# **Project Proposal: Phonebook Management System**

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## **Project Overview:**

Our group aims to develop a phonebook management system using Java programming language and the Swing graphical user interface toolkit. The phonebook management system will provide a user-friendly simple interface for managing contacts, allowing users to add, edit, and delete contacts.

## **Project Objectives:**

* Develop a Java-based phonebook management system with a Swing GUI.
* Implement functionality to add new contacts, edit existing contacts, and delete contacts.
* Provide a user-friendly simple interface
* Store contacts in memory without using a database.
* Meet the project requirements and deliver a functional and reliable phonebook management system.

## **Features:**

1. Contact Management:
   * Add a new contact by providing a name and phone number.
   * Edit existing contacts by modifying the name and phone number.
   * Delete contacts from the phonebook.
2. User Interface:
   * Display a list of contacts.
   * Input fields for adding or modifying contact details.
   * Buttons for adding, editing, and deleting contacts.
   * Clear fields after successful contact addition or modification.
3. User Experience:
   * Design a simple user-interface with basic usage of Swing toolkit.
   * Implement smooth navigation and responsive user interactions.

## **Resources Required:**

* Development IDE (Eclipse, NetBeans, or IntelliJ IDEA)
* Java Development Kit (JDK)
* Swing GUI library (included in Java SE)
* Version Control System (Git, SVN, etc.) for collaboration and code management

## **Possible Issues:**

* Design complexity: Developing an intuitive and visually appealing user interface can be challenging and may require iterations.
* Data persistence: Storing contacts in memory without a database may limit certain features like search and sorting.