[Lambodar Inc.]

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[Sample Project 3:

Complex SaaS Application]

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# Proposal for BlueVault

# **Technical Part**

## 

## 1. About The Project

New generation distributed computing systems often consist of co-operating components, and make use of object middleware technology, such as CORBA, Java RMI and DCOM. These systems are currently being deployed in mission-critical and long-running applications, such as, for example, telecommunication switches and e-commerce solutions. During their lifetime, these applications must evolve to cope with advances in technology, modifications of their operating environments, and the ever-changing human needs. Due to their availability requirements, it is usually not acceptable (e.g., for economical or safety reasons) to cause major interruptions in the service provided by these systems. The aim of dynamic reconfiguration is to allow a system to evolve at run-time, as opposed to design-time, while introducing little (or ideally minimal) impact on the system’s execution. In this way, systems do not have to be taken off-line, rebooted or restarted to accommodate changes. With the advance of middleware technologies, more middleware-based solutions are deployed for systems that would profit from dynamic reconfiguration. The development of such systems can be facilitated through the inclusion of reconfiguration support in a middleware platform. In this way, application developers can make use of the reconfiguration facilities provided in the middleware platform to deliver applications that can live up to their requirements. The objective of this assignment is to define an architecture and design of middleware support for reconfiguring CORBA-based distributed systems at run-time. The proposed architecture should minimise the requirements on the application layer, maximise the transparency for the involved CORBA objects (especially true for client object in case of a server object upgrade), and minimise the impact on the application development process.

# Technical Section

The web application will be based on the Apache, MySQL, PHP, Linux stack, Magento will be used for CMS, eCommerce, Billing and Provisioning

2. List of important requirements

The goal of this web development project is to create a full online presence for a white box web reseller of cloud storage services. This includes

• GUI design of the front end (public) web site where marketing and sales materials will be housed

• User account creation and setup with upstream provider (livedrive) via API integration

• Billing integration for subscription system with PCI compliant secure credit card processing via a shopping cart

• Support system integration with SSO

## 3. Possible Risks

The project has the following standard risks:

a. Failure of the client to review and respond in a timely mannner to the communication from the Project Manager will risk the timely completion of the project.

b. Changes to the API by the third party company will risk delay and additional costs

## 4. Task

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Tasks** | **Hrs** | **Remarks** |
| **A** | **Architecture** |  |  |
| 1 | Database Schema | 13 |  |
| 2 | Setup Dev Environment | 7 |  |
| **B** | **Graphic Design** |  |  |
| 1 | Create CSS | 34 |  |
| 2 | Create HTML+JS | 38 |  |
| **C** | **CMS** |  |  |
| 1 | Wordpress extension will be added to Magento to handle the Content | 28 |  |
| **D** | **Middleware** |  |  |
| 1 | The eCommerce part will be handled by Magento | 24 |  |
| **E** | **Magento Extension** |  |  |
| 1 | Subscription products | 28 |  |
| 2 | LIvedrive API - 15 functions to be integrated. 5 hrs for each | 75 |  |
| 3 | 14 day trial feature for the products | 19 |  |
| 4 | change plan from monthly to annual. managed pro-rated | 39 |  |
| 7 | User account authentication by eMail if Livedrive API allows | 0 |  |
| 8 | Coupon : %age or fixed amount discount | 9 |  |
| 9 | Rererral Bonus | 18 |  |
| 10 | Subscription payments with Paypal and Authorize.net | 12 |  |
| 11 | PCI: No Credit card data will be stored on the server | 0 |  |
| **F** | **Integrations** |  |  |
| 1 | Newsletter : Customers can optin to a Newsletter at checkout | 24 |  |
| 2 | ZenDesk Integration | 28 |  |
| **G** | **Hosting** |  |  |
| 1 | Installation of the web application to a cloud server (cloudegg.com ) | 0 |  |
| 2 | SSL Installation and configuration (Client pays for the SSL) |  |  |
| **H** | **CDN** |  |  |
| 1 | The images and videos used in the application can be hosted on a CDN | 9 |  |
| 2 | The CSS and Javascript can be hosted on a CDN | 9 |  |
| **I** | **Software Testing** | **45** |  |
| **J** | **Project Management** | **49** |  |
| **\*** | **Total Hours** | **508** |  |
| **\*** | **For Rate. See Table Below** |  |  |
| **\*** | **For Cost. See Table Below** |  |  |
| **K** | **Team** |  |  |
| 1 | Project Manager |  |  |
| 2 | Software Developer |  |  |
| 3 | Graphic Designer |  |  |
| 4 | Software Tester |  |  |

