Project Proposal

Academic Year 2021

Candidate Details

Index No: 1805274

Name of candidate:

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Supervisor/Advisor Details

|  |  |  |
| --- | --- | --- |
|  | Supervisor 1 (IT Related) | Supervisor 2 (Optional) |
| Name | Mr. M.P.Sarath Wijeshinghe |  |
| Designation | Assistant Director - IT |  |
| Workplace address | Sri Lanka Export Development Board, No 42, Nawam Mawatha, Colombo 2 |  |
| Academic/  professional/  qualifications  and  memberships | * Post-Graduate Diploma in Information Technology, University of Kelaniya * Degree in Statistics & Computer Science, University of Sabaragamua * Certificate in PHP and MySql, Sri Lanka Institute of Information Technology (SLIIT) * Certificate in Web Development, Sri Lanka Institute of Information Technology (SLIIT) * Certificate of Creating Quality E-commerce Content conducted by SME Trade Academy, The International Trade Centre(ITC), Palais des Nations, 1211 Geneva 10, Switzerland   Certificate Verification Link: https://learning.intracen.org/verify/?q=s8YMTJ75uD |  |
| Work experience | * Assistant Director – Information Technology Export Development Board 03 years’ experience in managing E-Commerce and Software Development. * 04 years experience in supervising projects at the tertiary level * 12 years experience in implementing IT projects |  |
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Project Details

Title of Project:

Web-Based Online Shopping System for Encryption IT Solutions

If Repeat Student

Number of Attempt(s):

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Previous Decision: 



Earlier Project Title:

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Name and address of client:

Encryption IT Solutions,  
New Shopping Complex, Kaluthra Road,

Bandaragama.

Motivation for project:

Nowadays, computers are becoming one of the most wanted household items and technology is one of the fastest moving areas in the world. The computer sales industry evolves constantly because of the advancements in the latest technologies. The Encryption IT Solutions will be selling all types of computer accessories. They will purchase these goods from local and international manufacturers and sell them at fair prices and they looking to expand their sales online.

They will decide to implement a new online store including user-friendly customer order progress, warranty management, pc builder assistant general computer support troubleshoot, and also include a local delivery assist for customers who purchase items in the online store.

They give me a chance to implement this system and I will get the opportunity to apply my knowledge grab from the BIT Degree program and my experience.

Objectives and scope of proposed project:

Objective:

* Browse through the system and make online orders easily.
* Providing PC Builder assistant for easily build custom pc when the customer has lack of knowledge of computer hardware.
* Assisting with troubleshooting for pc parts online and suggest required parts and make bookings for technical assistance.
* Warranty management for exchange items for warranty or update items warranty.
* Provide a user-friendly and secure method of recording customer orders and confidential data.
* To keep and manipulate client information.
* To maintain the purchase and stock.
* Generating invoices to keep tracking sales and orders.
* To utilize the resource of the shop efficiently by increasing their productivity through automation.
* To assist the staff in capturing the effort spent on their respective work area
* Reduce the manual and repetitive work when purchasing orders online.
* Produce accurate and well-documented reports, which will improve the comprehensibility and decision making power
* Achieve a great amount of accuracy and security
* Provide the facility of backup as per the requirement.

Scope :

* Handling customer orders
* PC Builder Assistant for build custom pc
* Troubleshoot supporter for troubleshooting customer pc failure.
* Booking system for technical support.
* Customer login. Authentication is provided to registered users only
* Report generation feature provided to generate a different kind of reports
* Customer invoice handling
* Manage inventory for items
* A centralized database will be regularly updated
* Automated system generated emails, notifications, and alerts

Critical functionalities for project:

* Make online orders for individual items
* Customer orders and invoice handling
* PC Builder Assistant
* Troubleshoot Manager for individual items
* Manage suppliers
* Stock controlling
* Manage warranty for Items
* Manage item delivery system for customers
* Accurate and responsible for data

Itemized list of deliverables of the system:

* A complete system with meeting the requirement specification
* Source code and database script
* System documentation
* Test documentation.
* User manual and training for the system users.

**A project plan using Gantt chart** (include the work involved in system development as well as writing the dissertation):

**Chart here**

Resource requirements for project (e.g., hardware, software,...)

|  |  |  |
| --- | --- | --- |
|  | Hardware | Software |
| Client | * Intel ® Core i3 Processor * 4.00 RAM * 250GB Hard Disk with 10GB free space | * XAMPP web server (7.3.28) solution stack package with,   - Apache webserver  - MySQL database   * NetBeans IDE 12.4 * MySQL Workbench 8.0 CE * Photoshop CC * Visio 2013 * MS Project 2007 |
| * 1 Mbps internet connection additionally required | |
| Server | * Intel Core i7 Processor * 8.00 GB RAM * 500 GB Hard Disk * Printer for printing reports / Invoices | * Linux * PHP 7.3.28 * MySQL 5.1 * Apache Web Server |

Proposed way of self-evaluating the success of your system:

* Unit testing of each stage of the source code.
* Test the software and its operational behavior with test data.
* Make sure all the customer requirements are captured and within UCSC scope
* Implement final working system on client environments and make sure which covers all the existing manual work
* User Acceptance Testing