

CHAPTER THREE

METHODOLOGY AND SYSTEM ANALYSIS

3.0 Introduction

Methodology refers to the systematic, theoretical analysis of the methods applied within a particular field of study or activity. In various disciplines, methodology outlines the principles, processes and procedures used to conduct research, solve problems, or achieve specific objectives. It encompasses the framework, tools and techniques employed to gather data, analyze information, and draw conclusions, providing a structured and organized approach to achieving goals or answering questions within a defined context.

3.1 Software Engineering Methodology Adopted

This chapter outlines the methodology employed in the development of a Smart Waste Management System (SWMS) using the Structured Systems Analysis and Design Methodology (SSADM). The SSADM is chosen for its systematic and structured approach, allowing for a comprehensive analysis and design of the proposed system.

3.1.1 System Investigation

The initial phase involves a thorough investigation of the existing waste management processes and the identification of key issues. This phase aims to understand the current state of waste management, including collection, transportation, and disposal methods. Data is gathered through interviews, surveys, and site visits to relevant waste management facilities.

3.1.2 Requirements Analysis

In this phase, the requirements of the Smart Waste Management System are identified and documented. This includes functional requirements, such as monitoring waste levels and optimizing collection routes, as well as non-functional requirements, such as system security and scalability. Stakeholder interviews and brainstorming sessions are conducted to gather and prioritize these requirements.

3.1.3 Feasibility Study

A feasibility study is conducted to assess the viability of implementing the proposed SWMS. This includes an analysis of technical, operational, economic, and legal aspects. Cost-benefit analysis is performed to evaluate the potential return on investment, considering the implementation and operational costs against the anticipated benefits.

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G Psacharopoulos



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web his theory gave a generalized explanation of acids and bases based on structure and bonding through the use of the lewis definition of acids and bases chemists are now able to predict a wider variety of acid base reactions lewis theory used electrons instead of proton transfer and specifically stated that an acid is a species that accepts

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web understanding key foundational principles is vital to learning chemistry across different contexts one such foundational principle is the acid base behavior of molecules in the general chemistry sequence the brønsted lowry theory is stressed because it lends itself well to studying equilibrium and kine