## 5. System Architecture

|  |
| --- |
|  |

The system will consist of following major sections:

The system architecture has the following components:

a. CMS

b. eCommerce

c. Billing

d. Provisioning

e. Consume livedrive API

f. SSO with a openSource HelpDesk osTicket

## 6. Technologies

The web application will be based on the Apache, MySQL, PHP, Linux stack, Magento will be used for CMS, eCommerce, Billing and Provisioning.

## 7. Documentation

No documentation is part of the deliverable

## 8. Communication

Communication would be through eLance and direct eMail

# Financial Part

## 

## 10. Budget details

**Total estimated efforts:**

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Estimated Efforts** | **Hrs** | **Remarks** |
| 1 | Project manager | 49 |  |
| 2 | Senior software engineer | 34.2 |  |
| 3 | Software engineer | 307.8 |  |
| 4 | Web designer | 72 |  |
| 5 | Software test engineer | 45 |  |

**Hour rates**

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Hours Rate** | **Rate (USD/hrs)** | **Remarks** |
| 1 | Project manager | 14 |  |
| 2 | Senior software engineer | 12 |  |
| 3 | Software engineer | 11 |  |
| 4 | Web designer | 9 |  |
| 5 | Software test engineer | 9 |  |

**Budget calculation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Labor Category** | **Duration man-hours** | **Cost per-category** | **Total cost per category** |
| 1 | Project manager | 49 | 14 | 686 |
| 2 | Senior software engineer | 34.2 | 12 | 410.4 |
| 3 | Software engineer | 307.8 | 11 | 3385.8 |
| 4 | Web designer | 72 | 9 | 648 |
| 5 | Software test engineer | 45 | 9 | 405 |

**Additional Services**

## 11. Payment terms

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | Payment Terms | Percentage | Amount | Remarks |
| 1 | Pre-payment | 20 | $1177.04 |  |
| 2 | After completion of Milestone 1 | 30 | $1765.56 |  |
| 3 | After completion of Milestone 2 | 30 | $1765.56 |  |
| 4 | After Delivery | 20 | $1177.04 |  |

**Payment Notes**

We will provide source code only after full payment.

## 12. Warranty

All errors that are discovered within the first three months of system operation will be fixed at no additional cost.

## 13. Maintenance and support terms

a) 90 days free bug fix

b) 3 months of free hosting at http://cloudegg.com

Any additional functionalities can be developed at $11.8/hr.

# General information

## 14. Company information

**Founded in**:

Lambodar Inc. was founded in 2004 in Silicon Valley, California. It currently has a large offshore development center overseas.

**Key Services**:

Lambodar Inc. provides the following services

a. Custom Software Development

b. Bug fixes, Software Support

c. Private Managed Cloud Hosting

d. System Administration Services

e. Mobile web and Native app development for iOS and Android

**Key Skills**:

Lambodar Inc has software developers who are skilled in most software development languages and systems. For example: Ruby on Rails, PHP, C#, Python, C, Objective C, Java, JavaScript, ASP.NET, PHP MVC, Zend, CakePHP, Struts, PhoneGap, Appacelerator Titanium

**Full-Time Employees**:

The following staff will work on this project

a) PHP Developer

b) Project Manager

c) Software Test Engineer

d) Graphic Designer

**Company Address**

123, Any Street, Any City, CA 95129, USA

**Location**:

San Francisco Bay Area and a Software Development centre offshore

## 15. Contact Details

**Email**:

Please use eLance for communication