



DEFENSA HITO 4

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PROGRAMACION III

Codigo Main Frame

```
@Component
public class MainFrame extends JFrame{
    @Autowired
    private EmptyPanel emptyPanel;
    @Autowired
    private AlphetPanel alphetPanel;
    @Autowired
    private ButtonPanel panelImages;

    public MainFrame() {
        this.setTitle("PROGRA III 2020");
        this.setBounds(300, 200, 800, 600);
        this.setBackground(Color.blue);
        this.setLayout(new GridLayout(2, 0));
    }

    @PostConstruct
    public void createPanelsMainFrame() {
        JPanel container = new JPanel();
        container.setLayout(new FlowLayout());

        addPanels(container);

        this.add(container);
        this.setVisible(true);
    }
}
```

Código ButtonListener

```
public class ButtonListener implements ActionListener {
    @Override
    public void actionPerformed(ActionEvent e) {
        JButton currentButton = (JButton) e.getSource();
        JOptionPane.showMessageDialog(null, "Button Pressed -> "
+currentButton.getText());
    }
}
```

Codigo AlphabetPanel

```
@Component
public class AlphabetPanel extends JPanel{
    @Autowired
    private AlphabetService alphabetService;

    public AlphabetPanel() {
        System.setProperty("butBackColor", "#C1ECF1");
        System.setProperty("textColor", "#0B0BF6");
        this.setPreferredSize(new Dimension(600, 190));
        this.setBackground(Color.blue);
        this.setLayout(new GridLayout(3, 0));
    }
}
```

Codigo AlphabetPanel

```
@PostConstruct
    public void createButtonsLetters() {
        java.util.List<AlphabetModel> firstRow =
alphabetService.getAllLettersFirst();
        String[] titleAlphabet =
firstRow.get(0).getLetter().split(",");
        JPanel panelQ_P = this.createPanelButton(titleAlphabet);
        this.add(panelQ_P);

        java.util.List<AlphabetModel> secondRow =
alphabetService.getAllLettersSecond();
        String[] titleAlphabet1 =
secondRow.get(0).getLetter().split(",");
        JPanel panelA_L = this.createPanelButton(titleAlphabet1);
        this.add(panelA_L);

        List<AlphabetModel> threeRow =
alphabetService.getAllLettersThree();
        String[] titleAlphabet2 =
threeRow.get(0).getLetter().split(",");
```

Codigo AlphabetPanel

```
public JPanel createPanelButton(String[] titleAlphabet){
    JPanel mainPanel = new JPanel();
    mainPanel.setLayout(new FlowLayout());
    ButtonListener listener = new ButtonListener();

    for(String title : titleAlphabet){
        JButton button = new JButton(title);
        button.setPreferredSize(new Dimension(55, 40));
        button.addActionListener(listener);
        button.setBackground(Color.getColor("butBackColor"));
        button.setForeground(Color.getColor("textColor"));
        button.setBorder(BorderFactory.createEmptyBorder());
        button.setFont(Util.FONT_TEXT);
        mainPanel.add(button);
    }
    return mainPanel;
}
```

Codigo EmptyPanel

```
public class EmptyPanel extends JPanel {  
    public EmptyPanel() {  
        this.setPreferredSize(new Dimension(500,100));  
        this.setBackground(Color.CYAN);  
        this.setLayout(new GridLayout(2, 1));  
    }  
}
```

Codigo Util

```
public class Util {  
    public static final Font FONT_TEXT = new Font("Arial", Font.BOLD,  
28);  
  
    private static URL getResourcePath(String nameImg) {  
        return Util.class.getClassLoader().getResource(nameImg);  
    }  
  
    public Util(){}  
}
```


Codigo AlphabetModel

```
@Table(name = "Alphabet")
public class AlphabetModel {
    @javax.persistence.Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    private int Id;

    @Column(name = "letter", length = 200, nullable = false)
    private String letter;

    @Column(name = "typer", length = 10, nullable = false)
    private String typer;

    public AlphabetModel() {

    }
}
```

Codigo AlphabetModel

```
public AlphabetModel(String letter, String typer) {  
    this.letter = letter;  
    this.typer = typer;  
}  
  
public String getTyper() {  
    return typer;  
}  
  
public void setTyper(String typer) {  
    this.typer = typer;  
}  
  
public Integer getId() {  
    return Id;  
}
```

Codigo AlphabetModel

```
public void setId(Integer id) {  
    Id = id;  
}  
  
public String getLetter() {  
    return letter;  
}  
  
public void setLetter(String letter) {  
    this.letter = letter;  
}  
}
```

Codigo ButtonModel

```
@Entity
@Table(name= "Button")
public class ButtonModel {
    @javax.persistence.Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    private Integer Id;

    @Column(name = "Ingles", length = 200, nullable = false)
    private String english;

    @Column(name = "Portugues", length = 200, nullable = false)
    private String portugues;

    @Column(name = "Word", length = 200, nullable = false)
    private String word;
```

Codigo ButtonModel

```
public ButtonModel() {  
  
}  
  
public ButtonModel(String english, String portugues, String word) {  
    this.english = english;  
    this.portugues = portugues;  
    this.word = word;  
}  
  
public ButtonModel(String english, String first) {  
  
}
```

Codigo ButtonModel

```
public Integer getId() {  
    return Id;  
}  
  
public void setId(Integer id) {  
    Id = id;  
}  
  
public String getEnglish() {  
    return english;  
}
```

Codigo ButtonModel

```
public void setEnglish(String english) {
    this.english = english;
}

public String getPortugues() {
    return portugues;
}

public void setPortugues(String portugues) {
    this.portugues = portugues;
}

public String getWord() {
    return word;
}

public void setWord(String word) {
    this.word = word;
}
}
```

Codigo AlpgabetRepository

```
public interface AlpgabetRepository extends
JpaRepository<AlpgabetModel, Integer> {
    @Query(value = "select * from alpgabet where typer = 'first'",
nativeQuery = true)
    public List<AlpgabetModel> getFirstRow();

    @Query(value = "select * from alpgabet where typer = 'second'",
nativeQuery = true)
    public List<AlpgabetModel> getSecondRow();

    @Query(value = "select * from alpgabet where typer = 'three'",
nativeQuery = true)
    public List<AlpgabetModel> getThreeRow();
}
```


Código ButtonRepository

```
public interface ButtonRepository extends JpaRepository {  
    @Query(value = "SELECT * FROM dictionary WHERE word =  
:wordSelected", nativeQuery = true)  
    public ButtonModel getWordTranslate(@Param("wordSelected") String  
wordSelected);  
}
```

Codigo Main

```
@SpringBootApplication
public class SergioCApplication {

    @Autowired
    private ButtonService buttonService;
    @Autowired
    private AlphabetService alphabetService;

    public static void main(String[] args) {
        //SpringApplication.run(SwingApplication.class, args);
        SpringApplicationBuilder springApp = new
SpringApplicationBuilder(SergioCApplication.class);
        springApp.headless(false);
        springApp.run(args);
    }
    @PostConstruct
    public void insertDataToDataBase(){
        buttonService.saveData();
        alphabetService.saveData();
    }
}
```