# AngSalitaNgDiyos.com

# Liturgical Site

Software Quality Assurance Plan

In Partial Fulfillment of the Requirements

in Software Quality Assurance

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IT - 111

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1. **Software Project Management Plan**

This Software Quality Assurance Plan document, was developed specifically for the project *AngSalitaNgDiyos.com Liturgical Site.* During the project’s *Planning stage,* the proponents arrived with the following description of the ventures at hand. The purpose of this representation is to *accurately reflect* the project’s *scope* and *structure.* The following will assess the planned activities to be fulfilled throughout the cycles of the project.

1. **Project Structure**

The following sections of the *Project Management Plan* will be discussed in length in the succeeding segments:

* Vision and Scope
* Feasibility and Risk Analysis
* Management Approach
* Technical Approach

In the event of *end user reviews*, these first two chapters will initially be recommended for the reviewer’s benefit.

1. **Project Content**
   1. **Vision and Scope**

The succeeding sections describes the conditions driving the development of the calendar tool. This section introduces the application as intended and describes the scope and limitations of the development effort.

* + 1. **Vision**

In the advent of the technology age, more and more industries are beginning to grasp the benefits of having an *online presence.* This is why even the *religious* sector of our country aims to enhance their capability of *catering* the needs of their intended spiritual audience, online.

*AngSalitaNgDiyos.com*, is an online Catholic Liturgical site that accommodates the online audience and their needs, spiritually and information - wise.

In line with this, the proponents of this project have tasked the IT – 111 students to create a calendar structure that can display the *Lectionary Cycles* and *Liturgical Feasts* within a certain year. It is known that every year, the *liturgical* calendar changes in line with certain technicalities defined by Lectionary Cycles (3 cycles for Sunday Lectures, 2 cycles for Weekday Lectures). The proposed calendar structure will identify specifically when these dates will be and arrange them accordingly.

The primary goal of the *Liturgical Site’*s calendar structure is to provide an informative, detailed and accurate representation of all the lectionary cycles and religious feasts within a specific year. This will designate the said dates and represent them in an online version of the Calendar.

* + 1. **Scope**

The project aims to provide a tool that helps online users to identify the designated dates of *religious lections and feasts* within a specified year.

* Create a database that includes all the *religious events* (e.g. Solemnities or Feasts, Events, Seasons of Lent, Advent and Easter, etc.) within the year
* Create a tool that utilizes the created database to insert the specified *events* in line with specific requirements that are specified by the Catholic church
* Create a tool that allows the editing and checking of the readings of the said database for the benefit of the client
* Provide a calendar (that uses the database and the tool’s synergy) to display links to the necessary *pages* and/or *audio* files, representing lections and mass readings for each date
* Encourage the online community to visit the *AngSalitaNgDiyos.com* site for informative and spiritual purposes

The functions of the system include the following:

* The main target market of this tool will mainly be defined as *users*. These users are those who access the calendar via the site, *AngSalitaNgDiyos.com*
* The calendar tool will automatically display the dates within the month that it is being accessed
* The calendar will display 6 types of *events*: (1) **Sunday readings**, (2) **Weekday readings**, (3) **Moveable feasts**, (4) **Solemnities**,(5) **Memorials** and (6) **Special Feasts**
* Each type of item has its own definite *business requirement*
  + **Sunday readings** have 3 yearly cycles: Year A, Year B and Year C. Each cycle has a designated set of Sunday readings which are variably different from each cycle. Year determinant is the remainder of the sum of all the digits within the year, divided by 3. The succeeding table illustrates the determinant.

|  |  |
| --- | --- |
| Remainder | Year |
| 0 | Year A |
| 1 | Year B |
| 2 | Year C |

Table 1.1 **Determinant of year cycle for Sunday readings**

Example -For the Year 2013:

**Sum of all digits in the year**

= 2+0+1+3= 6  
**Remainder of sum divided by 3**

= 6 / 3 = 2 remainder 0Remainder is 0.Therefore 2013 is considered within the Year A cycle.

* + For **Weekday readings,** there are two sets of readings. Year 1 &Year 2. The succeeding table describes the determinant.

|  |  |
| --- | --- |
| Year Type | Year |
| Odd | Year 1 |
| Even | Year 2 |

Table 1.2 **Determinant of year cycle for Weekday readings**

Example:

Year 2013 is an odd year. Therefore, it is within the Year 1 cycle.

* + In the case of **Movable feasts,** the dates are set based on other movable feasts / solemnities within the year. (Some examples include *Easter Sunday, Palm Sunday* and *Pentecost Sunday*)
  + For **Solemnities** and **Memorials,** they have their own set of readings, which replace Sunday and/or weekday readings excepts for specific Sundays (i.e. Sundays in Advent, Lent and weekdays of Holy Week / Easter Octave).Solemnities and memorials are big – time feasts. (e.g. *Presentation of the Lord,* and *Annunciation of the Lord*)
  + For **Special Feasts,** these dates are static and are not day – sensitive.
* Event items such as *Movable feasts, Solemnities* and *Memorials* will be displayed as text, which will serve as markers for the specific events they represent
* These items that will be displayed in the calendar, will be in the form of *items / events* that will be rendered with linksthat will redirect to specific *pages* / *audio files*

The tool is envisioned to possess the following of the application framework:

* Web – version
  + Tool for Client (System in yii)
  + Calendar for Display (Calendar visible for priests)

The timeframe for the system development process is ten weeks; for the finished product, the scheduled system evaluation is March 30, 2015.

* 1. **Feasibility and Risk Analysis**
     1. **Feasibility Standards**

This sectionaddresses the issuesof *application complexity* as well as the anticipated *risks* in *schedule* and *operation* procedures*.* The following factors have been defined in order to verify the project’s feasibility. The table below illustrates these points and the team’s proposition for the development and quality assurance stages of the project.

|  |  |  |
| --- | --- | --- |
| Standard | Risks / Issues | Proposition |
| Application Complexity | * The various requirements included in the calendar warrants well – defined conditions and proper synergy between the database and the tool. * The integration of the tool to the site itself should also be considered of vital importance | * Proper standards in code development must first be defined, upon establishment of these defined standards, following it is key * The usage of the tools provided by our *adviser*, and a proper understanding of the MVC Framework is essential * Development procedures must be in line with the professional opinions of our *mentors* and *adviser* * For System Integration, it must be done in line with the system |
| Schedule Constraints | * The allotted timeframe for the project development and quality assurance phase is a maximum of 10 weeks. | * Development – wise, the tool’s functions must be assessed if the 10–week development process can accommodate the necessary changes and coding efforts by the team * In the Quality Assurance phase, the tool should be assessed by certain metrics and success factors to be defined in the latter part of this section * A schedule for both *SOFTDEV* and *QUALITY* has been given, and for the success of the development and testing phases, the team’s processes must be in line with this defined schedule |
| Client, User and Organizational Risks | * The risk of obtaining an error in logic in one year will mean an inheritance of the succeeding years’ errors * The risk of having to engage in maintenance and support for the application, after development | * Proper development of the product must be implemented. The client must verify the correctness of the data in the database of the proposed system, before the implementation phase * Plans for maintenance and support must be in place, even after implementation. This plan must be proposed to the client, along with the system |
| Operational Feasibility | * Risk of web - hosting and storing massive amounts of data in the database * Risk of user apathy and unresponsiveness from the target market | * Hosting the site, with large amounts of data may be mitigated by specifying early on with the client, the expected and the actual size of the data to be stored and used for the project * Through proper dissemination in local churches, and on the web – users may be properly oriented with the goal of the tool and the site itself |

Table 1.3 **Feasibility Standards**

* + 1. **Quality Metrics**

The project may be deemed as successful if the following short – term metrics are satisfied:

* Continuity of development phase – consistent delivery of individually required features during each iteration / cycles, by meeting the scheduled evaluation of March 31, 2015
* Explicit affirmation from client – confirmation of met requirements / expectations by the users
* Convenience, Speed and Reliability – if the proposed tool was able to affect the users positively; if the users find the tool informative, and if the users feedback about the tool’s response includes it being *rapid*, *reliable* and *accurate*
  + 1. **Success Factors**

The tool’s implementation can be considered successful if it meets the following criteria:

* Assurance that the system conforms to the mentioned business requirements and client standards; receiving a passing rate in the Quality Assurance Testing Phase
* Successful integration to the implemented site, which must yield improvement in the user experience
* A positive response by the spiritual audience online; either by their valued response or by their patronization of the system / high utilization
  1. **Management Approach**
     1. **Development**

The development process to be used is the *Agile Methodology.* There will be intensive development, and succeeding iterations (0, 1, and 2). Each iteration involves functional integration and detailed change requests, adjustments and tracking – in accordance to client decisions. Bugs and issues may be found during each iteration, when quality assurance testing is done, fixing these bugs will be prioritized after each iteration.

  
Image 1.1 **Agile Methodology, source:** [**Code2u.net**](http://www.code2u.net/)

* + 1. **Communication**

Meetings will be done at least thrice a week. Updates, for daily scrum and weekly status reports are located in the [repository](https://code.google.com/p/apc-softdev-it111-05/w/list). For each iteration, the team will consider each sets of 3 weeks as a sprint. There will be 3 sprints in this term. The sprints will be aligned with each iteration that has been scheduled by the team’s *SOFTDEV* adviser.

  
Image 1.2 **Sprint, source:** [**Kaeru.se**](http://www.kaeru.se/scrum.png)

* + 1. **Quality Assurance**

From the above-mentioned methodology, the Quality Assurance Testing Phase will be following the same process of *Developing, Base-lining, and Testing*.

