





PLAGIARISM SCAN REPORT

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5. SYSTEM DEVELOPMENT LIFE CYCLE (SDLC)

This is commonly referred to as Classic Life Cycle Model (or) Linear successive Model (or) Waterfall technique. This has the subsequent activities.

1. System/Information Engineering and Modeling
2. Software Requirements Analysis
3. Systems Analysis and Design
4. Code Generation
5. Testing
6. Maintenance

5.1. System/Information Engineering and Modeling

As software system is usually of an outsized system (or business), work begins by establishing requirements for all system components and so allocating some set of those requirements to software system. this technique read is important once software system should interface with different components like hardware, individuals and different resources.

System is that the basic and really important demand for the existence of software system in any entity. So, if the system isn't in situ, the system ought to be built and put in situ. In some cases, to extract the most output, the system ought to be re-engineered and spiffed up. Once the best system is built or tuned, the development team studies the software system demand for the system.

5.1.1. Basic Hardware Configuration demand

- Console: - Mouse, Monitor, Keyboard.
- Processor: - Intel Celeron or higher,
- RAM: - 1Gb RAM
- ROM: - sixty four GB disk

5.2. Software Requirement Analysis

This is conjointly referred to as feasibleness study. during this section, the event team visits the client and studies their system. They investigate the necessity for attainable software automation within the given system. By the tip of the feasibleness study, the team furnishes a document that holds the various specific recommendations for the candidate system. It conjointly includes the personnel assignments, costs, project schedule, and target dates. the wants gathering method is intense and focused specially on software system. to grasp the character of the program(s) to be built, the system engineer ("analyst") should perceive the knowledge domain for the software system, furthermore as needed operate, behavior, performance and interfacing.

The essential purpose of this section is to seek out the necessity and to outline the matter that must be resolved.

5.2.1. software requirement

OPERATING SYSTEM: Any software system

COMPILER USED: Java put in Platform.

IDE USED: Eclipse

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Front End: Java Swings Package

Language: English

5.3. System Analysis and Design

In this section, the software system development method, the software's overall structure and its nuances square measure outlined. **In terms of the client/server technology, the number** of tiers required for the package design, the information style, the data structure style etc. square measure all outlined during this section. A software system development model is created. Analysis and style square measure terribly crucial within the whole development cycle. Any glitch within the style section can be terribly overpriced to unravel within the later stage of the software development. a lot of care is taken throughout this section. The system of the product is developed during this section.

5.3.1. software Used: -

Some of the options of Java that square measure utilized in this technique embody, Multithreaded programming that enables running a pair of or a lot of processes at the same time, File Handling for saving, gap and printing file.

5.3.2. Packages Used: -

1. The default package to create any program in Java is lang that's utilized in developing this technique
2. The API to create Graphical program in Java is provided victimization the packages awt and swing. this technique uses each the packages to produce GUI based forms.
3. The streams that square measure wont to write and browse the info over system also are utilized during this system, that square measure within the package of io.

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5.4. Code generation

The design should be translated into a machine-readable type. The code generation step performs this task. If the planning is performed in an exceedingly elaborate manner, code generation is accomplished while not a lot of complication. Programming tools like Compilers, Interpreters, and Debuggers square measure wont to generate the code. Different high level programming languages like C, C++, Pascal, and Java square measure used for coding. With relevancy the kind of application, the correct programming language is chosen.

5.4.1. IMPLEMENTING TEXT EDITOR APPLICATION

Notepad application includes:

- commercialism the intrinsic Java libraries.
- Declaring the variables.
- planning the pad of paper interface.
- Adding listeners for trailing varied
- Events of the pad of paper.
- Handling of text piece of writing events.

5.5. Testing

Once the code is generated, the software system program testing begins. completely different testing methodologies square measure out there to unravel the bugs that were committed throughout the previous phases. completely different testing tools and methodologies square measure already out there.

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Some corporations build their own testing tools that square measure tailor created for his or her own

development operations.

5.6. Maintenance

Software will certainly bear modification once it's delivered to the client. There are several reasons for the modification. modification may happen thanks to some unexpected input values into the system. additionally, the changes within the system could directly have an effect on the software system operations. The software system ought to be developed to accommodate changes that might happen throughout the post implementation amount.

5.6.1. Updates needed

- It ought to have the power to go looking and Replace Text.
- A file ought to be latched with positive identification protection.
- colourful Text would even be entered in pad of paper.
- Size Limitation ought to be removed.
- Theme choice ought to be there for enticing interface.

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· Code Generation The design should be translated into a machine-readable type. The code generation step performs this task. If the look is performed during a detailed manner, code generation are often accomplished while not a lot of complication.

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