

ASSIGNMENT

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Topic:- Prepare Software specification Document for a moderately complex process flow system.

Software Requirements Specification Document

A software requirements specification document describes the intended purpose, requirements and nature of a software to be developed. It also includes the yield and cost of the software.

In this document, insurance management system project is used as an example.

Introduction

Insurance management system is a responsive web application that is developed by using latest industrial standard technologies like HTML and Java. The primary aim of this software to provide an improved design methodology, which envisages the future expansion, and modification which is necessary for core sector like banking. The goal of the project is to take policies online by using computer instead of going outside at home. It is easier and quicker.

Existing System

The existing system is the manual system. It is time consuming. It is very difficult for a person to produce the report. There are chances for changing the scheme report. ~~and also~~ This system involves a lot of manual entries with the applications to perform the desired task.

Proposed System

The proposed system is designed to eliminate the drawbacks of the existing system. It is designed by keeping to eliminate the drawback of the present system in order to provide a permanent solution to the problem. The primary aim of the new system is to speed up transactions.

Input Design

Input design is a design process of converting user oriented inputs to a computer based format. The input method used is keyboard. Details are entered through data entry screens. outline data entry accepts commands and the data are displayed on the CRT screen for verification. The major approaches to input design are the menu and the prompt design. In each alternative, the user's option are predefined and the system is designed in a user friendly manner. Appropriate error messages are given when false details are entered. Design of a system in a menu driven fashion enables the user to select any option accordingly, using simple mouse clicks.

The following are the major input forms used for this project.

- * Login form:- This input form is used for providing a username and a password for the Administrator and user.
- * Register user:- This input form is used for storing the details of user who is going to login first.
- * Registration form:- This input form is used for storing the details of the user.
- * send feedback form:- This input form is used for sending the feedback of the user.

Output Design

The output design has been done so that the results of processing should be communicated to the user. Effective output design will improve the clarity and performance of outputs. Output is the main reason for developing the system and the basis on which they will evaluate the usefulness of the application.

output design phase of the system

is concerned with the convergence of information to the end-user friendly manner. The output design should be efficient, intelligible so that system relationship with the end user is improved and they can enhance the process of decision-making.

The following are the major output forms used for this project:-

- * View the approved users:- This output form displays the details of registered users.
- * View user request:- This output form displays the details of the request that the user send.
- * Feedback form:- This output form is used to display the details of users feedback.

Database Design

Database design is an important activity in design. The efficiency of the system lies in the efficiency of the database. The database design consists of pre-determining no. of tables that are to be used and fields that are to be used in each table. The overall objective in the development of a database is to treat data as an organized resource and integrated whole.

A database is a repository of information

it is a collection of interrelated data stored with minimum redundancy to serve many users quickly and efficiently. In this project, we mainly concentrate in relational databases. Relational database stores data in tables, which is in turn composed of rows also known as records, columns also known as fields.

The fields in the relational models are,

- * **Primary key**:- This key is used to identify records uniquely. It also satisfy the not null constraint.
- * **Foreign key**:- A foreign key is a field that points to the primary key of another table.

System Development

System development is the process of defining, designing, testing and implementing a new software application or programs. It could include the internal development of customized systems, the creation of database systems.

Description of modules

This project involves two modules.

- * **Admin**:- The admin has the overall permission over the system. He can add policy, approve user, view user and also view the feedback that are the user gives about the service of the system.
- * **User**:- The user can choose policy after login to the system. Then the user can apply to the policy that he had chosen. He can submitting his valid information and photo. After the admin approve his request he can pay the amount by online.

System Testing

Unit Testing

Unit test Comprises of a set tests performed by an individual program prior to the integration of the unit into large system. A program unit is usually the smallest functional part of the whole system. All the units that makeup the system must be tested independently to ensure that they work as required.

Integration Testing

Integration testing is a system technique for constructing the program structure while at the same time conducting tests to uncover errors associated with interfacing. The objective is to take unit tested modules and build a program structure.

Validation Testing

After validation testing, software is completely assembled as a package, interfacing errors that have been uncovered and corrected and the final series of software test, the validation test begins. Steps taken during software design and it attempt to verify that protection mechanism built into a system testing can greatly improve the probability of successful integration in the largest systems.

System Implementation

System implementation is a final phase i.e., putting the utility into action. Implementation is the state in the project where theoretical design turned into working systems. The system is implemented only after thorough checking is done and if it is found working in according to the specification. The implementation is the final stage and it is an important phase. It involves the individual programming, system testing, user training and the operational running of developed proposed system. Implementation is the process of conversion of a new or revised system

design into an operation one. Implementation is the stage where the theoretical design is converted into a working system.

Implementation plan

For a successful implementation of the system, implementation plan is necessary. Its major elements include test plan, an equipment plan and a launching plan. A test plan is a document detailing a systematic approach to test a system such as a machine or software. The plan typically contains a detailed understanding of what the eventual workflow will be. Training plan is necessary to ensure that all person who are associated with computer related information systems have necessary knowledge and skills.

Security Technologies and policies

A Computer system is secure if neither its ability to attain its objectives nor its availability to survive can be adversely affected by unwanted event. A Computer based security is a combination of many assets or resources designed to perform some function or to provide service. Only valid users can enter into the system. They have to provide a valid username, password and privileges to prove that they are valid users. If any one of them is wrong, access is denied to the system.

System Security

System security refers to the technical innovation and procedures applied to the hardware and operating systems to protect against deliberate damage from a ~~defeath~~ ⁱⁿ threat. The security features are considered while developing the system, so as to avoid the errors that may lead to serious problem.

System Integrity

System integrity refers to the proper functioning of hardware and programs, appropriate physical security and safety.

External Threats A threat to a Computer system in any event that adversely affects the one or more assets or resources, which make up the system.

Privacy

Privacy defines the rights of the user or organization to determine what information they are willing to share with or accept from others and how the organization can be protected against unfair or excessive dissemination of information about it.

Confidentiality

The term Confidentiality is a special status given to sensitive information in a database to minimize the possible invasion of privacy. It is an attribute of information that characterizes its need for protection.

A procedure for protecting system makes sure that the facility is physically secure, provide recovery/restarts capability and has access to backup files. In a database environment, there are three types of failures. They are catastrophic, logical and structural. A catastrophic failure is one where part of a database is unreadable. It is restored using the roll forward method of memory. A logical failure occurs when activity of the database is interrupted with no chance of completing the currently executing transactions. The up

Security Policies

Security is a definition of what it means to be secure for a system, organization or other entity. For an organization, it addresses the constraints on behaviour of its members as well as constraints imposed on adversaries by mechanisms. If it is important to be secure, then it is important to be sure all of the security policy is enforced by mechanisms that are strong enough.

Conclusion

The Insurance management system, the main objective of the system was brought into effect. The system is developed in a Java as front-end tool and Microsoft SQL server as backend tool. This application is currently an open one, which promises any amount of modules to be integrated along with it.

Any system, that has been used for a no. of years gradually decays and becomes less effective because of the changes in environment to which it has to adapt. For a time, it is possible to overcome problems by amending and minor modifications to acknowledgement the need of fundamental change.