The processes of which were mentioned above happens each iteration / sprint. The steps inside each phase, involve the following:

* Research and Analysis
* Prototyping and Designing
* Testing and Planning

Various static tests and dynamic tests have been duly scheduled in line with the iterations. Naturally, the static testing schedules have been given priority over the succeeding dynamic tests.

The following image illustrates the proponents’ intended QAT Phase of the Project (which involves Testing, Quality Control and Quality Assurance):



Image 1.3 **Testing, Quality Control and Quality Assurance,  
 source:** [**SystemsAppsControls.com**](http://systemsappscontrols.com/images/diagram.png)

* + 1. **Roles and Responsibilities**

The following responsibilities have been designated for each team member to ensure the project’s success. The table below illustrates the individual roles of each member.

|  |  |  |
| --- | --- | --- |
| Name | Roles | Responsibilities |
| Joshua C. Dimapilis | Project Manager / Developer | * Overseeing of the Project Status and Progression * Management and leadership of the Project team * Planning and Evaluation of Development and Quality Assurance |
| Kimberly Mae B. Elizondo | Quality Assurance Tester / Developer | * Quality Assurance Consulting * Monitoring of schedule, iterations and sprints * Business Requirements Analysis |
| Trixia Marie A. Urquiza | Quality Assurance Tester / Developer | * Database Design and Management Consulting * Approval of Change Requests and adjustments * Management of   documentation and scrum |

Table 1.4 **Teams’ Roles and Responsibilities**

* 1. **Technical Approach**
     1. **Technologies for Development**

The following tools are to be used for development:

|  |  |
| --- | --- |
| Generic Tools | Specific Tools |
| Programming Languages | PHP, HTML5, CSS3 |
| Database Server | MySQL |
| Web Server | Apache Server |
| Framework, Extensions | Yii 2.0, fullcalendar.io |
| Coding Tools | Yii PHP Framework, Sublime Text, fullcalendar.io |
| Documentation Tools | Microsoft Office, Microsoft PowerPoint, MySQL Workbench |
| Calendar | [Fullcalendar.io](http://fullcalendar.io) |
| Repository | [*code.google*](https://code.google.com/p/apc-softdev-it111-05/) *,* Github |

Table 1.5 **Tools Used for the Project**

* + 1. **Use Cases**

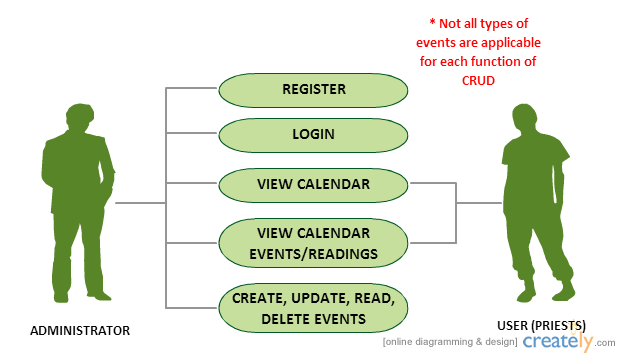
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Image 1.4 **Use Case Diagram**

1. **Requirements Document**

*The Requirements class of deliverables are produced during the Requirements stage and updated if necessary during the Design, Development, and Integration & Test stages. The purpose of the Requirements class is to accurately define the scope, structure, and high-level functionality of the database application under design.*

1. **Requirements Structure**

The Requirements class of deliverables is composed of three related documents:

• The Logical Database Description

• The Requirements Document

• The Requirements Traceability Matrix

1. **Requirements Content**

* 1. **Logical Database Description (LDD)**

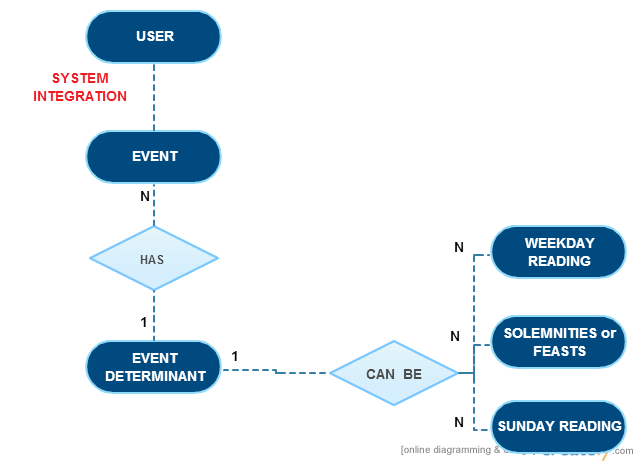


Image 1.5 **Logical Database Description**

**Entity:** **USER**

**Description:**

A **user** is a person who uses the system and access the calendar.

**Relationship:**

A user with an admin role can create, read, update and delete calendar events.

A user with a member role can view calendar events.

**Actor Interaction:**

|  |  |
| --- | --- |
| ROLE | ACTOR |
| Create | - |
| Read | Admin |
| Update | - |
| Delete | - |

**Entity: EVENT**

**Description:**

An **event** is an occurrence that warrants a presence in the calendar. Events are relatively of great importance, and are based on the business requirements provided by the client. The event table has four *lookup* tables: Movable Feasts, Special Feasts, Memorials and Solemnities.

**Relationship:**

An event can either be classified as a movable feast, special feast, memorial, or solemnity.

Several or zero events can occur in a single day.

**Actor Interaction:**

|  |  |
| --- | --- |
| ROLE | ACTOR |
| Create | - |
| Read | Admin |
| Update | Admin |
| Delete | - |

**Entity:** **EVENT DETERMINANT**

**Description:**

An **event determinant** determines all the moveable feasts such as Easter Sunday, Pentecost Sunday, Ash Wednesday and etc.

**Relationship:**

An event determinant can determine many moveable feasts.

**Actor Interaction:**

|  |  |
| --- | --- |
| ROLE | ACTOR |
| Create | Admin |
| Read | Admin |
| Update | Admin |
| Delete | Admin |

**Entity: WEEKDAY READING**

**Description:**

A **weekday reading** refers to a reading that is used by lecturers and priests during weekdays.

**Relationship:**

Each weekday should have one weekday reading.

**Actor Interaction:**

|  |  |
| --- | --- |
| ROLE | ACTOR |
| Create | - |
| Read | Admin |
| Update | Admin |
| Delete | - |

**Entity: SUNDAY READING**

**Description:**

A **Sunday reading** refers to a reading that is only used during Sundays.

**Relationship:**

Each Sunday should have one Sunday reading.

**Actor Interaction:**

|  |  |
| --- | --- |
| ROLE | ACTOR |
| Create | - |
| Read | Admin |
| Update | Admin |
| Delete | - |

* 1. **Software Requirements Document (SRD)**

The following information provides an overview of the system requirements gathered through a collaboration with the project’s client.

* **System Requirements**

The system must:

* + - 1. Provide a user-friendly interface for easier navigation
      2. Provide a login page so that ***registered users*** can access the site
      3. Contain a calendar filled with generated readings
      4. Allow ***registered users*** (***admin or member role***) to view the calendar and calendar events
      5. Not allow ***unregistered users*** to view the calendar and calendar events
      6. Filter the calendar if specific month is chosen by the user (***admin or member roles***)
      7. Allow some CRUD functions to be performed but not on all types of event
* **User Requirements**

A registered user (***admin or member role***):

1. Must have a username and a password to access the website
2. Must access the website using the login page provided by the system
3. Can view the calendar in a ***monthly basis***
4. Can navigate through the different months of the calendar
5. Can read the contents of the calendar
6. Can click website links
7. Can click buttons or tabs within the page
   1. **Requirements Traceability Matrix (RTM)**

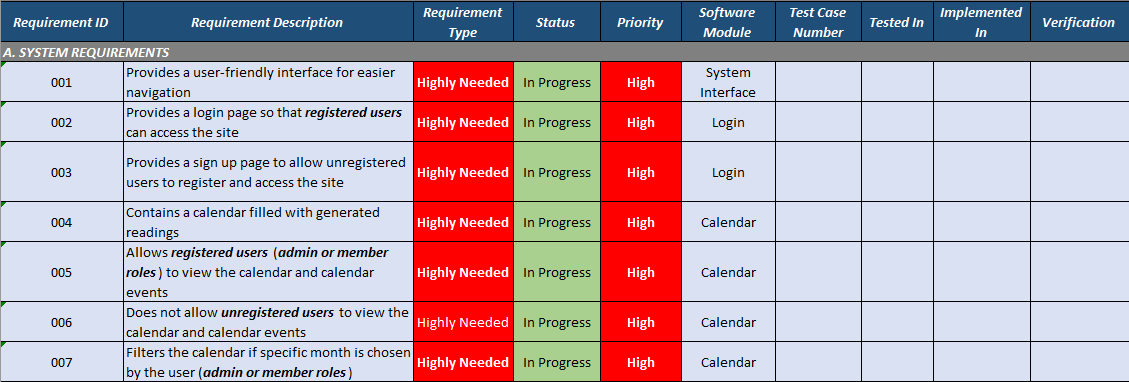
The following Requirements Traceability Matrix is derived from the software requirements document indicated above.

Image 1.6.1 **Requirements Traceability Matrix Part 1**

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Image 1.6.2 **Requirements Traceability Matrix Part 2**

1. **Design Document**

The Design class of deliverables are produced during the Design stage and updated if necessary during the Development and Integration & Test stages. The purpose of the Design class is to accurately define the scope, structure, and high-level functionality of the database application under design.

