project topic: text editor for the blind

Functional Requirements:

1.Input: Input consists of characters typed in by the user via keyboard. It also involves other input actions such as closing window of the editor, opening a file, saving the current file and creating a new file. It could also involve changing of font size as well as the font.

2.Output:Since we want our text editor to serve the needs of the blind, we have given audio output so that for every character entered by them, a corresponding audio clip corresponding to the entered character is played out. We will also be showing the letters typed by user on the screen.the output that appears on screen can be itallic ,bold according to user requiremens.

3.Software Paradigm used: We will be using Object Oriented Programming to execute the project.

4.Software Technology used: Java 2 Standard Edition(Version 5.0)

5.Data Structures used: This project majorly relies on array list data structure to store what the user has typed into the editor.

Non-functional requirements:

1.Time required: The project will require time spanning the entire semester

2.Availabitity: The software must be ready to render its service at all times when it is opened/running.

3.Dependability:The software must be extremely dependable because the user in this case is blind and may not be able to detect any error as easily as a person with proper eyesight could.

4.reliability:it should be failure free ,able to give what is requested.

5.Usability: The software will be designed to be extremely user friendly as it is targeted for an end user who is blind, so audio response for user input will play a key role in developing the software in a user friendly manner.

6.Compatibility: The software is designed to be compatible in all systems with Java Runtime Environment and suitable hardware resources.

performance,security and ease of use are other non functional requirements but for text editor security is of less concern.