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| NDRRMC LOGISTICS SYSTEMQuality AssuranceChecklist |
| **Purpose:** The Application Quality Assurance Checklist is intended to ensure “Custom-Built” applications adhere to development practices that promote quality solutions. It is recommended that the project team familiarize themselves with this checklist during the Design stage to ensure the developed application meets the quality standards when reviewed in the Execute stage. This deliverable should be listed as a requirement in the Transition Agreement. |

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| **Project Name** | NDRRMC Logistics System | |
| **Date Completed** | 2018-04-19 |

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| **Important Notes for Completing this Document**  Each section of the Application Quality Assurance Checklist template must be completed in full. If a particular section is not applicable to this project, then you must write **Not Applicable** and provide a reason.  **Important Note**: No sections are to be deleted from this document. This template is not to be modified in any manner. Text contained within << >> provides information on how to complete that section and can be deleted once the section has been completed. |

| 1. **Passwords**   A password helps authenticate a user when accessing a software application. Adherence to appropriate password management will help maintain the confidentiality, integrity, availability of the data maintained by the software application and reduce the risk of inappropriate access and use. | | | | |
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| ***Validation Questions*** | **Yes** | **No** | **NA** | **Comments** |
| * 1. Does the system have functionality to allow the user to revise their password and force user account expiry? |  |  |  |  |
| * 1. Does the system support protected storage of passwords with privileged user access? The system ***should not*** support passwords in clear text embedded either in the application code, automated scripts, or the database? |  |  |  |  |
| * 1. Does the system meet the standard password requirements? |  |  |  |  |
| * 1. Are the passwords in the production environment different than those in a non-production environment? |  |  |  |  |
| * 1. Are all vendor supplied default passwords revised prior to placing the application in a production environment? |  |  |  |  |
| * 1. Are passwords for privileged accounts different than passwords for non-privileged accounts? |  |  |  |  |

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| 1. **Error Handling – End User**   Error messages presented to the end user should contain only that information which will allow the user to take corrective action (e.g. “Invalid date, please reenter in YYYY-MM-DD format”). In the case of unhandled exceptions, messages should be generic. Avoid displaying system information in error messages such as server names, versions, and patch information, as well as application variables, paths, and other configuration information. Avoid messages that could potentially lead to system exploitation (e.g. “Incorrect Login” is acceptable while the message “Incorrect Password” is not).  Error handling logic should be robust enough to gracefully and meaningfully handle all errors which could be reasonably expected to occur from user interactions with the system. The text for error messages should be contained in a single location within the application code or database to facilitate quick additions and modifications by support staff. | | | | |
| ***Validation Questions*** | **Yes** | **No** | **NA** | **Comments** |
| * 1. Does the application handle all the errors that could reasonably be expected to occur? |  |  |  |  |
| * 1. Do the error messages contain minimal but meaningful information? |  |  |  |  |
| * 1. Does the application avoid displaying system information in error messages? |  |  |  |  |
| * 1. Are the error messages kept in a single location? |  |  |  |  |

| ***Validation Questions*** | **Yes** | **No** | **NA** | **Comments** |
| --- | --- | --- | --- | --- |
| * 1. Are all errors for the application being logged? |  |  |  |  |
| * 1. Is logging being done on each server tier? |  |  |  |  |
| * 1. Are the logs kept in a single location / directory / database? |  |  |  |  |
| * 1. Are the logged errors specific enough to assist support personnel in troubleshooting production problems? |  |  |  |  |
| * 1. Is the code that logs the error messages written in a modular way? |  |  |  |  |
| * 1. Are the log files free of personally sensitive or identifiable information? |  |  |  |  |

| 1. **Field Validations**   Where possible, validations should be performed on both the presentation layer and the business layer. In Java, for example, validations may be done using JavaScript within JSP pages (presentation layer), but should also be done within Java classes on the business layer. Also, validations should be performed in such a way that they cannot be bypassed by end-users (e.g. by disabling JavaScript). Field lengths and types within an application should be consistent with the column lengths and types declared within the underlying database tables. | | | | |
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| ***Validation Questions*** | **Yes** | **No** | **NA** | **Comments** |
| * 1. Are fields being checked for the correct type (e.g. date, integer, etc.) and the correct range of values (e.g. 1 – 12 for month)? |  |  |  |  |
| * 1. Are field values being validated with regular expressions where possible (e.g. validating email addresses and dates for valid formats)? |  |  |  |  |
| * 1. Do the validations resulting in error messages prevent data from being written to persistent storage (databases, files, etc.)? |  |  |  |  |
| * 1. Are the validations being performed within the business logic, as well as on the presentation layer? |  |  |  |  |
| * 1. Have the validations been written so that users cannot bypass them? |  |  |  |  |
| * 1. Are all of the field lengths and types within the application consistent with the column lengths and types declared within the underlying database tables? |  |  |  |  |
| * 1. Are user inputs being sanitized (without exceptions) according to OWASP recommendations? |  |  |  |  |

