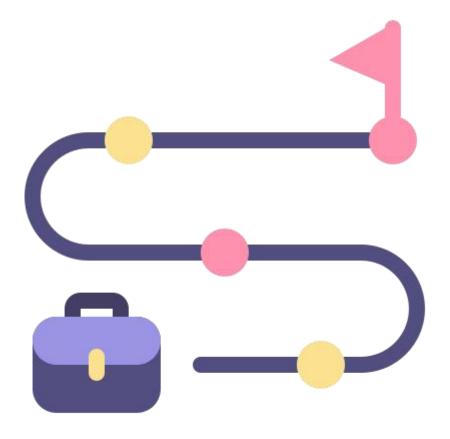


Student name:	Student 1: Abdulqadoos malik					
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Faculty:	Computing Science					
Course:	BSCH/BSCO/EXCH		Stage/year:	2		
Subject:	Software Development 2					
Study Mode:	Full time	\mathfrak{A}		Part-time		
Lecturer Name:	Gemma Deery					
Assignment Title:	Review 3					
Date due:	27/04/2023					
Date submitted:						
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Please note: Students **MUST** retain a hard / soft copy of **ALL** assignments as well as a receipt issued and signed by a member of Faculty as proof of submission.

Milestone Report



Student 1 name:	Student 1 number:
Student 2 name:	Student 2 number:
Student 3 name:	Student 3 number:

Software Development 2 Milestone Review 3 – 20%

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Versioning Approach

Development Approach

Milestone 1

Goals
Junit Tests
Commit Logs
Full Log Details

Milestone 2

Goals
Junit Tests integration
Commit Lists and Branches Trees
Full Log Details

Milestone 3

Goals
Junit Tests integration
Commit Lists and Branches Trees
Full Log Details

Collaboration

Please list the contributions made by each student for this iteration.

- Each student is expected to make equal contributions
- Each student will be marked according to his/her contribution
- You must have relevant comment on all code and messages on all commits

Student 1:

```
package firstpackage;
•import javax.swing.*;
 import javax.swing.text.BadLocationException;
 import java.awt.*;
 import java.awt.event.*;
 public class GUIchatbot extends JFrame {
     private JPanel chatPanel;
     private JTextField userInputField;
     private JTextArea chatbotMessages;
     private JButton sendButton;
     private JButton clearButton;
     private JScrollPane scrollPane;
     private static final int MAX_MESSAGES = 100;
     public GUIchatbot() throws BadLocationException {
         chatPanel = new JPanel();
         chatPanel.setLayout(new BorderLayout());
chatbotMessages = new JTextArea();
         chatbotMessages.setEditable(false);
         scrollPane = new JScrollPane(chatbotMessages);
         userInputField = new JTextField();
         sendButton = new JButton("Send");
         clearButton = new JButton("Clear");
         JPanel inputPanel = new JPanel(new BorderLayout());
         inputPanel.add(userInputField, BorderLayout.CENTER);
         inputPanel.add(sendButton, BorderLayout.EAST);
         inputPanel.add(clearButton, BorderLayout.WEST);
         chatPanel.add(scrollPane, BorderLayout.CENTER);
         chatPanel.add(inputPanel, BorderLayout.SOUTH);
         catTitle("ChatRot").
                                                             Writab
```

```
setTitle("ChatBot");
setSize(500, 500);
setDefaultCloseOperation(EXIT_ON_CLOSE);
add(chatPanel);
sendButton.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        sendMessage();
});
clearButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        clearMessages();
});
userInputField.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        sendMessage();
});
// Add welcome message
appendMessage("Welcome to ChatBot!");
userInputField.requestFocus();
```

```
private void sendMessage() throws BadLocationException {
    String userInput = userInputField.getText().trim();
    if (!userInput.isEmpty()) {
    // Call the chatbot's method to generate a response
         String chatbotResponse = ChatBot.generateResponse(userInput);
         // Append the user's message to the chat history
appendMessage("You: " + userInput);
         appendMessage("ChatBot: " + chatbotResponse);
         userInputField.setText("");
         userInputField.requestFocus();
    }
3
private void clearMessages() throws BadLocationException {
    chatbotMessages.setText("");
    appendMessage("Chat history cleared.");
}
private void appendMessage(String message) throws BadLocationException {
    if (chatbotMessages.getLineCount() >= MAX_MESSAGES) {
         // Remove the oldest message to keep the chat history from getting too long
int end = chatbotMessages.getLineEndOffset(0);
         chatbotMessages.replaceRange("", 0, end);
    chatbotMessages.append(message + "\n");
    JScrollBar vertical = scrollPane.getVerticalScrollBar();
    vertical.setValue(vertical.getMaximum());
}
```

```
public class ChatBot {
    public static String generateResponse(String userInput) {
        String response = "";
        if (userInput.toLowerCase().contains("hello") || userInput.toLowerCase().contains("hi")) {
            response = "Hi There!";
        } else if (userInput.toLowerCase().contains("how are you")) {
            response = "I'm doing well, thanks for asking.";
        } else if (userInput.toLowerCase().contains("what is your name")) {
            response = "My name is ChatBot.";
        }else if (userInput.toLowerCase().contains("who is ian")) {
            response = "he is a legend";
        else {
            response = "I'm sorry, I don't understand. Can you please rephrase?";
        return response;
    3
}
```

2nd try

```
package firstpackage;
oimport javax.swing.*;
 public class GUIchatbot extends JFrame {
             private JPanel chatPanel;
             private JTextField userInputField;
             private JTextArea chatbotMessages;
             private JButton sendButton;
             public GUIchatbot() {
                 chatPanel = new JPanel();
                 chatPanel.setLayout(new BorderLayout());
                 chatbotMessages = new JTextArea();
                 chatbotMessages.setEditable(false);
                 JScrollPane scrollPane = new JScrollPane(chatbotMessages);
                 userInputField = new JTextField();
                 sendButton = new JButton("Send");
                 chatPanel.add(scrollPane, BorderLayout.CENTER);
                 JPanel inputPanel = new JPanel(new BorderLayout());
                 inputPanel.add(userInputField, BorderLayout.CENTER);
                 inputPanel.add(sendButton, BorderLayout.EAST);
                 chatPanel.add(inputPanel, BorderLayout.SOUTH);
                 setTitle("ChatBot");
                 setSize(500, 500);
                 setDefaultCloseOperation(EXIT_ON_CLOSE);
                 add(chatPanel);
                 sendButton.addActionListener(new ActionListener() {
```

```
Informerinio.... A Charborjava A Gornarborjava A Charborjava Inpurraneriauu(Senuburton, boruertayout.casi),
                                                             M VEWDIAIE HIR
    chatPanel.add(inputPanel, BorderLayout.SOUTH);
    setTitle("ChatBot");
    setSize(500, 500);
    setDefaultCloseOperation(EXIT_ON_CLOSE);
    add(chatPanel);
    sendButton.addActionListener(new ActionListener() {
        @Override
        public void actionPerformed(ActionEvent e) {
            String userInput = userInputField.getText();
            String chatbotResponse = ChatBot.generateResponse(userInput);
            // Append the chatbot's response to the chat panel
            chatbotMessages.append("You: " + userInput + "\n");
            chatbotMessages.append("ChatBot: " + chatbotResponse + "\n");
            // Clear the user input field
            userInputField.setText("");
    });
}
public static void main(String[] args) {
    GUIchatbot chatBot = new GUIchatbot();
    chatBot.setVisible(true);
                  Writable
                                      Smart Insert
                                                          19 · 14 · 466
```

Student 2:

Student 3:

Appendix