

# Joy For Kids Shopping Cart and Donation System

# Software Quality Assurance Plan

Project Documentation Submitted

To the Faculty of School of

Computer Science and Information Technology

Of

Asia Pacific College

In Partial Fulfillment of the Requirements for the subject

Applied Projects 2

By

Rennon Errol Dadulla

Katharyn Alexandre Mayo

Lois Anne Logronio

Table of Contents

**Software Project Management Plan3**

Vision and Scope3

Visibility and Risk Analysis3

Management Approach3

Technical Approach3

Use Case3

**Requirements Document4**

Logical Database Description5

Requirements Document5

**Design Document1**

Physical Database Description2

Software Design Document2

**Online Help4**

Data Areas6

Optional Scenarios6

Data Dictionary6

**Implementation Map1**

Implementation Map5

Requirements Traceability Matrix5

**Test Plan4**

Background and Introduction6

Assumptions6

Test Items6

Features to be Tested6

Features not to be Tested6

Approach6

Item Pass/Fail Criteria6

Suspension/Resumption Criteria6

Background and Introduction6

Test Deliverables6

Testing Tasks6

Environmental Needs6

Responsibilities6

Staffing and Training6

Schedule6

Resources6

Risks and Contingencies6

Approvals6

**Deployment Plan1**

Type chapter title (level 2)2

**Acceptance Plan4**

Type chapter title (level 2)5

**Installation and Acceptance4**

Type chapter title (level 2)5

# Software Quality Assurance Plan\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Vision and Scope**

The vision of the project is to provide shopping cart and donation system for those people who are interested on helping Filipino children by donating money or buying items from the foundation through the website.

The following are the required Major and Minor functions of the system:

**Major Functions:**

* Donation function
  + In this module, customers and clients can donate monetary value via debit and credit card which will be redirected to the JFK (Joy for Kids) Paypal account. Small part of the donation will go to the foundation for maintenance while the rest will go the Filipino children who are under the foundation.
* Shopping Cart function
  + In this module, users can help the children under the foundation by buying items sold in the website of the foundation. Proceeds will be used for the children of the foundation.

**Minor Functions:**

* Subscriber function
  + This module lets the user to be updated on the programs made by the foundation and upcoming events of the foundation through emailing the subscribers.
* Volunteer function
  + This module lets the user to be part of the programs to be conducted by the foundation. Volunteers will be contacted if they can come to the upcoming programs.
* Gallery function
  + This module lets the user to know the programs done by the foundation. Description and images are displayed on the Gallery page of the system.

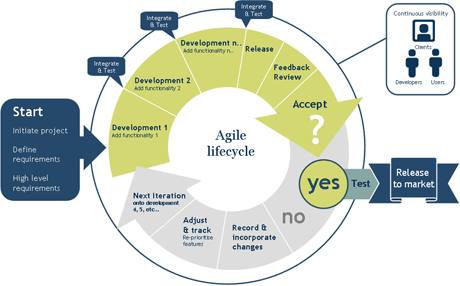
**Visibility and Risk Analysis**

These are the following factors that can affect the visibility of the project and the system that developers are developing:

* Limited time for the project
  + The group is only given 10 weeks for the development of the system. Time management is needed to complete the project and cooperation of project team members so that there will be no miscommunication during the time of development.
* Slow internet connection
  + Clients who have slow internet connection on their device (laptops, PCs, smartphones) OS may have had a hard time on viewing the site and doing online transactions.
* Module functions
  + Each module has a chance that it may not be done because of developers’ lack of knowledge on doing a certain module.

**Management Approach**

The development methodology to be used for the project is the Agile Method, in which series of testing will transpire as the development of the system progresses.