1. **Design Structure**

The Design class of deliverables is composed of three related documents:

• The Physical Database Description

• The Software Design Document

• The Requirements Traceability Report

1. **Design Content**
   1. **Physical Database Description (PDD)**

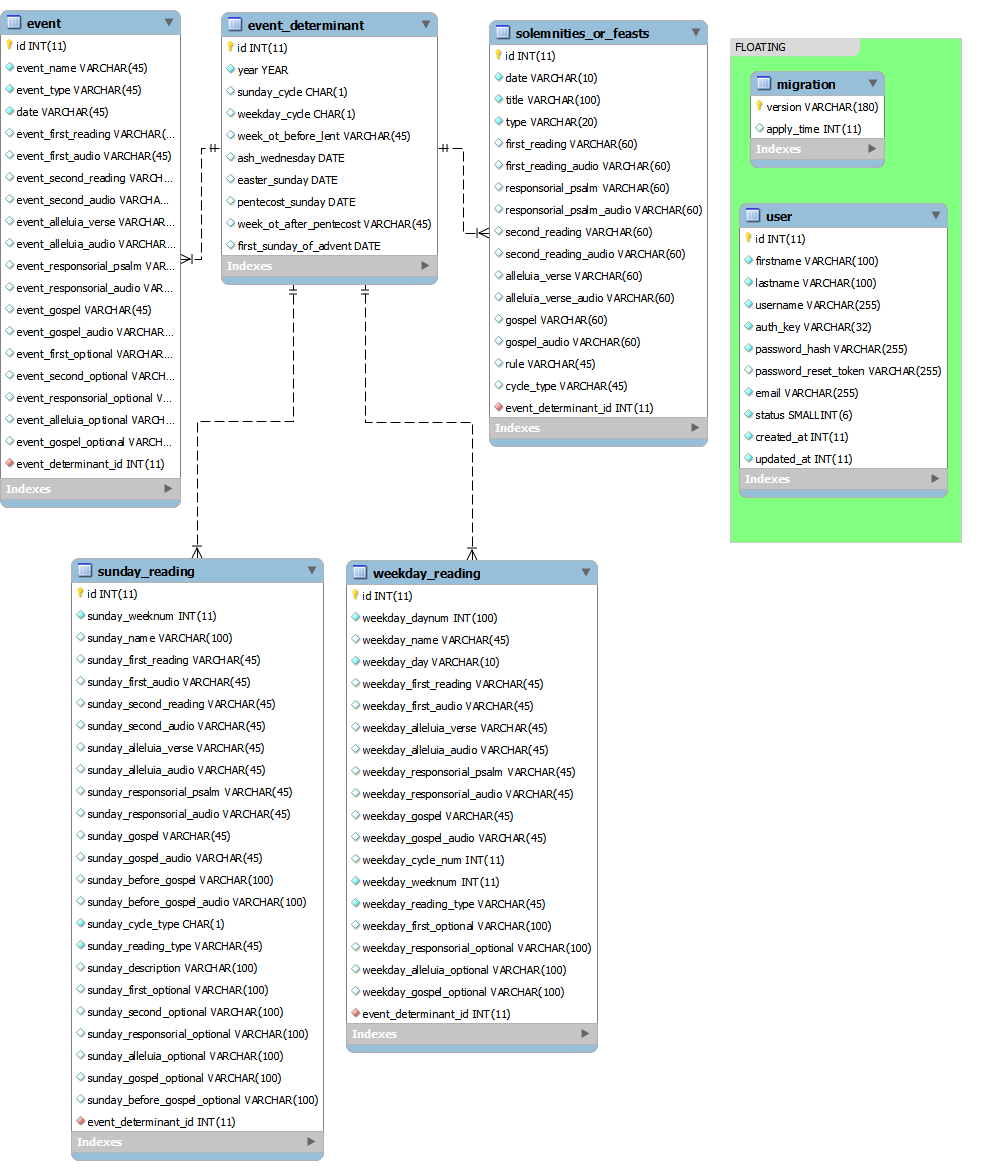
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Image 1.7 **Entity Relationship Diagram**

The physical database description defines the basic structure of the application at a conceptual level. The PDD focuses on providing a detailed description of the database structure to be implemented for the application.

The PDD consists of an introduction, an Entity Relationship Diagram (ERD) and a series of table and field descriptions that define the relationships between the entities, field characteristics, and business rules.

The PDD is included by reference in the Design Document.

* 1. ****Software Design Document (SDD)**

Image 1.8.1 **Swim Lane Diagrams**

**

Image 1.8.2 **Swim Lane Diagrams**

* 1. **Requirements Traceability Matrix (RTM)**

The RTM makes use of the analysis listings in the SDD and its parent SRD. The purpose of the RTM is to show that each design element is related to a specific requirement in the SRD, that all goals in the project plan have at least one associated requirement, and that no requirements in the SRD are related to non-existent goals.

1. **Online Help**

* **Help Structure**

The structure of the Online Help section are composed of the following documents:

* Data Areas
* Optional Scenarios
* Frequently Asked Questions
* Data Dictionary
* **Data Areas**

The following areas are to be considered as vital information in deriving business requirements for the application. Therefore, data from the succeeding sections are to be mapped in accordance to the following information:

* + **Lectionary Cycles**
    1. **Sunday Readings**

The Sunday Readings contain the *First Reading,* the *Second Reading,* the *Alleluia Verse,* the *Responsorial Psalm,* and the *Sunday Gospel* designated for that specific Sunday. Sunday Readings in **Ordinary Time** possess these complete details. Other Sundays however, may lack some of the mentioned attributes.

* + 1. **Weekday Readings**

For the Weekday Readings, they contain the *First Reading,* the *Alleluia Verse,* the *Responsorial Psalm,* and the *Sunday Gospel* designated for that specific Weekday. Weekday Readings in **Ordinary Time** possess these complete details. The significant difference of the Weekday readings in OT, with the Sunday readings in OT, is that there is no *Second Reading* for the days of the week. Other weekdays, that are not in ordinary time, or that possess a special / different plotting rule, may or may not have complete records of these attributes.

* + **Special Events**
    1. **Moveable Feasts**

For Moveable feasts, the event determinant table in the database is responsible in designating all the allotted moveable feasts within the specified year. The dates of moveable feasts present from the years 1969 – 2050 must be encoded in the database. These have been retrieved from the main lectionary resource site provided by the client. Some moveable feasts possess various attributes similar to that of the Sunday / Weekday Readings

* + 1. **Memorials, Solemnities, Feasts**

Memorials, Solemnities and Feasts have various readings that are similar to the weekday and Sunday readings. These have been individually specified in the database records.

