

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 02.	
Academic/ professional/ qualifications and memberships	<ul style="list-style-type: none"> 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	
Work experience	<ul style="list-style-type: none"> 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 	
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Phone number/s	0112300705 0718080409	

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: ☐ Same/improved/new

☐ New

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

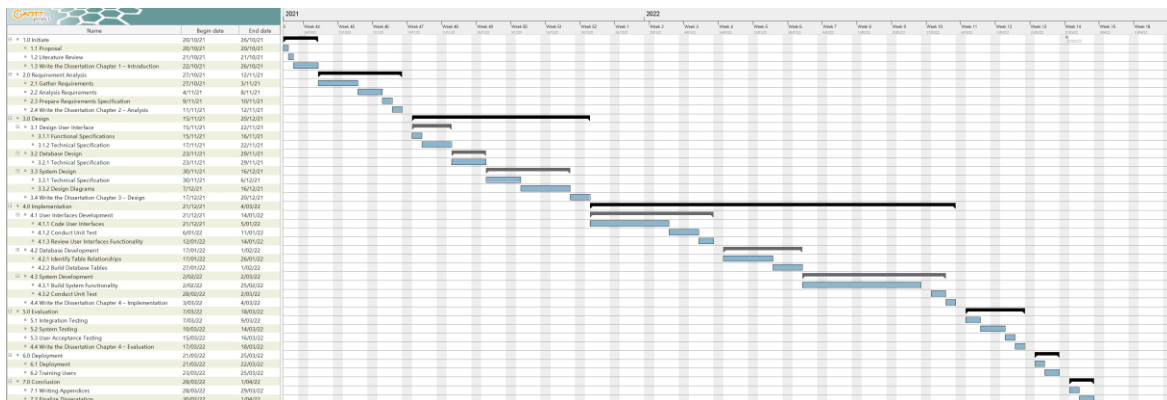
- Providing database backup
- System log for audits
- Accurate and responsible for system data.

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):



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.