**SOFTWARE PROJECT LAB -1**

**Project Proposal**

**Project Title: Intelligent Notepad**

**Presented By:**

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**Introduction**

This application is a text-editor in JAVA. This text editor developed in a Java platform, is a replication of the word editors we all are familiar with and, which we use quite often on a daily basis. The text edited in the editor is stored in the desired location.

Intelegence\_Notepad is a very basic text editor. It is very excellent for writing work,relatively short text documents that you want to save in plain text and that is not all you can do with it. This application provides us with the ability to create, edit and save files containing text. It also provided predict the next word based on the context of the text and check for misspelled words and offer suggestions for corrections.

Java provide an user friendly environment which enables selection of various controls like labels, buttons, textbox, etc. and dragging and dropping them at desired position to give a user friendly environment. In designing the software, ease of understanding is maintained to ensure that a person with a little knowledge of computer can work efficiently.

**Objective**

The main objective is to study Java programming by developing a notepad. A notepad (text-editor) is a computer program that user enter,change,store and usually print text (characters and numbers).

**Target User**

* Students
* Teacher
* Professionals
* Writers
* Programmers

**Functionality & Description:**

* Text editing: create, edit, and delete text .
* Save: Provide functionality to save a file.
* Basic Formatting: Allow users to apply basic text formatting such as bold, italic, underline, and changing font size.
* Undo and Redo: Support undo and redo action.
* Clipboard Integration: Support copying, cutting, and pasting text between the application.
* Next Word Prediction: Predict the next word based on the context of the text.
* Spell Check and Auto-Correction: Check for misspelled words and offer suggestions for corrections.

**Features**

* User-Friendly Interface: Notepad prioritizes simplicity, ensuring it's easy to use. Whether for quick edits or prolonged use.
* speedy Operations: ensuring efficient text editing.
* Reliability: Notepad's reputation for reliability is well-established.
* Versatility: It can be used for any type of text files.

**Model,Tools,Resources**

* **Development Frameworks:**
  + **Swing, AWT**
* **Programming Language:**
* Java
* **IDEs:**
* IntelliJ Idea
* Visual studio code
* **Resources:**
* Google

**Deliverables**

* Source Code
* Document
* Jar File

**Proposed Timeline**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of task** | **8 may** | **june** | **july** |
| **Proposal** |  |  |  |
| **Requirement**  **gathering** |  |  |  |
| **Design** |  |  |  |
| **Implementation** |  |  |  |
| **Testing** |  |  |  |
| **Delivery** |  |  |  |

**Challenge**

* Algorithm Complexity
* User Interface Simplicity
* Performance Optimization
* Implementation of GUI
* Implementation of NLP
* Text Editing Functionality
* Security
* Updates and Maintenance