Project Proposal

Academic Year 2021

Candidate Details

Index No: 1805274

Name of candidate:

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Supervisor/Advisor Details

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| --- | --- | --- |
|  | 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 02. |  |
| Academic/   * Degree in Statistics & Computer Sciences, University of Sabaragamuwa * Post Graduate Diploma in Information Technology University of Sabaragamuwa * 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 conduct by SME   Certificate Verification Link - <https://learning.intracen.org/verify/?q=s8YMTJ75uD>  professional/  qualifications  and  memberships |  |  |
| Work experience   * Assistant Director - Information Technology Export Development Board * 3 years’ experience in managing E-Commerce and Software Development * 04 years’ experience in supervising projects at tertiary * 7 years’ experience of Software Development * 12 years’ experience in implementing IT Projects | [mpsarathw@gmail.com](mailto:mpsarathw@gmail.com)  [sarathw@edb.gov.lk](mailto:sarathw@edb.gov.lk) |  |
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Note: Any deviation of the final project from the project described in this proposal should   
 be explained by the candidate in the dissertation.

Project Details

Title of Project:

Web-Based Online Shopping System for Encryption IT Solutions

If Repeat Student

Number of Attempt(s):

Previous Decision: 



Earlier Project Title:

Name and address of client:

Encryption IT Solutions

NO: 51/L, New Shopping Complex,

Kaluthara Road,

Bandaragama.

Motivation for project:

* I understand this final year project is a major component of the Bachelor of Information Technology degree offered by the University of Colombo School of Computing.
* Doing the project is a good opportunity for me to improve my knowledge and implement the learning curve of the previous couple of years.
* Encryption IT Solutions needs to extend their sales via an online shopping cart website. They didn't have a properly designed website to attract their customers and the existing website doesn’t have the most wanted features such as checking individual items and an online shopping cart.
* The client doesn't have a customer database including emails and phone numbers to drive a marketing campaign to improve their sale.
* Currently doesn't have Computer parts delivery mechanism with external couriers.
* Most of the customers are in lack of knowledge in computer hardware. They don’t know which part is the best fit for their budget and work. This store only has a physical technical assistant for this purpose.
* Time is very valuable for everyone. Computer repairs take a long time to complete, some customers are don’t have specific knowledge to troubleshoot their systems. They don’t provide a booking system to the customers to save their time.
* As a computer store warranty is mandatory for client and customer. The warranty only has printed documents that can’t check via online on the customer side.

Objectives and scope of proposed project:

Objectives:

* Browse through the website and make online orders easily.
* Providing PC Builder Assistant for easily building a custom pc when the customer has a lack of knowledge of computer hardware.
* Assisting with troubleshooting for PC failures online and suggesting required parts
* Making a booking system for technical assistance.
* Managing warranty for exchange items or updating items warranty.
* Providing item delivery details from 3rd party courier services.
* Providing user-friendly and secure methods of recording customer orders and confidential data.
* To keep and manipulate customer information.
* To maintain the stock and create reorder levels.
* Generating invoices to keep tracking sales and orders.
* To utilize the shop resource to increase their productivity through automation.
* Produce accurate and well-documented reports, which will improve the decision-making power.
* Providing a system log to audit the entire system.
* Archiving a perfect amount of accuracy and security.
* Providing a backup facility to keep system data safe.

Scope:

* Handling customer orders
* PC Builder Assistant for building custom pc for who has a lack of knowledge in computer parts.
* Question-based Online troubleshooter for troubleshooting the pc at home.
* Booking system for technical support.
* Customer login with authentication and validations.
* Generating different kinds of reports.
* Customer invoice handling.
* Stock controlling using the first in first out (FIFO) method.
* Update delivery details.
* A centralized database will be regularly updated.
* Automated system generated notifications and alerts.

Critical functionalities for project:

* Make online orders for individual items
* Customer orders and invoice handling
* Stock handling
* Providing database backup
* System log for audits
* Accurate and responsible for system data.

Itemized list of deliverables of the system:

Note: Deliverables are items that you would deliver to the client at the end of the project.

* System Requirement Specification (SRS)
* System Design Specification
* Fully functional finalized system
* Test results and test plan
* User manual
* Technical manual
* Code Listing

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

Chart

Description automatically generated

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

Hardware requirements

* Processor – Intel Pentium Core i3 third-generation or upper.
* Ram – 8GB
* Storage – 20GB HDD Drive

Software requirements

* Windows 8 or higher OS
* XAMPP Server V 3.2.1 upper with Apache server, MySQL, and PHP
* NetBeans IDE 12 or later
* Chromium-based web browser
* Adobe Photoshop
* Microsoft Office 2016 or later
* Figma

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

* Make sure all the customer requirements are captured according to the scope.
* Unit testing of each stage of the source code and verifying no syntax errors in the code.
* Test the software and operational behavior with test data.
* Implement a final working system on client environments and make sure it covers all the customer requirements.
* User acceptance testing with the client.