an option a progress report will be shown to the user. | UIE, OP |
|  | event-8 | There will be an option for adding comments. | UID |
| User8, Goal 4 | Training session for members. | | |
| Workflow | event-1 | Log-in procedure for official id will be executed. | Same as (Preliminary Event: Sign Up / Log in), UID |
|  | event-2 | If Login successful, The Research and Development officer Dashboard will be loaded. | OP |
|  | event-3 | Select the option “training sessions of members” from the menu. | UIE |
|  | event-4 | A dropdown box will appear containing the members list. | OP |
|  | event-5 | Click on a member to open a new page that has 2 options ( online session and practical session). | UIE |
|  | event-6 | Select the online session then select a time and send the notice to the members.  Select the practical session then select a time and send the notice to the members. | UIE, UID |
|  | event-7 | After executing the operations, the users can go back to the homepage. | UIE |
| User8, Goal 5 | Creating and maintaining project budgets and timelines | | |
| Workflow | event-1 | Log-in procedure for official id will be executed. | Same as (Preliminary Event: Sign Up / Log in), UID |
|  | event-2 | If Login successful, The Research and Development Officer Dashboard will be loaded. | OP |
|  | event-3 | Select the option “creating and maintaining project budgets and timelines” from the menu. | UIE |
|  | event-4 | A page containing 2 options will appear. ( project in progress, new projects) | OP |
|  | event-5 | Select a project in progress to see the timeline and see the budget. | OP, UID, UIE |
|  | event-6 | Select new project to create a timeline and add a budget to that project. | UIE, OP, UID |
|  | event-7 | After executing the operations, the users can go back to the homepage. | UIE |
| User8, Goal 6 | Suggestion Board(Citizen and employee) | | |
| Workflow | event-1 | Log-in procedure for official id will be executed. | Same as (Preliminary Event: Sign Up / Log in), UID |
|  | event-2 | If Login successful, The Research and Development officer Dashboard will be loaded. | OP |
|  | event-3 | Select the option “Suggestion Board” from the menu. | UIE |
|  | event-4 | 3 options will appear such as citizen employee and field worker suggestions | OP |
|  | event-5 | Click on citizen suggestions to see the suggestions of common people. | UIE, OP |
|  | event-6 | Click on employee suggestions to see the suggestions of the employees. | UIE, OP |
|  | event-7 | Click on field worker suggestions to see the suggestions of the field workers. | UIE, OP |
|  | event-8 | After executing the operations, the users can go back to the homepage. | UIE |
| User8, Goal 7 | Create New Projects | | |
| Workflow | event-1 | Log-in procedure for official id will be executed. | Same as (Preliminary Event: Sign Up / Log in) |
|  | event-2 | If Login successful, The Research and Development officer Dashboard will be loaded. | OP |
|  | event-3 | Select the option “create New Project” from the menu. | UIE |
|  | event-4 | A new scene will appear that contains some text fields such as project title, goals, project details etc. Then click on save to add the project. | OP, UIE, UID |
| User8, Goal 8 | Create progress report | | |
| Workflow | event-1 | Log-in procedure for official id will be executed. | Same as (Preliminary Event: Sign Up / Log in), UID |
|  | event-2 | If Login successful, The Research and Development officer Dashboard will be loaded. | OP |
|  | event-3 | Select the option “create progress report” from the menu. | UIE |
|  | event-4 | A option will appear before the user such as completed projects. | OP |
|  | event-5 | Select completed projects to create a progress report of the work done. | UIE |
|  | event-6 | Click “Save” to save it. | UID, UIE |