The developer team will have weekly team meetings and must accomplish the following:

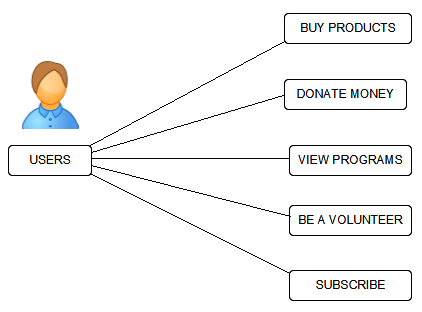
* Weekly Project Status Report (twice a week)
* Weekly Individual Accomplishment Reports
* Documentation (SQAP)

**Technical Approach**

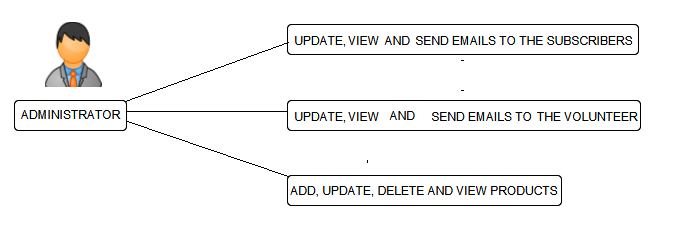
* Database Server: MySQL
* Design Tools: Paint, Pencil Tool, Adobe Photoshop, Pizap
* Documentation Tools: Microsoft Word, MySQL Workbench, yEd Graph Editor
* Programming Languages: PHP, HTML, CSS, Javascript
* Programming Tools: Yii Framework, Notepad++
* Webserver: XAMPP

**Use Case**

**For Users**

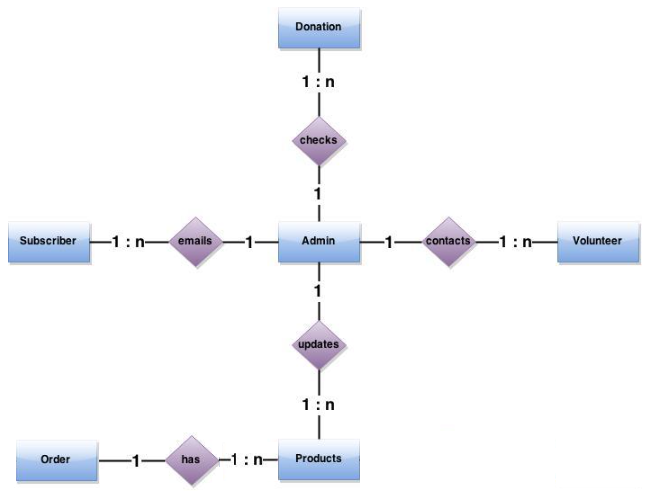


**For Admin**



# Requirements Document\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Logical Database Description***

******

***Software Requirements Document***

**For Users:**

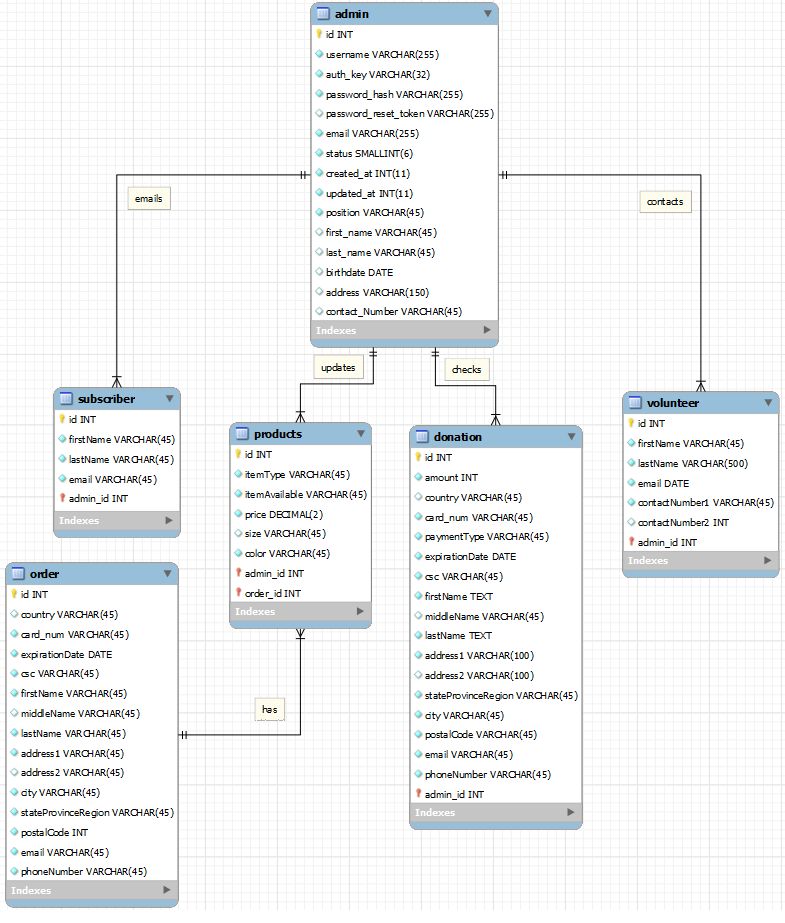
* They will be able to Shop for JFK products
* They can make an Online Donation
* They can view the foundations ongoing, finished, and or future programs
* They can subscribe to receive emails regarding on JFK's programs
* They can be a volunteer