| 1. **Dates**   When testing functionality that is built around date checks, the testers should use date values that occur in the past, on the target date, and in the future. Dates should also be validated in the context of the established business rules of the application (e.g. given a person’s birth date, is he/she eligible to vote?). When dates are recorded in a database or log, they should include a timestamp and not just the month, day, and year. Timestamps will not be required in specific situations (such as a birth date field) where a timestamp does not make sense. | | | | |
| --- | --- | --- | --- | --- |
| ***Validation Questions*** | **Yes** | **No** | **NA** | **Comments** |
| * 1. Does the application validate dates in a way that is consistent with the system design specifications and business rules? |  |  |  |  |
| * 1. Do all relevant dates include a timestamp? |  |  |  |  |
| * 1. Does the date requested field show the correct timestamp when it was actually requested? |  |  |  |  |
| * 1. Do the date fields show an error when the field is left blank? |  |  |  |  |

| 1. **Reportico**   Reportico Yii2 Module allows the users to design reports which can be embedded or linked within your Yii2 website all accessed through a dedicated controller.  The Yii2 Reportico allows to   * Embed Reports into the web page, embed a complete report suite with menu, individual reports with criteria selection or individual report output * Create report projects against the default yii2 connection or against other databases defined in app/config/database.php | | | | |
| --- | --- | --- | --- | --- |
| ***Validation Questions*** | **Yes** | **No** | **NA** | **Comments** |
| * 1. Is the module properly installed to the system? |  |  |  |  |
| * 1. Does it produce the same data from the system? |  |  |  |  |

| 1. **Google Map API**   Google MAP API provides global coverage with reliable location information | | | |
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| ***Validation Questions*** | **Yes** | **No** | **Comments** |
| * 1. Are the locations indicated in the Map correctly placed? |  |  |  |
| * 1. Is the map rendered? |  |  |  |
| * 1. Are the icons (warehouse, evacuation center, etc) correctly placed? |  |  |  |
| * 1. Can the map display the satellite view? |  |  |  |
| * 1. Does the icon provide its location? |  |  |  |
| * 1. Does Google Map API loads once the user opened the home page? |  |  |  |

| 1. **User Management Module**   In this module, the user can use the CRUD operations that alters the **User** Table in the Database; where the list of information gathered from each user is stored. | | | | |
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| ***Validation Questions*** | **Yes** | **No** | **NA** | **Comments** |
| * 1. Are the *National Admin* users displayed correctly? |  |  |  |  |
| * 1. Are the *Regional Admin* users displayed correctly? |  |  |  |  |
| * 1. Are the *City/Municipal Admi*n users displayed correctly? |  |  |  |  |
| * 1. Does the *Update* function properly change the values in the database? |  |  |  |  |
| * 1. Does the *View* function properly display the values in the database? |  |  |  |  |
| * 1. Does the *Delete* function properly remove the value in the database? |  |  |  |  |
| * 1. Does the sorting function per field work correctly? |  |  |  |  |
| * 1. Does the search function work properly? |  |  |  |  |
| * 1. Do the fields in the sign-up page show an error when a required field is left blank? |  |  |  |  |

| 1. **Supply Management Module**   In this module, the user can use the CRUD (Create, Read, Update, and Delete) operations that alters the **Supply** Table in the Database; where the list of information gathered from each supply is stored. | | | | |
| --- | --- | --- | --- | --- |
| ***Validation Questions*** | **Yes** | **No** | **NA** | **Comments** |
| * 1. Are the items under the *Food* category displayed correctly? |  |  |  |  |
| * 1. Are the items under the *Health* category displayed correctly? |  |  |  |  |
| * 1. Are the items under the *Shelter* category displayed correctly? |  |  |  |  |
| * 1. Are the items under the *Medical Equipment* category displayed correctly? |  |  |  |  |
| * 1. Are the items under the *Houseware Supplies* category displayed correctly? |  |  |  |  |
| * 1. Are the items under the *Clothing* category displayed correctly? |  |  |  |  |
| * 1. Are the items under the *Personal Hygiene* category displayed correctly? |  |  |  |  |
| * 1. Does *Create* function input the correct data into the database? |  |  |  |  |
| * 1. Does the *View* function correctly display the data coming from the database? |  |  |  |  |
| * 1. Search Function is working? |  |  |  |  |