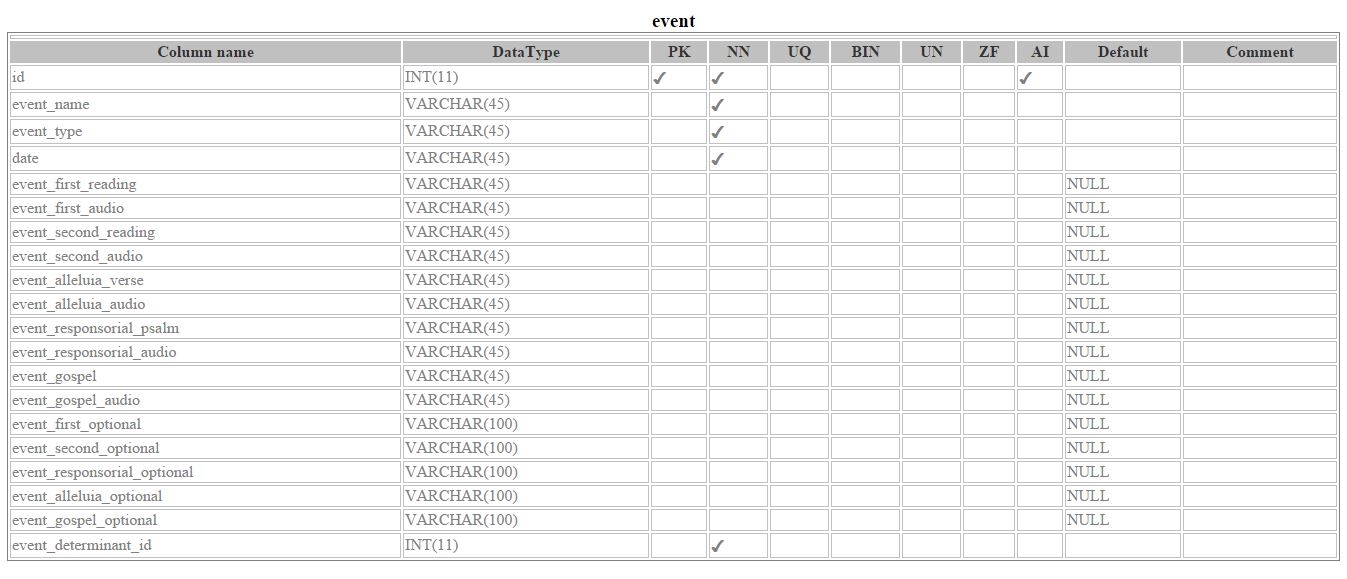
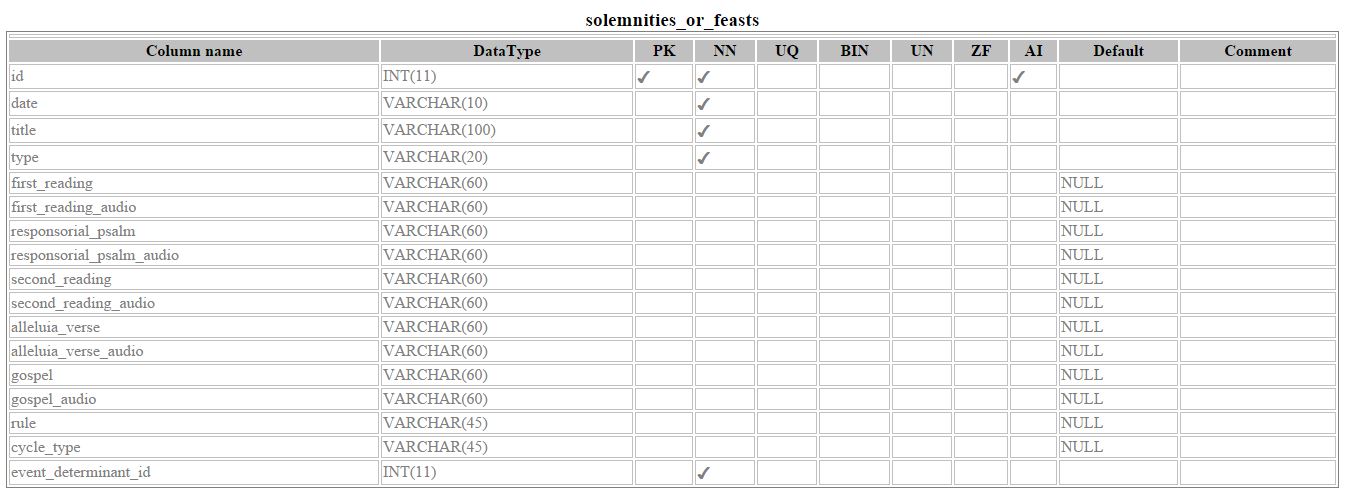
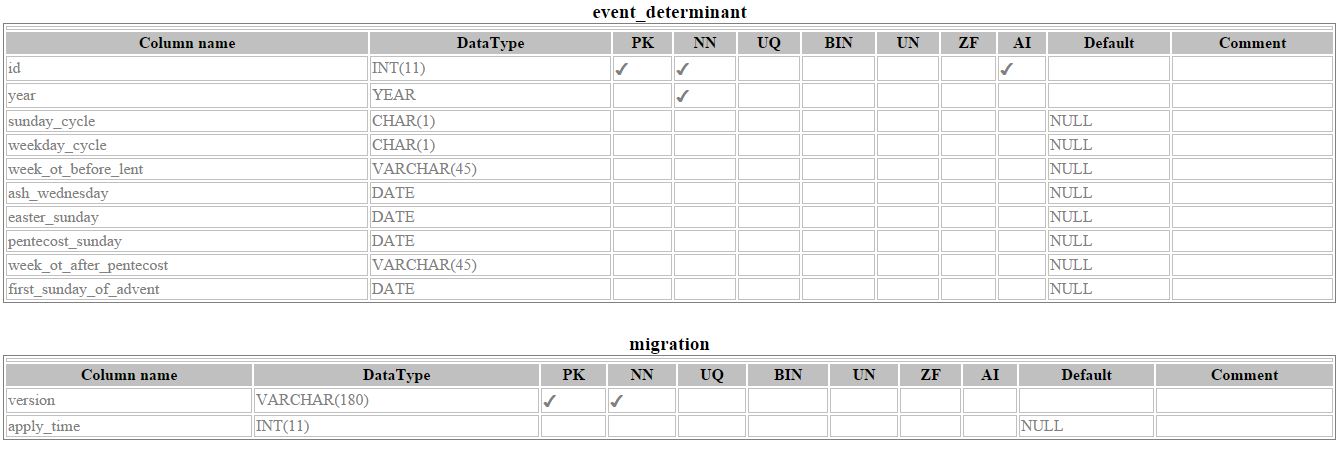
* + 1. **Special Feasts**

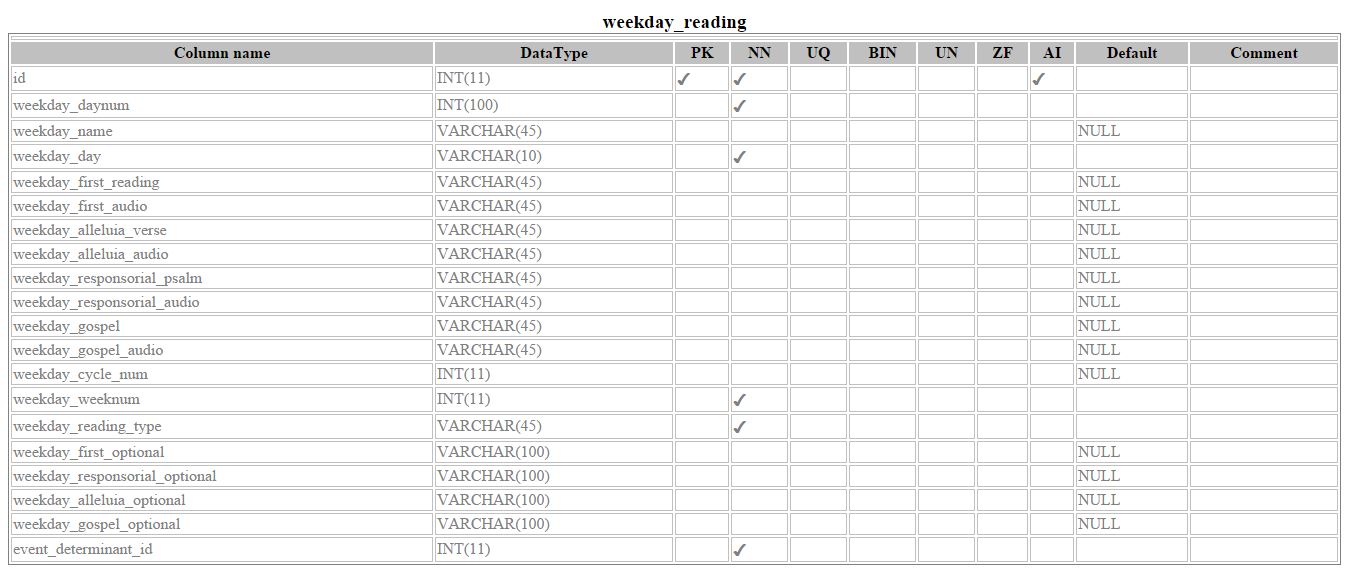
These special feasts are events that have exact dates. These have been recorded in the Event table.

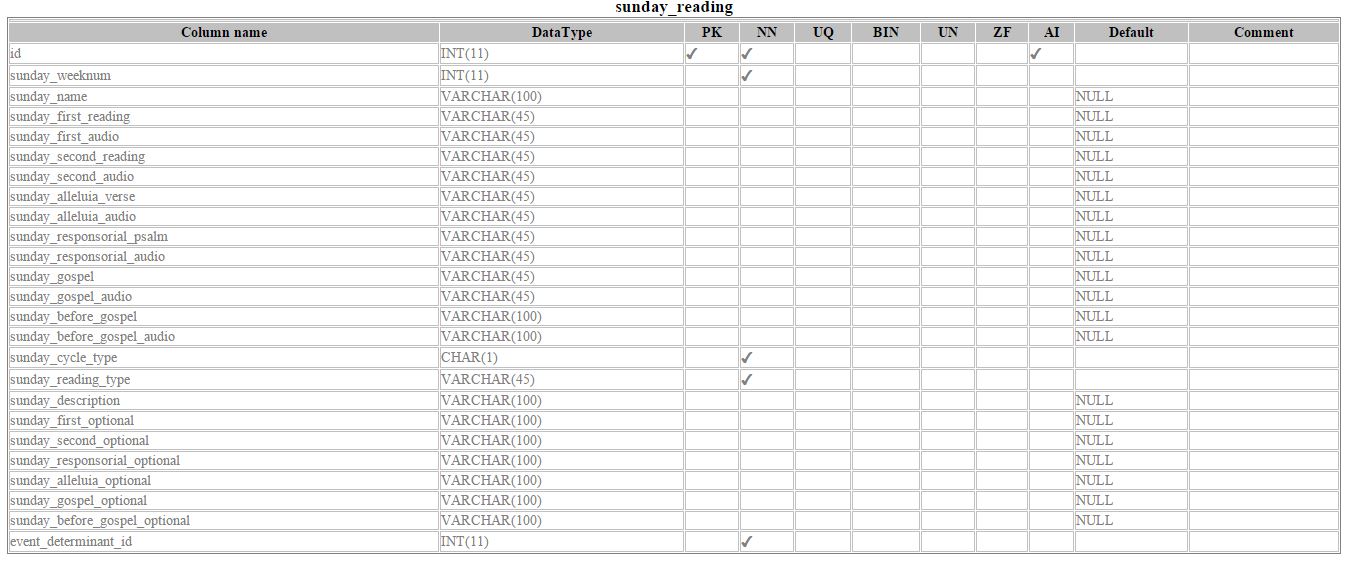
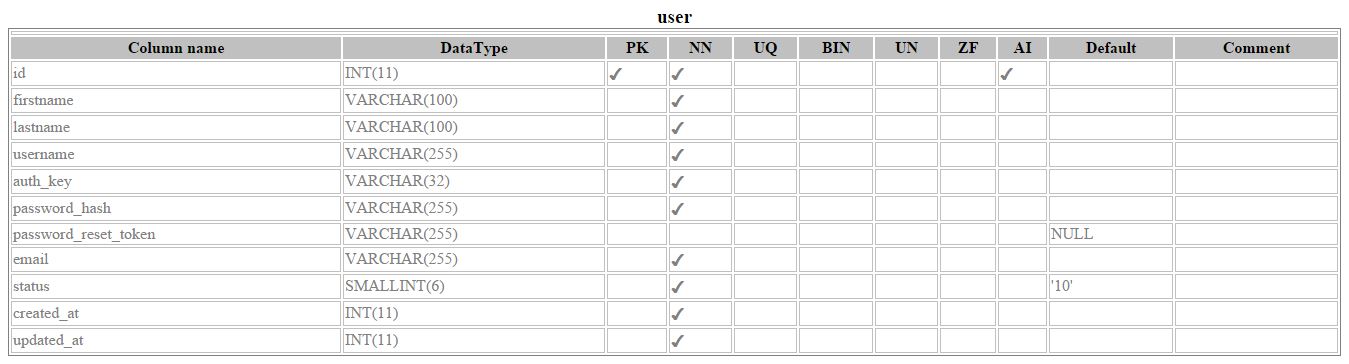
* **Optional Scenarios and Frequently Asked Questions**

