Sure! Below is a simple implementation of Minesweeper using Java Swing. This implementation includes a basic GUI for the game. Note that this is a basic version, and you can extend it further to include features like timing, scoring, difficulty levels, etc.

```
```java
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
public class Minesweeper extends JFrame {
  private final int ROWS = 10;
  private final int COLS = 10;
  private final int NUM MINES = 10;
  private JButton[][] buttons;
  private boolean[][] isMine;
  private boolean[][] isRevealed;
  private int[][] neighborMines;
  public Minesweeper() {
     setTitle("Minesweeper");
     setSize(400, 400);
     setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
     setLayout(new GridLayout(ROWS, COLS));
     buttons = new JButton[ROWS][COLS];
     isMine = new boolean[ROWS][COLS];
     isRevealed = new boolean[ROWS][COLS];
     neighborMines = new int[ROWS][COLS];
     initializeGame();
     setVisible(true);
  }
  private void initializeGame() {
     // Place mines randomly
    for (int i = 0; i < NUM MINES; i++) {
       int row, col;
       do {
         row = (int) (Math.random() * ROWS);
         col = (int) (Math.random() * COLS);
       } while (isMine[row][col]);
       isMine[row][col] = true;
```

```
}
  // Initialize buttons and their action listeners
  for (int i = 0; i < ROWS; i++) {
     for (int j = 0; j < COLS; j++) {
        JButton button = new JButton();
        button.setPreferredSize(new Dimension(30, 30));
        button.setFocusPainted(false);
        button.addMouseListener(new ButtonListener(i, j));
        add(button);
        buttons[i][j] = button;
     }
  }
}
private int countNeighborMines(int row, int col) {
  int count = 0;
  for (int i = Math.max(0, row - 1); i \le Math.min(row + 1, ROWS - 1); i++) {
     for (int j = Math.max(0, col - 1); j \le Math.min(col + 1, COLS - 1); j++) {
        if (isMine[i][j]) {
          count++;
     }
  return count;
}
private void revealNeighbors(int row, int col) {
  for (int i = Math.max(0, row - 1); i \le Math.min(row + 1, ROWS - 1); i++) {
     for (int j = Math.max(0, col - 1); j \le Math.min(col + 1, COLS - 1); j++) {
        if (!isRevealed[i][j] && !isMine[i][j]) {
          revealCell(i, j);
       }
     }
  }
}
private void revealCell(int row, int col) {
  isRevealed[row][col] = true;
  buttons[row][col].setEnabled(false);
  buttons[row][col].setBackground(Color.LIGHT_GRAY);
  if (neighborMines[row][col] > 0) {
     buttons[row][col].setText(Integer.toString(neighborMines[row][col]));
  } else {
```

```
revealNeighbors(row, col);
  }
}
private class ButtonListener extends MouseAdapter {
  private int row, col;
  public ButtonListener(int row, int col) {
     this.row = row;
     this.col = col;
  }
  @Override
  public void mouseClicked(MouseEvent e) {
     if (SwingUtilities.isRightMouseButton(e)) {
       // Right click to mark/unmark mine
       JButton button = (JButton) e.getComponent();
       if (!isRevealed[row][col]) {
          if (button.getText().equals("")) {
             button.setText("X");
          } else {
             button.setText("");
          }
       }
     } else {
       // Left click to reveal cell
       if (!isRevealed[row][col]) {
          if (isMine[row][col]) {
             JOptionPane.showMessageDialog(null, "Game Over! You hit a mine!");
             revealAllMines();
          } else {
             revealCell(row, col);
          }
       }
     }
}
private void revealAllMines() {
  for (int i = 0; i < ROWS; i++) {
     for (int j = 0; j < COLS; j++) {
       if (isMine[i][j]) {
          buttons[i][j].setEnabled(false);
          buttons[i][j].setBackground(Color.RED);
```

```
}
}

public static void main(String[] args) {
    SwingUtilities.invokeLater(() -> new Minesweeper());
}
```

This code sets up a basic Minesweeper game with a 10x10 grid and 10 mines. You can click on the cells to reveal them and right-click to mark a cell as potentially containing a mine. When you hit a mine, a message dialog will appear, and all mines will be revealed.