**Software Development Model**

The process of creating, maintaining, and ensuring that all functionality and user needs, goals, and objectives are met is shown in the diagram below. This methodology improves the overall process of software development and the quality of the software project.

Documentation

Project Initiation

Requirement Analysis

System Design

Development

Testing

Deployment

Maintenance and Support

Training

Review and Evaluation

**1. Project Initiation:**

The development model for the Document Tracking System for the Municipality of Tanauan encompasses several key phases within the software development life cycle. Commencing with project initiation, the objectives are defined by comprehending the document tracking needs of the municipality and identifying pertinent stakeholders.

**2. Requirement Analysis:**

Moving into the requirement analysis phase, stakeholder interviews are conducted to gather detailed requirements, including user roles, permissions, and workflow considerations. The culmination of this phase results in a detailed requirement specification document, encompassing both functional and non-functional requirements.

**3. System Design:**

System design follows, wherein the overall architecture is meticulously planned, technology and framework choices are made, and the database schema is defined for storing documents and related information. User interface design is concurrently developed, incorporating wireframes and mockups to ensure a user-friendly and intuitive design.

**4. Development:**

The development phase involves the implementation of both frontend and backend components, ensuring responsiveness, accessibility, and robust functionality. Integration follows, facilitating the seamless interaction between frontend and backend, and communication with the database.

**5. Testing:**

Testing is a critical phase where unit testing is conducted to assess individual component functionality, integration testing is performed to verify the proper interaction of all system components, and user acceptance testing (UAT) is executed with actual users from the Municipality of Tanauan, gathering feedback and making necessary adjustments.

**6. Deployment:**

Upon successful testing, the deployment phase involves setting up the production environment, ensuring resolution of all dependencies, and deploying the Document Tracking System to the production environment. Ongoing monitoring is essential, with a provision for rolling back in case of issues.

**7. Maintenance and Support:**

Post-deployment activities encompass post-deployment support, addressing issues as they arise, and providing training and documentation for system users. Regular maintenance and updates are essential for addressing bugs and incorporating new features.

**8. Documentation:**

Documentation is integral throughout the development process, including technical documentation for developers and administrators covering system architecture, code, and database schema. User manuals and guides are also developed to facilitate training and system use.

**9. Training:**

Training sessions for municipality staff on how to effectively use the Document Tracking System are conducted, ensuring ongoing support and resources for users.

**10. Review and Evaluation:**

The final phase involves a post-implementation review, evaluating the success of the Document Tracking System against initial objectives, and collecting feedback from users and stakeholders for future improvements. This comprehensive development model emphasizes communication with stakeholders and continuous testing, ensuring the success of the project.

**Conceptual Framework**

The researchers had a specific vision of the potential direction that the DOCUMENT TRACKING SYSTEM FOR MUNICIPALITY OF TANAUAN could take. They developed a unique conceptual framework that encompasses the inputs, process, and output of the project. This approach allowed them to map out the trajectory of these systems and their expected outcomes.

Respondents

Problems encountered

Books

Software requirements

Downloaded Research

**DOCUMENT TRACKING SYSTEM FOR MUNICIPALITY OF TANAUAN**

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**PROCESS**

**OUTPUT**

**INPUT**

Feedback

**Schematic Diagram**