**For Administrator:**

* He/she can update the requested volunteer application
* He/she can send emails to the volunteer and subscriber
* He/she can add and update posts about the programs of the foundation

# Design Document\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Physical Database Description



# Software Design Document

The following are the features of the system:

* Donation function
  + This form lets the user to donate any amount of money to the JFK foundation.
* Shopping Cart function
  + This form enables the user to select and buy products of JFK foundation.
* Programs function
  + This form displays the past, current and upcoming programs of next time.
* Volunteer function
  + This form lets the user to be part of the programs created by the foundation.
* Subscriber function
  + This form lets the user to receive mails from the foundation.

# Online Help\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Data Areas

# Optional Scenarios

The following are the possible scenarios that a user may encounter:

1. A user wants to donate through the system but doesn’t have a PayPal account.

* User can create an account to donate through the system
* User can click the “Continue” link if he/she doesn’t have a PayPal account.

1. A user wants to buy products of the foundation through the system but doesn’t have a PayPal account.

* User can create an account to donate through the system
* User can click the “Continue” link if he/she doesn’t have a PayPal account.

1. Once a user clicked the “Add to cart” button multiple items prompt even if the user only picked one item.

* User can click the “Remove” button to eliminate the undesired items

1. A user wants to include additional items from the shop page.

* User may click “Continue Shopping” button to go back to the shop page to choose additional items. Additional items will be included in the order summary nevertheless selected items before will remain.

1. A user wants to add and lessen the number of items to be bought.

* User may type in the desired number of items then click update to set the quantity.

1. Admin wants to create a new account for admin.

* Admin has no privilege to create a new account since the administrator user is already set to be the admin and it cannot be changed.