| 1. **Request Management Module**   In this module, the user can use the CRUD (Create, Read, Update, and Delete) operations that alters the **Request** Table in the Database; where the list of information gathered from each request is stored. | | | | |
| --- | --- | --- | --- | --- |
| ***Validation Questions*** | **Yes** | **No** | **NA** | **Comments** |
| * 1. Does the request successfully change status (from “*Pending*” to “*Confirmed*”) after being confirmed? |  |  |  |  |
| * 1. Does the request successfully change status (from “*Confirmed*” to “*In Transit*”) after being sent? |  |  |  |  |
| * 1. Does the request successfully change status (from “*In Transit*” to “*Arrived*”) after being received? |  |  |  |  |
| * 1. Are the *Pending* items displayed correctly (by respective status)? |  |  |  |  |
| * 1. Are the *Confirmed* items displayed correctly (by respective status)? |  |  |  |  |
| * 1. Are the *In Transit* items displayed correctly (by respective status)? |  |  |  |  |
| * 1. Are the *Arrived* items displayed correctly (by respective status)? |  |  |  |  |
| * 1. Does the *View* function properly list all the database fields properly? |  |  |  |  |
| * 1. Does the *Update* function properly change the values in the database? |  |  |  |  |
| * 1. Does the *Delete* function properly remove the item from the database? |  |  |  |  |
| * 1. Does the Date Requested field show the correct timestamp when it was actually requested? |  |  |  |  |
| * 1. Does the Date Needed field show an error message when the field is left blank? |  |  |  |  |
| * 1. Does the Recipient dropdown show users coming from the User database? |  |  |  |  |
| * 1. Does the Vehicle ID field show an error when the input is not an integer? |  |  |  |  |
| * 1. Is the Requestor field automatically generated and equal to the ID of the user requesting the |  |  |  |  |
| * 1. Will the Vehicle ID field show an error when trying to input a non-existent Vehicle ID from the database? |  |  |  |  |
| * 1. Display Dropdown Resource ID field? |  |  |  |  |
| * 1. Display Calendar for Date needed field? |  |  |  |  |
| * 1. Display Date Requested Field? |  |  |  |  |
| * 1. Display Reason Field? |  |  |  |  |
| * 1. Display Quantity needed Field? |  |  |  |  |
| * 1. Display Priority Field? |  |  |  |  |
| * 1. Display Dropdown Recipient Field? |  |  |  |  |
| * 1. Display Beneficiary Field? |  |  |  |  |
| * 1. Display Dropdown Status Field? |  |  |  |  |
| * 1. Display Requestor Field? |  |  |  |  |
| * 1. Display Dropdown Vehicle ID Field? |  |  |  |  |
| * 1. Search Function is working? |  |  |  |  |

| 1. **Records Management Module**   In this module, the user can use the CRUD (Create, Read, Update, and Delete) operations that alters the **ALL** Tables in the Database. | | | | |
| --- | --- | --- | --- | --- |
| ***Validation Questions*** | **Yes** | **No** | **NA** | **Comments** |
| * 1. Does the *Volunteer* record view display the correct data coming from the database? |  |  |  |  |
| * 1. Does the *Supplier* record view display the correct data coming from the database? |  |  |  |  |
| * 1. Does the *Disaster Site* record view display the correct data coming from the database? |  |  |  |  |
| * 1. Does the *Disaster Site* record view display the correct data coming from the database? |  |  |  |  |
| * 1. Does the *Affected Area/Population* record view display the correct data coming from the database? |  |  |  |  |
| * 1. Does the *Barangay* record view display the correct data coming from the database? |  |  |  |  |
| * 1. Does the *City/Municipal* record view display the correct data coming from the database? |  |  |  |  |
| * 1. Does the *Province* record view display the correct data coming from the database? |  |  |  |  |
| * 1. Does the *Region* record view display the correct data coming from the database? |  |  |  |  |
| * 1. Does the City Municipal dropdown in the sign-up page show the same list of City Municipal in the City Municipal Table? |  |  |  |  |

| 1. **Resource Management Module** | | | | |
| --- | --- | --- | --- | --- |
| ***Validation Questions*** | **Yes** | **No** | **NA** | **Comments** |
| * 1. Do the required fields show an error when left blank? |  |  |  |  |
| * 1. Does the Supplier ID dropdown show entries from the Supplier Table in the database? |  |  |  |  |
| * 1. Does the Vehicle ID dropdown show entries from the Vehicle ID table in the database? |  |  |  |  |
| * 1. If a resource entry is deleted, is it also deleted from the database? |  |  |  |  |
| * 1. If an entry is edited, will the changes be committed? |  |  |  |  |
| * 1. Display Name Field? |  |  |  |  |
| * 1. Display Dropdown Resource type Field? |  |  |  |  |
| * 1. Display Quantity Field? |  |  |  |  |
| * 1. Display Calendar for Date Delivered Field? |  |  |  |  |
| * 1. Display Calendar for Date Received Field? |  |  |  |  |
| * 1. Display Details Field? |  |  |  |  |
| * 1. Display Calendar for Expiration Date Field? |  |  |  |  |
| * 1. Display Dropdown Supply Category Field? |  |  |  |  |
| * 1. Display Dropdown Supplier ID Field? |  |  |  |  |
| * 1. Display Dropdown Location ID Field? |  |  |  |  |