The following are optional scenarios segregated according to the users involved in the Software Quality Assurance Plan. These scenarios are done in the form of *Frequently Asked Questions* for the benefit of comprehensibility. Responses to the said questions are immediately to be sufficed after the complete processing of the system:

* + **Tester**
    1. “How can I verify displayed items from the database?”
       - The lectionary calendar reflects that of the database, there are two ways:
         1. Secure a copy of the database
         2. Click the view link in the administrator site, and locate, one by one, the readings / items you want to verify
    2. “How can I verify event details and other pertinent information?”
       - There are various sources available in the internet, however most of the said details used by the developers came from client information.
       - Some information are present in the [Catholic Resources](http://catholic-resources.org/Lectionary/1998USL.htm) site given by the client.
       - It is also important to note, that not every single event in the Catholic Resources site are to be encoded due to
         1. System Coding limitations
         2. Subjective event plotting
         3. Multiple conditions to be considered
       - These will further be expounded on, in the Test Plan
    3. “How can I test the CRUD?”
       - To be able to test the CRUD, you must have access to the site. This is the disparity to be used during Dynamic Testing. The test will follow this schema:
         1. Testers are only to test administrator roles, (since user roles are limited to viewing calendar and listening to audio, and may only be achieved upon integration with the main site of our client)
         2. The site will presumably only be available for them, which gives them the capability to sign up and make their own accounts
         3. Upon making their accounts, they will be able to test the CRUD

**Data Dictionary**



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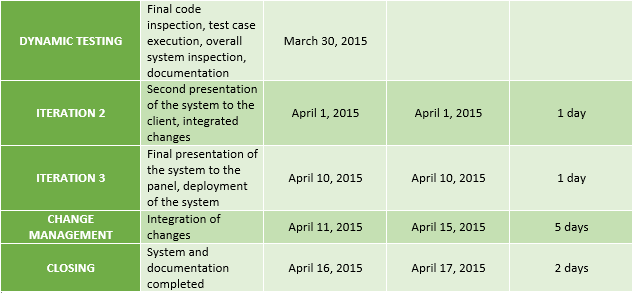
1. **Implementation Map**

Image 1.9 **Implementation Map**

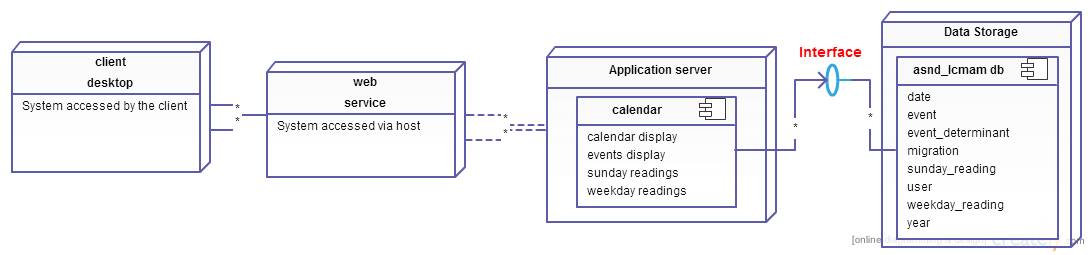


Image 2.0 **Implementation Map**

For the ***Requirements Traceability Matrix*** part of this section, please refer to ***Software Requirements Document*** section of this document.

1. **Test Plan**

This Software Test Plan was defined for the purpose of documenting the test procedures, test cases, and test steps required to validate the development effort.

1. **Background & Introduction**

Projects done using the Agile Method of development, are necessarily given a requirement of passing a certain level of confidence that the system is working at par with the industry’s requirements. To be able to satisfy this requirement, testing must be done. Testing chosen specifically for this project involves various stages (i.e. Static, Dynamic Quality Assurance Testing, etc.) It is included in this project’s success factors that the project’s passing rate should be in line with the standards defined in this test plan.

Scheduled *Static* and *Dynamic Tests* have been given to the proponents of this project. Therefore, during the said intended schedules of testing, the team’s prototype for the current iteration will be assessed by an external Quality Assurance Team using generically independent standards to rate the deemed project.

In conclusion of the each test phase, evaluation by the external Quality Assurance Team will be duly noted and assessed. For static test results, correction to the specified documentation and files will be implemented as soon as the reception of errors / comments. For dynamic test results, a record of issues and a log of bugs must be specified to identify the specified change requests and fixes to be implemented by the team for the project. Succeeding Quality Assurance tests will be subject to the results of the previous static / dynamic test, in line with previous updates and corrections done by the team.

In any application, inherent latency issues, speed and reliability concerns will always be present. It is important to note, that most of these issues are to be addressed by developers as well, this application is not **error – free,** specifically due to the following:

* **System coding limitations** (Some factors that inhibit the developers from including multiple years in the calendar include the system slowing down and failing, upon requiring multiple events for all years, system is limited to only retrieving json data for it to display events, etc.)
* **Subjective event plotting** (Some events are specifically mandated by the Vatican or by the Pope, some are also left subjectively for the local priest / bishops to choose, therefore, this kind of subjectivity cannot be written in plain code (e.g. conflicts in solemnities and other same-leveled priority of events))
* **Multiple conditions to be considered** (There are some events that are dependent on other events for a certain year, that have not been identified, scheduled identification is only to be assessed during the year itself (e.g. new dates for Special Solemnities, etc.))
* There will always be **some variable and inconsistent date changes** in every liturgical cycle, meaning – not every date in the calendar might be populated for every year, and with due diligence of the developers, while in cooperation with the client, must be explained to the users of the system

1. **Assumptions**

Before the basis of any assumption, the following dependencies are core concepts that may serve as the scaffolding of the project’s test phase:

* The system must have sufficed the following basic deliverables, some of which, have been declared in the project scope:
  + Basic document deliverables (i.e. SQAP, Test Cases, etc.) to be evaluated **(Static testing)**
  + A database that includes all the *religious events* (e.g. lections, feasts and celebrations) within the year **(Static testing)**
  + Create a tool for value-inclusion in the database **(Dynamic testing)**
  + Provide a calendar that represents lections and mass readings for each date **(Dynamic testing)**
* Developer and designer involvement in the project have been clarified
  + The roles and responsibilities of each member of the team have been defined and clarified
* The Gathering Requirements phase has been accomplished successfully, and the current phase includes designing and development

In testing the system, the following assumptions are considered and are expected:

* System requirements have been set, and conditions dependent on the system have been provided by the proponents
  + The testing plan, test cases and other necessary requirements for testing to proceed have been provided by the proponents
* An external Quality Assurance Team has been selected to review the selected deliverables
* A certain standard has been set to properly evaluate the said deliverables; preferably these standards are set in a scale that can be quantified through values, and duly evaluated through description
* The testing role to be undertaken during dynamic testing is the **administrator role**

Assuming that all the dependencies and assumptions are satisfied, specified and scheduled testing phases may proceed. It is important to note that these testing phases are specifically contingent to the schedules set for the project’s evaluation.

1. **Test Items / Programs**

The proponents have prepared the following to properly establish the items that must be tested during the phases of Quality Assurance Testing:

* 1. **Documentation for Static Testing**
     1. Project Requirements Definition
     2. Project Logical Design
     3. Project Physical Design
     4. Database Design
     5. User Interface
     6. Software Program Logic / Code
     7. Software Error Handling
     8. Test Plan, Test Cases
     9. Overall Quality of Documentation
     10. Documentation Completeness
  2. **Calendar display**
     1. Calendar Interface
     2. Features
  3. **CRUD for data storage**
     1. Create capability
     2. Read capability
     3. Update capability
     4. Delete capability

1. **Features To Be Tested**

The following items are the test records described in the test cases, these are the features to be tested during the scheduled Dynamic Testing. The section of *Features Not to Be Tested* discusses variable data to be tested.