# Data Dictionary

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| TABLE NAME | ATTRIBUTE NAME | CONTENTS | TYPE | REFERENCE TABLE | KEY | FK |
| Admin | id  username  auth\_key  password\_hash  password\_reset\_token  email  status  created\_at  updated\_at  position  first\_name  last\_name  birthdate  address  contact\_Number | Admin ID  Username  Password  Password Hash  Reset Token  Email  Status  Date Created  Date Updated  Position  First Name  Last Name  Birth Date  Address  Contact Number | INT  VARCHAR(255)  VARCHAR(32)  VARCHAR(255)  VARCHAR(255)  VARCHAR(255)  SMALLINT(6)  INT(11)  INT(11)  VARCHAR(45)  VARCHAR(45)  VARCHAR(45)  DATE  VARCHAR(150)  VARCHAR(45) |  | PK |  |
| Subscriber | id  firstName  lastName  email  admin\_id | Subscriber ID  First Name  Last Name  Email  Admin ID | INT  VARCHAR(45)  VARCHAR(45)  VARCHAR(45)  INT | Admin | PK  FK | admin\_id |
| Products | id  itemType  itemAvailable  price  size  color  admin\_id  order\_id | Products ID  Item Type  Item Available  Price  Size  Color  Admin ID  Order ID | INT  VARCHAR(45)  VARCHAR(45)  DECIMAL(2)  VARCHAR(45)  VARCHAR(45)  INT  INT | Admin  Order | PK  FK  FK | Admin\_id  Order\_id |
| Donation | id  amount  country  card\_num  paymentType  expirationDate  csc  firstName  middleName  lastName  address1  address2  stateProvinceRegion  city  postalCode  email  phoneNumber  admin\_id | Donation\_id  Amount  Country  Card Number  Payment Type  Expiration Date  CSC  First Name  Middle Name  Last Name  Address  Address  Province  City  Postal Code  Email  Contact Number  Admin ID | INT  INT  VARCHAR(45)  VARCHAR(45)  VARCHAR(45)  DATE  VARCHAR(45)  TEXT  VARCHAR(45)  TEXT  VARCHAR(100)  VARCHAR(100)  VARCHAR(45)  VARCHAR(45)  VARCHAR(45)  VARCHAR(45)  VARCHAR(45)  INT | Admin | PK  FK | admin\_id |
| Volunteer | id  firstName  lastName  email  contactNumber1  contactNumber2  admin\_id | Volunteer ID  First Name  Last Name  Email  Contact Number  Contact Number | INT  VARCHAR(45)  VARCHAR(45)  VARCHAR(45)  VARCHAR(15)  VARCHAR(15)  INT | Admin | PK  FK | admin\_id |
| Order | id  country  card\_num  expirationDate  csc  firstName  middleName  lastName  address1  address2  city  stateProvinceRegion  postalCode  email  phoneNumber | Order\_id  Country  Card Number  Expiration Date  CSC  First Name  Middle Name  Last Name  Address  Address  City  Province  Postal Code  Email  Contact Number | INT  VARCHAR(45)  VARCHAR(45)  DATE  VARCHAR(45)  VARCHAR(45)  VARCHAR(45)  VARCHAR(45)  VARCHAR(45)  VARCHAR(45)  VARCHAR(45)  VARCHAR(45)  INT  VARCHAR(45)  VARCHAR(45) |  | PK |  |

# Implementation Map

***Implementation Map***

***Requirements Traceability Matrix***

# Test Plan\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Background and Introduction

This document has the information regarding the test procedures and test plan for the system to be made for Joy for Kids Universal Foundation Shopping Cart and Donation System. Test classifications, methods and information that are written this document will be carried out during the system’s testing phase. The document will include the software that is going to be used, testing strategy and architecture, integration, validation, and criteria to the software. Test procedures will also be part of this document to better identify the flowing of each test case.

**Objectives**

1. General

• To improve the UI of the website

• To create an easy donating system for clients / customers

• To create a system where the clients / customers know where there donation goes (children, charity).

1. Specific

• To develop a database that shows all records of Joy for Kids Universal Foundation

• To develop an events page that has already been created and the following events to be created

• To automate and reduce the time in monitoring and recording data

• To create a list page where the list of children and the sponsors of Joy for Kids Universal Foundation.

# Assumptions

• The team assumes that the development of the system will be finished on time

• The team assumes that the system being developed is a bug-free system

• The team assumes that the client's requirements are met

• The team assumes that the test cases created are all applicable for the quality testing

• The team assumes that the documents for the system will pass the quality testing conducted by the SQA group

• The team assumes that the system created will pass the quality testing conducted by the SQA group

• The team assumes that the system will be deployed

• The team leader assumes that each member is doing his/her assigned tasks

# Test Items

•Login module

•Donation module

•Shopping Cart module

•Volunteer module

•Subscribe module

# Features to be Tested

The following are the features to be tested during the testing phase:

1. Home Page

* User can donate
* User can subscribe
* User can volunteer

1. Programs Page

* User can view programs of the foundation
* User can volunteer

1. Donate Page

* User can donate

1. Shop Page

* User can shop products of the foundation

1. Login Page

* Administrator can login

1. Volunteer Page

* Administrator can only view the page once login
* Administrator can view list of volunteers
* Administrator can send email to the volunteers
* Administrator can delete volunteers

1. Products Page

* Administrator can view details of the products
* Administrator can update details of the products
* Administrator can delete details of the products
* Administrator can add products

1. Subscriber Page

* Administrator can only view the page once login
* Administrator can view list of subscribers
* Administrator can send email to the subscribers
* Administrator can delete subscribers

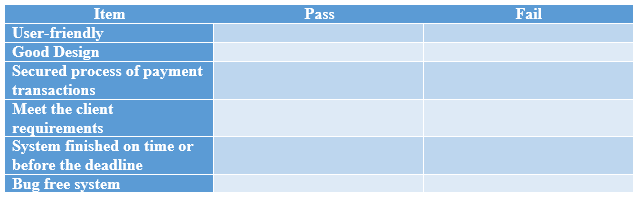
# Features not to be Tested

A part of the system that will not be tested anymore is the *About* page which is a static webpage. This webpage do not have any functions that is included in the required features of the system.

# Approach

|  |  |
| --- | --- |
| Approach | Process |
| Static Testing | Quality Assurance team will test the documents and codes made by the developer team to see if it will meet the client’s requirements. |
| Dynamic Testing | Quality assurance team will test the developed system and see if it will meet the scenarios written in the test cases. |

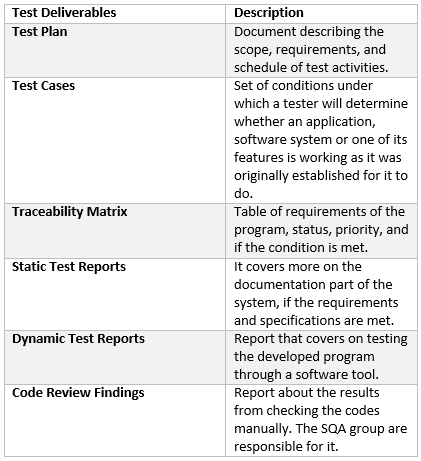
# Item Pass/Fail Criteria



# Suspension/Resumption Criteria

|  |  |  |
| --- | --- | --- |
|  | Suspension | Resumption |
|  | Tasks suspended after knowing that the client’s wants additional functions | Resumes after the project leader analyses changes then divide the additional tasks to each members |
|  | System development suspends after knowing that team has to change from Yii 2.0 basic template to advanced template | Resume after installing the advanced template and learning how to use it. |
|  | Creation of login module suspends after having a complication on client’s needs | Resumes after clarifying client’s needs |
|  | Developing events module suspended after the developer assigned to it cannot work | Developing events module resumes after the project leader reassign it to the other member |
|  | Programming suspended when static testing comes | Programming resumes after static testing |

# Test Deliverables



# Testing Tasks

# Environmental Needs

The following are the pre-requisites to run the system:

**Softwares and Programs:**

For developing and documenting:

* Notepad++ and Sublime text as programming tools
* PHP 5.1+ and above as programming language
* phpMyadmin for database
* XAMPP-win32-1.8.3-2-VC11 for web server
* Yii 2.0 advanced template for framework
* MySQL Workbench as visual tool for database
* yEd graph editor as visual tool for diagrams
* Project Libre as visual tool for scheduling
* Github and code.google as repositories

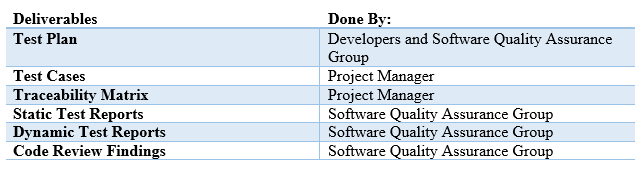
For testing:

* Internet browser
* Tested to work on Windows operating system(Windows XP, Vista, 7, 8, 8.1) and Android operating system