| 1. **Supplier Management Module** | | | | |
| --- | --- | --- | --- | --- |
| ***Validation Questions*** | **Yes** | **No** | **NA** | **Comments** |
| * 1. Does the ID field show an error when a non-integer or character is entered in the field? |  |  |  |  |
| * 1. Does the Region ID dropdown show entries from the Region ID in the Database? |  |  |  |  |
| * 1. Does the City Municipal ID dropdown show entries from the City Municipal ID in the Database? |  |  |  |  |
| * 1. Does the Barangay ID dropdown show entries from the Barangay ID in the Database? |  |  |  |  |
| * 1. If a Supplier is deleted, is it also deleted from the Database? |  |  |  |  |
| * 1. If a Supplier entry is edited, does it commit the changes to the Database? |  |  |  |  |
| * 1. Display ID Field? |  |  |  |  |
| * 1. Display Name Field? |  |  |  |  |
| * 1. Display Contact Field? |  |  |  |  |
| * 1. Display Email Field? |  |  |  |  |
| * 1. Display Contact Person Field? |  |  |  |  |
| * 1. Display Website Field? |  |  |  |  |
| * 1. Display Dropdown Region ID Field? |  |  |  |  |
| * 1. Display Dropdown City Municipal ID Field? |  |  |  |  |
| * 1. Display Dropdown Barangay ID Field? |  |  |  |  |
| * 1. Search Function is working? |  |  |  |  |

| 1. **Location Management Module** | | | | |
| --- | --- | --- | --- | --- |
| ***Validation Questions*** | **Yes** | **No** | **NA** | **Comments** |
| * 1. Does the Sorting function properly sort the entries depending on the field? |  |  |  |  |
| * 1. When a Location entry is deleted, does it also delete from the Database? |  |  |  |  |
| * 1. When a Location entry is edited, does it commit the changes to the Database? |  |  |  |  |
| * 1. Does an error message show when a field in the sign up page is left blank? |  |  |  |  |
| * 1. Does the Region ID dropdown show entries from the Region ID field in the Database? |  |  |  |  |
| * 1. Does the City Municipal ID dropdown show entries from the City Municipal ID field in the Database? |  |  |  |  |
| * 1. Does the Barangay ID dropdown show entries from the Barangay ID field in the Database? |  |  |  |  |
| * 1. Display Name Field? |  |  |  |  |
| * 1. Display Contact Field? |  |  |  |  |
| * 1. Display Email Field? |  |  |  |  |
| * 1. Display Dropdown Type Field? |  |  |  |  |
| * 1. Display Capacity Field? |  |  |  |  |
| * 1. Display Status Field? |  |  |  |  |
| * 1. Display Dropdown Region ID Field? |  |  |  |  |
| * 1. Display Dropdown City Municipal ID Field? |  |  |  |  |
| * 1. Display Dropdown Barangay ID Field? |  |  |  |  |
| * 1. Search Function is working? |  |  |  |  |

| 1. **Vehicle Management Module** | | | | |
| --- | --- | --- | --- | --- |
| ***Validation Questions*** | **Yes** | **No** | **NA** | **Comments** |
| * 1. Display Name field? |  |  |  |  |
| * 1. Display Plate Number Field? |  |  |  |  |
| * 1. Display Dropdown Type field? |  |  |  |  |
| * 1. Display Dropdown Type Star field? |  |  |  |  |
| * 1. Display Dropdown Classification field? |  |  |  |  |
| * 1. Display Dropdown Status field? |  |  |  |  |
| * 1. Display Dropdown Region ID field? |  |  |  |  |
| * 1. Display Dropdown City Municipal ID field? |  |  |  |  |
| * 1. Display Dropdown Barangay ID field? |  |  |  |  |
| * 1. Does the Region ID dropdown show entries from the Region ID field in the Database? |  |  |  |  |
| * 1. Does the City Municipal ID dropdown show entries from the City Municipal ID field in the Database? |  |  |  |  |
| * 1. Does the Barangay ID dropdown show entries from the Barangay ID field in the Database? |  |  |  |  |
| * 1. Does an error message show when a field in the Create Vehicle page is left blank? |  |  |  |  |
| * 1. Does the Sorting function properly sort the entries depending on the field? |  |  |  |  |
| * 1. When a Vehicle entry is deleted, does it also delete from the Database? |  |  |  |  |
| * 1. When a Vehicle entry is edited, does it commit the changes to the Database? |  |  |  |  |
| * 1. Search Function is working? |  |  |  |  |