* 1. **Security of User Registration and Login (Registration and Login)**
     1. User Site Access
     2. User Site Registration
     3. User Site Login
  2. **Correctness and legitimacy of event display (Calendar view)**
     1. Calendar Display
     2. Calendar Display Inspection
     3. Calendar Display Refresh
     4. Calendar Display Verification
  3. **Completeness of events being displayed (Reading view)**
     1. Events Display
     2. Calendar and Events Display Inspection
     3. Events Display Refresh
     4. Events Display Verification
  4. **Readability of calendar events (Event view)**
     1. Calendar Display
     2. Event Display
     3. Event Readability
  5. **Event Rendering in the calendar(Event Plotting)**
     1. Moveable Feasts
        1. Ash Wednesday
        2. Easter Sunday
        3. Pentecost Sunday
        4. First Sunday of Advent
     2. Completeness of month
        1. January – December
  6. **Dynamism of Administrator and User Privileges (CRUD)\***
     1. Available Administrator Features
     2. Available User Features

\*It is important to note, that not all items have CRUD functionalities, this will be explained in detailed in the Features not to be tested

* + 1. Create Items
    2. Read Items
    3. Update Items
    4. Delete Items

1. **Features Not To Be Tested**

The features not to be tested are to be duly evaluated in the following table. These are not to be tested because it is not present in the prototype during dynamic testing. Therefore, the implementation of the following features of the system are still underway.

|  |  |
| --- | --- |
| Possible Issues to be Encountered | Reason for Exclusion |
| Creating, and Deleting of Items not provided in the test cases and the links | * Creating, and deleting if done in the proposed system, may affect how the system performs. * In line with the client’s original request, no adding / deleting must happen, however it is still done, to fulfill requirements * Unplanned, and unnecessary creation / deletion of various items in the database will conflict with the originally set details / data |
| Updating of Items not provided in the test cases and the links | * Unplanned, and unnecessary updating of various items in the database will conflict with the originally set details / data |
| Color Schemes | * Color schemes are still subject to the client’s choice, and are still to be decided as to whether or not, schemes will still even be applied |
| Audio Files | * Audio files are to be implemented during Iteration 3, and are still due only for the client’s benefit. The usage of audio files are to be confirmed with the client, once Iteration 2 has been performed |
| Optional Readings in the pop – up for Events Rendered | * The initial content of the popup, is the name of the reading it specifies, however, description of its content is still to be verified with the client during Iteration 2 |
| No Biblical References | * Even items with no biblical references are encoded in the database, as per initial instructions of “including readings”, after all, these may be edited using the update function specified only for certain records |
|  |  |

Table 1.6 **Features Not to be Tested and Executed**

The mentioned features in the previous sections, are given explanations and certain margins of validity and fault in the Pass/Fail Criteria.

1. **Approach**

The agile approach for development warrants a brief definition of the Quality Assurance Testing Phases of this project. For the currently defined phases, the following table illustrates the necessary information for the approach in each QAT phase:

|  |  |  |
| --- | --- | --- |
| Name | Approach | Methodologies Involved |
| Static Testing | * Documentation – oriented * Specification and Requirements Scrutiny | * Identification of requirements, targets and methods * Analysis of completeness of information necessary to proceed to development phase * Evaluation of documentation and conformity to standards in the industry |
| Dynamic Testing | * Project and prototype – oriented * Testing for Cases / Scenarios | * Identification of features involved in project * Verification of the project’s achievement of the required functionality through evaluation *via* the *selected standards* and quality assurance *metrics* |

Table 1.7 **Approaches for the Project’s Quality Assurance Testing Phases**

1. **Pass / Fail Criteria**

The succeeding table summarizes the specific criteria that may serve as the establishment of the necessary standards to properly evaluate and analyze the application’s verification of the required functionalities:

|  |  |  |
| --- | --- | --- |
| Feature | Margin of Validity | Margin of Fault |
| Security of User Registration and Login | * User is **registered with a viable username and password** of his/her choice * Username and password **works effectively** | * User **cannot be** **registered with a viable** username and password * Username and password **does not work effectively** |
| Correctness and legitimacy of event display | * The events being displayed are **in line** with the client’s requirements * The events being displayed are **identical** to the data presently stored in the database | * The events being displayed are **not in line** with the client’s requirements, and are variably different * The events being displayed are **not** **identical** to the data presently stored in the database |
| Completeness of events being displayed | * The data present in the calendar are **complete** and **conforms** to the populated data | * The data present in the calendar are **incomplete** and **does not conform** to the populated data |
| Readability of calendar events | * The events displayed in the calendar are **readable** and are **recognizable** * The data **brings clarity** to the prospect users | * The events displayed in the calendar are **not readable** and are **unrecognizable** * The data causes the prospect users to be **misled** |
| Event Rendering in the Calendar | * The rendering of events in the calendar are in accordance to what is in the database | * The rendering of events in the calendar are not in accordance to what is in the database |
| Dynamism of Administrator and User Privileges | * Administrator privileges are **well-defined** * CRUD **performs** required functionality | * Administrator privileges and user privileges are **not defined** * CRUD **does not** **perform** required functionality |

Table 1.8 **Pass / Fail Criteria**

The following table summarizes the Itemized list of expected and excusable outputs and the reason for providing space for leniency:

|  |  |  |  |
| --- | --- | --- | --- |
| Feature | Expected Outputs | Excusable Outputs | Reason for Tolerances and Leniency |
| Registration | * User must be properly registered | * User may have difficulty and may yield faults typing certain fields | * User error is not engaged by the system, mitigation factors maybe included |
| Login | * User must be able to login as user / as an admin according to their respective roles | * User may have difficulty and may yield faults typing certain fields | * User error is not engaged by the system, mitigation factors maybe included |
| Calendar | * Calendar will display output but with inherent latency | * A lag in the rendering of events in the calendar | * Somehow, client side queries will take its toll in the event renderer, which means that *inherent latency* is an application limitation |
| Events | * Events will be rendered in accordance to the displayed month | * Some events will load slower than others | * Multiple select statements will be assessed by the system, therefore some events will yield various differentiated effects |
| Event Plotting | * Events will render various retrieved dates from the database | * Some events will be displayed in accordance to what is in the database | * Events plotted are directly taken from the database, thus whatever is displayed, is whatever is retrieved |
| CRUD | * CRUD must be able to perform the mentioned functions synchronized with the database | * CRUD is not available for all items, some items only allow Read and Update | * If Create and Delete is to be allowed in all features, the calendar’s coding sequence would be disrupted |

Table 1.9 **Itemized Features and Excusable Outputs**

1. **Test Deliverables**
2. **Deliverables Matrix**

The table below shows the list of deliverables that should be produced during the testing phase of the project. Specific deliverables are preferred to be delivered as a part of test validation. These deliverables should opt to support the project’s overall objectives and maintain the quality.

|  |  |
| --- | --- |
| DELIVERABLES | |
| Documents | Test Approach Document |
|  | Test Schedule |
|  | Test Specifications |
|  | Requirements Traceability Matrix |
| Test Case / Bug Write - Ups | Test Cases / Results |
| Reports | Test Status Reports |
|  | Test Final Report – Sign Off |

Table 2.0 **Deliverables Matrix**

1. **Documents**

The section of the test plan describes some of the documents needed in performing the testing phase of the project.

1. **Test Approach Document**

This document describes the overall test approach to be taken in the testing phase of the project. When this document is completed, the Test Lead will distribute it to the development lead, user representative, project manager and others as required for review and sign-off.

Since the project uses the agile approach for development, the following table shows the necessary information needed in proceeding to the testing phase.

|  |  |  |
| --- | --- | --- |
| Name | Approach | Methodologies Involved |
| Static Testing | * Documentation – oriented * Specification and Requirements Scrutiny | * Identification of requirements, targets and methods * Analysis of completeness of information necessary to proceed to development phase * Evaluation of documentation and conformity to standards in the industry |
| Dynamic Testing | * Project and prototype – oriented * Testing for Cases / Scenarios | * Identification of features involved in project * Verification of the project’s achievement of the required functionality through evaluation *via* the *selected standards* and quality assurance *metrics* |

Table 2.1 **Approach Matrix**

1. **Test Schedule**

The test schedule document of this project is thoroughly described and illustrated in another section of this document. Please refer to the ***Schedule*** ***section*** of this test plan document.

1. **Test Specifications**

The test specification document describes the system requirements, functional and design specifications primarily derived in collaboration with the client. This document provides details with regard to the construction of test cases and the basis of test scenarios indicated in the test cases.

Basically, the software requirements document of this project indicated in the Software Quality Assurance Plan became one of the main reference of the test items listed in the test cases aside from the information gathered by personally collaborating with the project adviser and the client. For further details, please refer to the Software Quality Assurance Plan particularly the Software Requirements document, the test case document and the test cases provided by the developer team.