**Hardwares** (minimum requirements):

* Processor: Pentium® Dual-Core CPU @ 2.30Ghz
* Graphics: Integrated / Dedicated 812MB
* Memory: 2GB

# Responsibilities

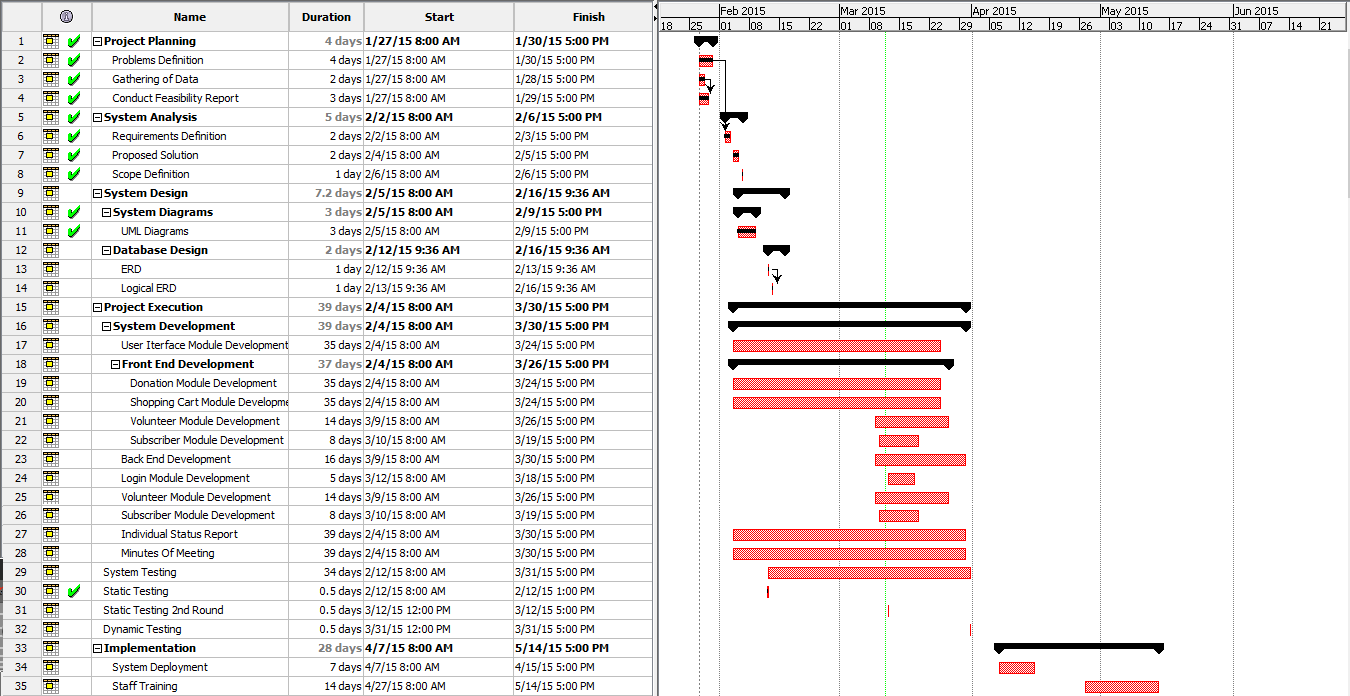


# Staffing and Training

As for the developers, we can say that we can maintain the system in order, when there is a problem we ill try to debug the system and when the system is down, the website will be down as well, but the users will be informed immediately.

The employees of JFK will be trained on how to use the system properly that is why we have 3 iterations to improve our system and guide the ones who will be using it already. They will already have a clear thought of how the system will run despite of the errors and the coding is concerned.

# Schedule



# Resources

# C:\softdev2\apc-softdev-it111-02\documentation\softdev\JFK_Risk_Register.pngRisks and Contingencies

# Approvals

# Deployment Plan

# Acceptance Plan

# Implementation and Acceptance