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Course Name: Software engineering

CSC 3324 – Section 03

Assessment Type and number

Milestone 1

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1.Introduction

1.1. Scope of the project

A mobile phone app will be developed as the software platform for the Saint Lux mediterranean company, allowing customers to track orders, look through a menu of different lighting options, and receive bills that include the actual amount they will be paying. The program will also provide information on discounts and prices for various types of lighting (Ambient lighting, Task lighting, Accent lighting, Decorative lighting).

Customers will be able to easily track their orders using the software, choose from a range of lighting options from the menu, and receive invoices with the exact amount owed. The program will just generate invoices; it will not offer any additional accounting functionality or payment processing features.

The purpose of the program being described is to deliver a user-friendly mobile phone application that enables clients to effectively track their orders, browse a menu of various light options, and get bills that include the precise amount they will be paying. The software's pertinent advantages include enhanced order management, lower error rates, and more customer satisfaction. The software's goal is to give consumers an affordable and practical way to manage their orders and get invoices. The ultimate objective is to enhance customer satisfaction and boost the effectiveness of the order management procedure.

If higher-level specifications such as the project charter or business case exist, this declaration is consistent with them. The project's scope is well defined and in line with its overarching objectives and goals. The software being developed will offer a solution that complies with higher-level requirements and will benefit customers as anticipated.

The software's primary objective is to help customers, as the manual administration of light orders and facturation that is currently in place can result in inefficiencies, errors, and a lack of real-time visibility. By offering an automated and centralized system for handling orders and facturation, the suggested solution aims to address these problems. This system will enable real-time order tracking, automated billing, and precise record-keeping, ultimately improving efficiency and customer satisfaction. However, there can be integration challenges, and the system might need new technology and knowledge to be implemented. In addition to integrating with existing systems, the proposed system should provide functionality like order administration, order tracking, billing, and reporting.

1.2. Feasibility Study of the project

The proposed application needs to be assessed for its technical and economic feasibility, as well as its financial, legal, and environmental feasibility. The technical feasibility involves ensuring that the application can efficiently manage orders and facturation, store and retrieve data quickly, and integrate with other systems if needed. The economic feasibility includes considering the costs of development, maintenance, and upgrades compared to the potential benefits of the application. The financial feasibility involves projecting revenue and expenses and determining the potential market and pricing strategy. The legal feasibility requires compliance with relevant laws and regulations and avoiding infringement on existing patents, trademarks, or copyrights. The environmental feasibility involves considering the impact of the application on the environment, such as energy consumption and carbon footprint.

All of these factors must be taken into account during the development of the proposed application to ensure its feasibility and success. A thorough assessment of the

application's feasibility can help identify potential challenges and risks and determine whether the project is worth pursuing.

According to the feasibility study done on the proposed application, it is technically, commercially, monetarily, legally, and environmentally possible. The development team should possess the technological know-how required to create an application that effectively controls lighting orders and billing while abiding by all applicable rules and regulations and having no detrimental effects on the environment. Also, the expense of creating, maintaining, and updating the program should be contrasted with any prospective advantages.

To ensure the project's success, it is crucial to carry out additional market research to estimate the potential market's size and the level of demand for the application. This will make it easier to evaluate the project's financial viability. The development team should also have the necessary technical know-how to create and maintain the application. To assure the success of the application, it is crucial to solve these issues even when the feasibility analysis appears encouraging.

1.3. Overview of the document of the whole project

The proposed system for controlling lighting orders and facturation will be covered in detail in the remaining sections of the project specification. Information about the system requirements, system design, development process, testing and quality assurance, deployment strategy, and maintenance strategy will all be included. The paper will also include a budget, timetable, and risk management strategy.

The information presented outlines the key sections that will be included in the system development process. These sections include the requirements, system design, development methodology, testing and quality assurance, deployment plan, and

maintenance plan. The requirements section will focus on outlining functional and non-functional requirements, as well as any constraints or assumptions. The system design section will provide a detailed description of the system architecture, data model, user interface, and system integration. The development methodology section will detail the approach that will be used to develop the system, including development tools and programming languages. The testing and quality assurance section will focus on testing plans and tools that will be used to ensure a high-quality system. Lastly, the deployment and maintenance plans will outline the necessary steps to install, configure, and support the system in the production environment.

The project document will be well-structured, with each section logically and clearly building upon the one before it. An executive summary that gives a general overview of the system and project under consideration will come first. The parts that follow will detail the functional and non-functional requirements, describe the system design, including the architecture, data model, user interface, and system integration, and describe the development process. The document will conclude with a deployment strategy, maintenance plan, project schedule, budget, and risk management plan after a section on testing and quality assurance. Each component will be clearly organized with headings, subheadings, and bullet points to make it simple to read and navigate. To help readers understand the system design and architecture and to give visual assistance, diagrams and pictures will also be used.