1. **Requirements Traceability Matrix**

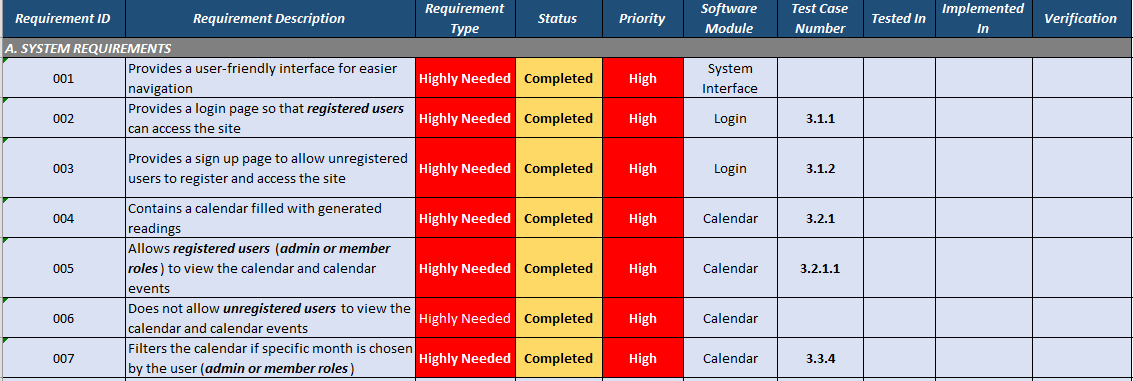
****

Image 2.1.1 **Requirements Traceability Matrix Part 1**

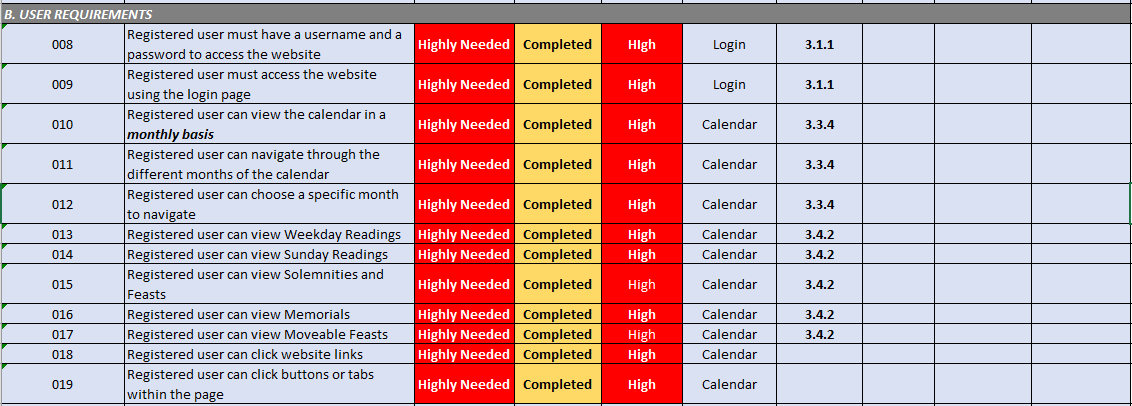


Image 2.1.2 **Requirements Traceability Matrix Part 2**

1. **Defect Tracking and Debugging**
2. **Testing Workflow**

The following diagram illustrates the testing process for developers and adopters for static and dynamic testing.



Image 2.2 **Testing Workflow**

1. **Defect Reporting**

All bugs or defects should be logged using the Bug Report file created by the developer team. Adopters are also recommended to send bug reports upon the usage of the system. The developers will update the bug report file and notify the adopters after the defect has been reported. The Bug Report file is available in the later part of the Test Plan. Please refer to ***Bug Reports*** section under ***Resource and Environmental Needs*** of the Test Plan to see the actual Bug Report file.

1. **Reports**
2. **Testing Status Reports**

The testing status report is created by the developer team to monitor testing activities, its status and the comments in each testing activity. It is provided to the testing team to track progress in the testing phase. The following images shows the sample table included in the testing status report. Please refer to the link provided below for the actual copy of the file.



Image 2.3 **Testing Status Report** (**File** [**link**](https://drive.google.com/file/d/0B-yh-IYX9YZvcW9JTG1jNXRHZW8/view?usp=sharing)**)**

1. **Phase Completion Reports**

After completing the testing phase, the lead tester must submit the documents provided by the developer team to the testing team. The documents must be accomplished already for review and sign-off. The list of expected documents are as follow:

1. Test Cases
2. Testing Status Report
3. Bug Report

A discussion between the developers and the testing team regarding the content of these documents must also be conducted for further issues and queries.

1. **Test Final Report – Sign Off**

The final test report document will be provided by the test lead to the developer team. This document is necessary to verify which testing actually happened, the coverage of the testing phase, the results and the assessment of the system’s readiness for deployment.

1. **Testing Tasks / Setup**

|  |  |
| --- | --- |
| TASKS | DESCRIPTION |
| Create a Test plan | Detailed documentation of the test plan |
| Create Test Cases | Detailed documentation of the test cases to be used |
| Create a Development Database | A development environment type of database to be configured and used during the testing |
| Execute testing | Execute test scripts and other necessary tasks included in the test case |
| Detect and evaluate bugs and errors | During the testing there are bugs and errors that the testers will encounter |
| Report defects encountered during test execution | A detailed report on the defects encountered during test execution |
| Summary Report of Test | A Summary of the entire test including defects detected and the result of the test. |

Table 2.2 **Tasks Setup**

1. **Resources and Environmental needs**
   1. **Testing Tools**
      1. **Tracking Tools**

In accomplishing the testing phase of this project, the testing team will perform a manual testing strategy to identify system bugs and defects. They will track system performance by executing system processes one by one. If there’s any recommendation, the testing team can use any tracking tool compatible in checking the quality of the system.

* 1. **Test Environment**

The testing phase of the project will require specific hardware and software requirements that must be compatible in the system testing procedures. The required specifications are as follows:

* + 1. **Hardware**

The minimum hardware requirements that will be used to test the application are:

* A completely working desktop/laptop
* Stable Internet connection
  + 1. **Software**

In addition to the hardware specifications, the following list of software should be considered / must be present in the workstation that will be used for testing:

* The hosted system
  1. **Bug Severity and Priority Definition**

Identifying bug severity and priority level are both very important in categorizing bugs and prioritizing whether the bug must be fixed immediately or not. The testing phase will definitely need the definition of each bug severity and priority level. The tester will be the one responsible in assigning the severity and priority level in each of the test scenario he/she tested. The lead tester must see to it that a correct severity level is assigned to each system bug.

* + 1. **Severity List**

|  |  |
| --- | --- |
| Severity Level | Severity Description |
| Level 1 (Critical) | * Impaired functionality * Critically impacting client’s processes * The module/product crashes or the bug causes non-recoverable conditions * System crashes or very unstable * Database/file corruption * Potential data loss * Program hangs requiring reboot * Security violation |
| Level 2 (High) | * Major system feature is missing but not critical * Major system component unusable due to failure or incorrect functionality * Bugs cause problems such as lack of functionality, or insufficient or unclear error messages that can have a major impact to the user * Prevents other areas of the system from being tested * Bugs can have a work around but the work around is inconvenient or difficult |
| Level 3 (Medium) | * Incorrect functionality of component or process * There is a simple work around the bug * Some system feature or functionality is missing or not working |
| Level 4 (Low) | * A cosmetic error, spelling mistake, typographical errors. * Documentations errors * Signed-off severity 3 bugs |

Table 2.3 **Severity List**

* + 1. **Priority List**

|  |  |  |
| --- | --- | --- |
| Priority | Priority Level | Priority Description |
| 5 | **Very High** | This bug must be fixed immediately.  The system cannot proceed with further processes with this bug. |
| 4 | **High** | Important bugs that should be fixed as soon as possible. (Loss of function) |
| 3 | **Moderate** | Bugs that should be fixed within the time available. (Gradual performance) |
| 2 | **Low** | Bugs that are not important (at this time).  These bugs can be fixed after all other high priority bugs are fixed. |
| 1 | **Very Low** | Enhancements/Good to have features incorporated – just are out of the current scope. (Minor nuisance) |

Table 2.4 **Priority List**

* 1. **Bug Reporting**

In recording reports on existing bugs, the testers can use the table in an excel file created by the project team. The table is consist of three columns wherein they will log all the tests performed, describe the procedures of the test and record its results. The link to the actual bug report excel file is shown below.

Image 2.4 **Bug Report**

**File** [**link**](https://drive.google.com/file/d/0B-yh-IYX9YZvR3pQMnV0SXI4TlE/view?usp=sharing)

1. **Responsibilities**

**a. Developer**

The developer team of this project, mainly consists of ***Joshua C. Dimapilis, Kimberly Mae B. Elizondo*** *and* ***Trixia Marie A. Urquiza*** from **Asia Pacific College**, take this project to perform software development activities that will suffice the client’s current needs. The responsibilities of the developer team are as follows:

1. Develop the system application, in line with the client’s requirements
2. Develop use cases and finalize requirements in collaboration with the clients/adopters
3. Develop Software Quality Assurance Plan of the system
4. Development and coding processes involved in building up the system
5. Conduct different kind of tests for different group (static and dynamic testing)
6. Support user acceptance testing
7. Develop test plan and test cases primarily for testing procedures
8. Maintenance and support on possible system bugs upon initial deployment of the system

**b. Adopter**

The adopter or mainly the ***client*** of this project is the ***Archdiocesan Liturgical Commission*** located in Manila. They will undertake formal adoption, testing, validation and application of the system developed upon accomplishing all the requirements needed in the system. The adopter’s main responsibilities in this project are as follows:

1. Contribute to the development of use cases and requirements through intense review
2. Involvement in the iterations conducted upon developing the project
3. Contribute to the development and execution of the development test scripts through intense review
4. Conduct full User Acceptance, regression, and end-to-end testing; the said tests will include identifying testing scenarios, creating of test scripts, executing scripts and reporting of results
5. Feedbacks and recommendations upon initial testing of the system for further enhancements

**c. Testing Process Management Team**

The testing process management team is responsible in managing the entire testing process, workflow and quality management which is led by the testing team, the people who will test the system and record the test results. The developers and the adopter are also included in the testing process management team but with minimal involvement. This team’s responsibilities are as follows:

1. Monitor and manage honesty and integrity in the testing process
2. Conduct different kind of tests (static and dynamic testing)
3. Support testing activities
4. Provide an accurate testing result for further enhancements in the system
5. Develop bug and test reports
6. Feedbacks and recommendations after conducting the testing procedures
7. **Staffing and Training**

The team decided to use the simple method for staffing people for the project’s testing phase. The testing team is consists of the people who will test the system components and functionalities and is mainly composed of 3 testers. They are assumed to be knowledgeable of the system they are going to test. Test cases will serve as testing tools in evaluating if the components of the system pass the set of criteria. These test cases are created by project team and will be handed over to the testing team before proceeding to the testing phase. The lead tester may designate the test cases to the other testers for organization and specific evaluation. Testers will test each system component and will take note of the result using a test result table or document. Once the system is completely developed, all members of the project team will test the system thoroughly.

