

DBMS Mini Project

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Project Title: WORD PREDICTOR

Synopsis:

Introduction:

Word Predictor is an application which will predict the next words you may type by using the current word you have just typed. At first the word predictor almost has no vocabulary but don't worry! The more you use more intelligent it becomes in terms of predicting the words.

Problem Statement:

Lot of us hate typing long words and sentences as it is very time consuming. Even though we use same words or even sentences repeatedly we need to type it again and again. So this application solves this problem by suggesting you the next word and providing user ease. As you use this application very often the words will be suggested according to the top five most used words used after the currently typed word. Later these typed sentences can be copied to clipboard by using a single mouse click. And then it can be pasted anywhere.

Hardware and Software:

Hardware: Any machine supporting java.

Software: NetBeans and MySQL

Overall flow and Working:

This application will be developed using java swings i.e. awt. For the development of this project NetBeans IDE is used. The java frame is mainly divided into three compartments

1.User Panel

2.Prediction Panel

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3.Developer Panel

1.User Panel: This is the area where user needs to type to begin the word prediction. Here at the top the user gets the button to copy the text to the clipboard.

2.Prediction Panel: In this area the predicted words will be displayed. The user can select the next word by just clicking on the buttons provided and this will be reflected in the user panel.

3.Developer Panel: This panel is for the developer for the purpose of debugging and understanding the logical errors occurring through the development of the project.

Current word prediction: When any word is being typed (incomplete word) the word is being searched in the data base if too many words are found the top five will be selected on basis of count (no of times word used) which is the attribute to the WordTable. If no word is found the current word prediction is not shown.

Next word prediction: There are three parameters which will lead to the prediction of next word those are Previous word, Current word and Next word. The Previous word will help in predicting the Current word and the Current word will help in predicting the Next word. When the word is typed and the space is entered the word prediction will start this is to avoid insertion of garbage words into the database. When the space is typed the word is being checked into the database. If the word is not found then the word is being inserted with the count as 1(as it is used once). If word is found the count is incremented and the next word is suggested using the NextWord attribute in database tables.

Also the delete button is provided to clear the database and erase the values.

Summary:

This project will help users too use this application as it will reduce the efforts and time for typing the sentences which are often typed by the user and will provide personal text editor experience.