eStore

Project Plan

Version <3.27>

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
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| 24-05-2012 | 3.27 | Added this and that | M.H. |
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# Introduction

## Definitions, Acronyms, and Abbreviations

## PRD: Project Requirement Document

## BRD: Business Requirement Document

FR: Feature Report

RD: Requirement Document

DD: Design Document

## References

[1] GW-BRD-ESTR

[2] GW-FR-ESTR

[3] GW-PRD-ESTR

[4] GW-RD-ESTR

[5] GW-DD-ESTR

# Project Overview

## Business Background and Overview

RDA’s Pet Food was founded in 1976 by Ali Ahmed Hussain. Ali started selling pet food to the community. In 1983, Ali switched from selling pet food to exclusively selling pets and renamed the company to RDA Pet Store. The business grew steadily through the 80’s so RDA moved to a larger store location in Riyadh.

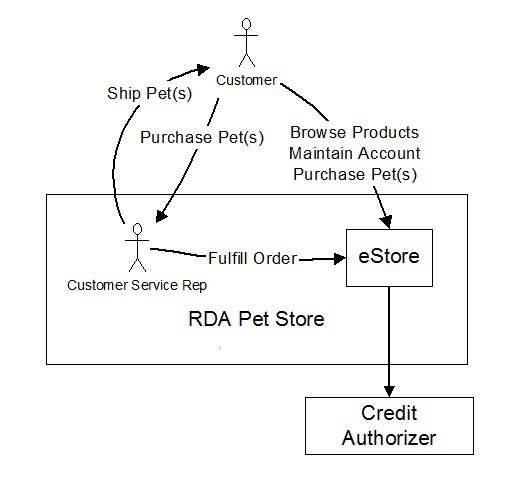
## Business Problem Statement and eStore Objective

RDA would like to expand their business to include Internet mail order customers. RDA wishes to leverage the Internet as a sales and marketing tool to expand their market to the entire KSA. RDA plans to expand their store sales. In addition, RDA is launching the eStore project to expand their customer base to Internet customers in the KSA.

In addition to visiting RDA’s store location, customers may now visit RDA’s eStore web site to browse RDA’s products, maintain account information and purchase pets using their credit card. RDA store employees checks eStore for new, unfulfilled orders and fulfills them by removing the animal from inventory and shipping it to the customer.

In 2011, RDA Pet Store generated 3M SAR in sales. eStore must generate additional annual sales of 775,000 SAR (2013), 1.163 MSAR (2014) and 1.662 MSAR (2015).

The following is a use case diagram of eStore:



## Project Cost Constraints

Currently, the RDA store has 4 fulltime employees at an annual cost of 300,000 SAR. The current staff must be able to fulfill the eStore orders using part time labor during peak periods. The additional labor shall not exceed 30,000 SAR annually. In 2014, RDA plans to hire an additional fulltime employee at a cost of 50,000 SAR/year to support the increased volume of business.

RDA does not have a technical staff. eStore must not require fulltime support of a technical resource. System support and maintenance for eStore must not exceed 50,000 SAR annually. Occasionally, RDA will need to improve eStore. eStore must be able to find a local talent at a rate less than 100 SAR/hr who can quickly and efficiently repair and enhance the eStore application.

## Project Deployment Constraints

50% of RDA’s annual business occurs in the spring. eStore needs to be deployed by 01/04 in order to maximize RDA’s return on investment. If the project misses this window of opportunity, it may be more prudent to temporarily halt investment in the Web site and attempt to hit the 2014 spring season.

## Project Technical Constraints

RDA uses Great Accounting to run their financials.

The performance, load, and scalability requirements are listed in [4].

# Project Organization

## Organizational Structure

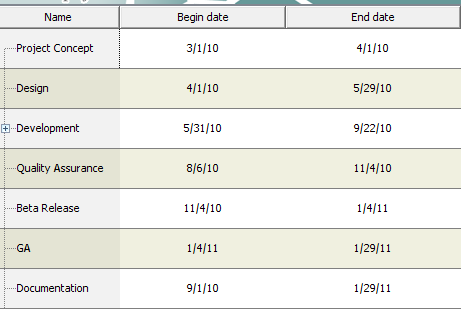
|  |  |
| --- | --- |
| **Person** | **Role** |
| Mostafa Hashimi, Senior Manager | Project Manager Deployment Manager Requirements Reviewer Architecture Reviewer Configuration Manager Change Control Manager |
| Mohammad Moghni, VP Operations | Project Reviewer Requirements Reviewer |
| Amin Tamimi, Senior Developer | Business Analyst Requirements Specifier User Interface Designer Software Architect Design Reviewer  Test Manager  Test Analyst |
| Nabil Marouf, Intermediate Web Developer  Samir Sari, Intermediate DB Developer  Ali Bakkar, Senior Java Developer  Ahmad Attar, Junior Java Developer | Designer Implementer Code Reviewer |
| Abdullatif Sahrawi | Integrator  Test Designer  Tester |
| Abdulmajid Shargui, Intermediate QA Analyst | Test Designer  Tester Technical Writer |