1. **Schedule**

|  |  |  |
| --- | --- | --- |
| DELIVERABLES | DATE | STATUS |
| 1st round of Static Testing   * First Round of Static Testing * Project Requirements Definition * Project Logical Design * Project Physical Design | **2/12/2015** | **COMPLETE** |
| 2nd Round of Static Testing   * Database Design * User Interface * Software Program Logic / Code * Software Error Handling * Test Plan * Test Cases * Overall Quality of Documentation * Documentation Completeness | **3/12/2015** | **COMPLETE** |
| Dynamic Testing   * Test Plan Procedure * Test Cases * Program Flow * User Interface * Error Handling * Over all User Experience | **03/30/2015** | **COMPLETE** |

Table 2.5 **Schedule**

1. **Risks and Contingencies**

The following are the overall risks on the testing process:

|  |  |  |
| --- | --- | --- |
| Areas | Risks | Propositions |
| Tester | * Lack of personnel resources when testing is to begin. * Lack of Knowledge about the system | * Beforehand testers will be advised about the testing schedule. * Testers will be given resources such as wiki page and test plan to provide background about the system and as well as on how the testing goes. |
| System | * Delayed response * Encountered bugs / errors * Delivered wrong output | * It is indicated in the test plan all the possible exceptions for defects / errors, testers must be aware of the list of allowable defects. * For the defects / errors detected that are not part of the exempted error findings. Testers must note the reports about the errors. |
| Environment | * Lack of internet connection * Lack of software and / or hardware * Risk of web – hosting and storing massive amounts of data in the database | * Before testing takes place, all the necessary resources must be checked if properly working. * Hosting the site, with large amounts of data may be mitigated by specifying early on with the client, the expected and the actual size of the data to be stored and used for the project |
| Change Management | * Changes to the original scope of the system | * If changes on the scope have been made, testers will be advised on the possible effects of the changes and will state to the documentation so that they are aware. |

Table 2.6 **Risks and Contingencies**

1. **Approvals**

The names listed below are the authorized people who can approve the process as complete and allow the project to proceed to the next level.

|  |  |  |  |
| --- | --- | --- | --- |
| NAME | POSITION | DATE | SIGNATURE |
| Joshua C. Dimapilis | Project Manager/Developer | **April 13, 2015** |  |
| Kimberly Mae B. Elizondo | Project Designer/Developer | **April 13, 2015** |  |
| Trixia Marie A. Urquiza | Project Designer/Developer | **April 13, 2015** |  |
| Mr. Allan B. Cotecson | Quality Assurance Adviser | **March 30, 2015** |  |
| Mr. Ernesto Boydon | Project Adviser (Software Engineering) | **April 17, 2015** |  |
| Mr. Joe Gene Quesada | Software Development Adviser | **April 10, 2015** |  |

Table 2.7 **Approvals**

1. **Deployment Plan**
2. **Purpose**
   1. **Introduction**

|  |  |
| --- | --- |
| Project Identification | |
| Project Name | AngSalitaNgDiyos.com Liturgical Site |
| Project Deployment Team | Joshua C. Dimapilis |
| Kimberly Mae Elizondo |
| Trixia Marie Urquiza |
| Date Created | 03/08/2015 |
|  |  |

Table 2.8 **Project Deployment Identification**

1. **Deployment Strategy**

The deployment of the project involves the integration of the existing system created by the group adviser, and the system being created by the team. Proper allocations to the deployment strategy are to be discussed in line with the client’s requirements. Cross-side scripting, server-hosting and testing are all part of the *Deployment Strategy* meeting to be conducted with the group adviser and the client.

1. **Deployment Schedule and Resources**

* The required schedule and resources are still to be announced. ***(03/08/2015)***
* The tentative integration schedule can be within the range of the following dates: March 23 – March 28, 2015 ***(03/11/2015)***

1. **Engagement Strategy**
   1. **Description**

Deployment strategy involves the following criteria:

* Functionality – Functions of developed application must be inherited by the integrated calendar
* Scalability – The calendar allows room for growth, and is in line with the existing system’s possible opportunities for extension
* Performance – The calendar performs in line with what is expected of it based on the discussed quality assurance assessments in this plan
  1. **Technical Migration / Deployment Methods**

For technical migration, the necessary deliverables are:

* Functional application
* Deployment schedule
* Administrator rights to existing team adviser’s site
* Wrapper / iFrame instructions
* “Go – signal” from the client

The deployment steps include:

* Usage of administrator rights to be able to access page to which it will be deployed
* Creation of site wrappers that may include the functional application
* Deployment approval from the client
* Deployment metrics to ensure alignment with deployment schedule

1. **Technology, Infrastructure and Support Considerations**
   1. **Testing Methods and Customer Acceptance**

Testing methods include the testing specifications described in the Test Plan section of this document. The quality assurance metrics are still to be considered in circumstances of testing.

Testing methods that must be exercised on the client side:

* System Integration Testing *(By proponents)*
* User – Acceptance Testing
* Regression Testing
  1. **Training Requirements**

Requirements for training the idealized users of the application are naturally in place. The steps involved in this training requirements may be assessed using the system’s quality metrics discussed in the Software Project Management Plan of this document. Intersecting the metrics to the features to be tested in the Test Plan, we may arrive with the following training manual sections:

* **Registration and Login**
* **Calendar view**
* **Reading view**
* **Event view**
* **Link Redirection**
* **CRUD**
  1. **Possible Issues and Conflicts**

***After Static and Dynamic Testing has been accomplished, this area will be populated with possible issues, bugs, defects and other conflicts that may arise during application deployment and usage for the client.***

1. **Acceptance Plan**

The following are the deliverables and their corresponding criteria based on the scope of the project and the requirements that the clients specified.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Completion© |  |  | Acceptance |  |  |
| Milestone | **Deliverable** | **Date** | **Review Method** | **Reviewers** | **Criteria** |
| ALS Project Management Plan | Project Scope Specification | Feb 23,2015 | * Static Testing | * Project Team * QA Team * Client | Clearly define the Scope of the project and the required deliverables of the project |
|  | Logical and Physical System design and Structure | Feb 23,2015 | * Static Testing | * Project Team * QA Team * Client | Clearly define and illustrate design and Structure of the System |
| Design | User interface and database design | Feb 23,2015 | * Static Testing | * Project Team * QA Team * Client | An acceptable User interface that lets the user easily navigate the system and database design that corresponds to the structure of the system |
| Test Plan | Document of the Test plan and procedures to validate test output and guide System Testers. | March 12, 2015 | * Static Testing | * Project Team * QA Team | Create test procedures and output validation for the System testers that will guide them |
| Test Cases | Different Modules/ Items to be tested | March 12, 2015 | * Static Testing * Dynamic Testing | * Project Team * QA Team | Each test Case should identify how the system will respond to user inputs |
| Calendar Application | Plot all readings for the entire year (2015) | February - April | * Dynamic Testing * User Acceptance * Regression Testing * Integration testing | * Project Team * QA Team * Client * Users | Each day of the month should have a corresponding reading |
|  | Correct Sequence of the Events based on the Biblical Calendar | February - April | * Dynamic Testing * User Acceptance * Regression Testing * Integration testing | * Project Team * QA Team * Client * Users | Correct List of Readings per Month and per Day of that specific Month |
|  | Audio Verses | February - April | * Dynamic Testing * User Acceptance * Regression Testing * Integration testing | * Project Team * Client * Users | Plot correct Audio verses for every type of event of the entire calendar |
| ASND\_LCMAM System – frontend | * CRUD and CRUD restrictions * Page navigation * Login * Page restrictions | February - April | * Dynamic Testing * User Acceptance * Regression Testing * Integration testing | * Project Team * QA Team * Client * Users | All the necessary output must comply with the requirements and test plan and test cases |

Table 2.9 **Acceptance Plan**

1. **Installation & Acceptance**
2. **Appendices**

The following section summarizes the documents referenced in this document.

1. **References**

|  |  |  |
| --- | --- | --- |
| **Document Name and Version** | **Description** | **Location** |
| **Deployment Strategy and Plan** | Deployment and Strategy Plan from Ohio Board of Regents | * [University System of Ohio](https://www.ohiohighered.org/) * [Download Link from Ohio Regents](https://www.google.com.ph/url?sa=t&rct=j&q=&esrc=s&source=web&cd=9&cad=rja&uact=8&ved=0CD4QFjAI&url=http%3A%2F%2Fregents.ohio.gov%2Fobrpmcop%2Fforms%2Ftemplates%2Ftemp_deploymentstrategyandplan.doc&ei=iwH8VNGfJ9Hd8AXb34KQBA&usg=AFQjCNHgBcwhS3q4TQCxA8Q9UyAwPVyt5Q&sig2=ZM0LWDgJyb5GRESNTgSxlA&bvm=bv.87611401,d.dGc) |
| **CDC UP Test Case Template** | Centers for Disease Control and Prevention UP Test Case Template | * [CDC UP Test Case Template](https://www.google.com.ph/url?sa=t&rct=j&q=&esrc=s&source=web&cd=5&cad=rja&uact=8&ved=0CCoQFjAE&url=http%3A%2F%2Fwww2.cdc.gov%2Fcdcup%2Flibrary%2Ftemplates%2Fcdc_up_test_case_template.doc&ei=0pT5VKCdIKHGmQXVpoC4CQ&usg=AFQjCNHRcmh-4F4pWH0W1gslKV60qkpIoA&sig2=Tm19bViOMQo17bwDv4Y9yg&bvm=bv.87611401,d.dGY) |

Table 3.0 **List of References**