## External Interfaces

|  |  |
| --- | --- |
| **Person** | **Role** |
| Ammar Ghanem | Business Developer, RND |

# Management Process

## Project Estimates



## Phase Plan

The following are the project’s milestones:

* Beta candidate version: 01/12/2012
* GA version: 01/02/2013
* Deployment: 01/03/2013

## Releases

A brief description of each software release and whether it’s demo, beta, and so on.

## Project Resourcing

### Training Plan

No need of staff training for this project.

## Project Monitoring and Control

### Requirement Document

### See [4].

### Design Document

### See [5].

### Communication and Reporting Plan

* Client: every week, progress report sent by email.
* CTO: every week, ppt presentation. See Appendix.
* CEO and other staff: every month during staff monthly meeting.
* Developers and testers: twice a week during team meetings.

## 

## Risk List

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID**  *(From Risk Assessment Document)* | **Description/Mitigation** | **Probability**  *(1-10)* | **Impact**  *(1-10)* | **Risk Factor**  *(Prob \* Impact)* |
| 1 | RDA have little data and experience to predict the amount of web traffic eStore will receive. If we underestimate, application performance is a risk. **Mitigation:** we will offer a solution with double the load RDA are requiring. | 4 | 7 | 28 |
| 2 | Security Risk. If someone hacks into the site and steals customers’ credit card numbers, RDA could be held liable. **Mitigation:** QA will invest significantly in security testing and consult a security expert to review the architecture and procedures. | 8 | 10 | 80 |
| 3 | Security Risk. Customers may attempt to spoof the system to purchase items without paying for them. **Mitigation:** QA will include spoofing tests. | 8 | 7 | 56 |
| 4 | eStore's interface to the Credit Authorizer is crucial. If this goes down, all purchases cease. **Mitigation:** Consult with many Credit Authorizer companies and review their procedures. | 4 | 5 | 20 |

# Quality Assurance Plan

## Tools, Techniques, and Methodologies

eStore's overall test strategy leverages the modular design of the system. Units combine to form components. Components combine to form the system.



Each building block is tested in isolation before it is integrated with other building blocks. As a result, the project performs the following types of testing.

* Unit Test – Verify the unit
* Black-box Test – Verify the component
* Integration Test – Combine components to build a new version of the system
* System Test – Verify that the system performs as specified (performance, load, long-sequence, security)
* Automation using HTTPUnit will be performed when possible
* We need to purchase and use a COTS hacking attempt product.

Test plans will be set for every feature before the development starts.

Test entry criterion: 70% of previous defects fixed.

Test exit criterion: a feature is considered as closed when it is successfully tested in three consecutive builds.

## Test Data Approach

RDA will be asked to provide a large sample of data (a database of more than 100 customers and pets).

## User Acceptance Test (UAT)

Formal acceptance of eStore by RDA is predicated by successfully passing all the system test cases, resulting in 0 open “critical” incidents and 2 or fewer “high priority” incidents, each having a manageable workaround so business operations may proceed. UAT is scheduled to be regression tested in the final system test iteration before deployment. The long-sequence test must pass the million clicks requirement.

## Help Desk Plan

None for this project.

## Documentation Plan

A user manual will be produced. It will be a detailed version of the online help accessible to the employees of RDA. Nabil will assist Doc when required.

Appendix

Content of Project Status Report

# Resources

## Personnel and Staffing

Status of personnel. Report any issues or concerns.

## Financial Data

Current costs compared to the plan.

# Top 3 Risks

Report the status of the top 3 risks.

# Technical Progress

Report technical progress using metrics snapshots, and so on.

# Major Milestone Results

Report the status of major milestones to date.

# Total Project or Product Scope

Report the status of project or product scope.

# Action Items and Follow-through

A list of action items and their current status.