

TO DO

WORK IN PROGRESS

DONE

TESTING

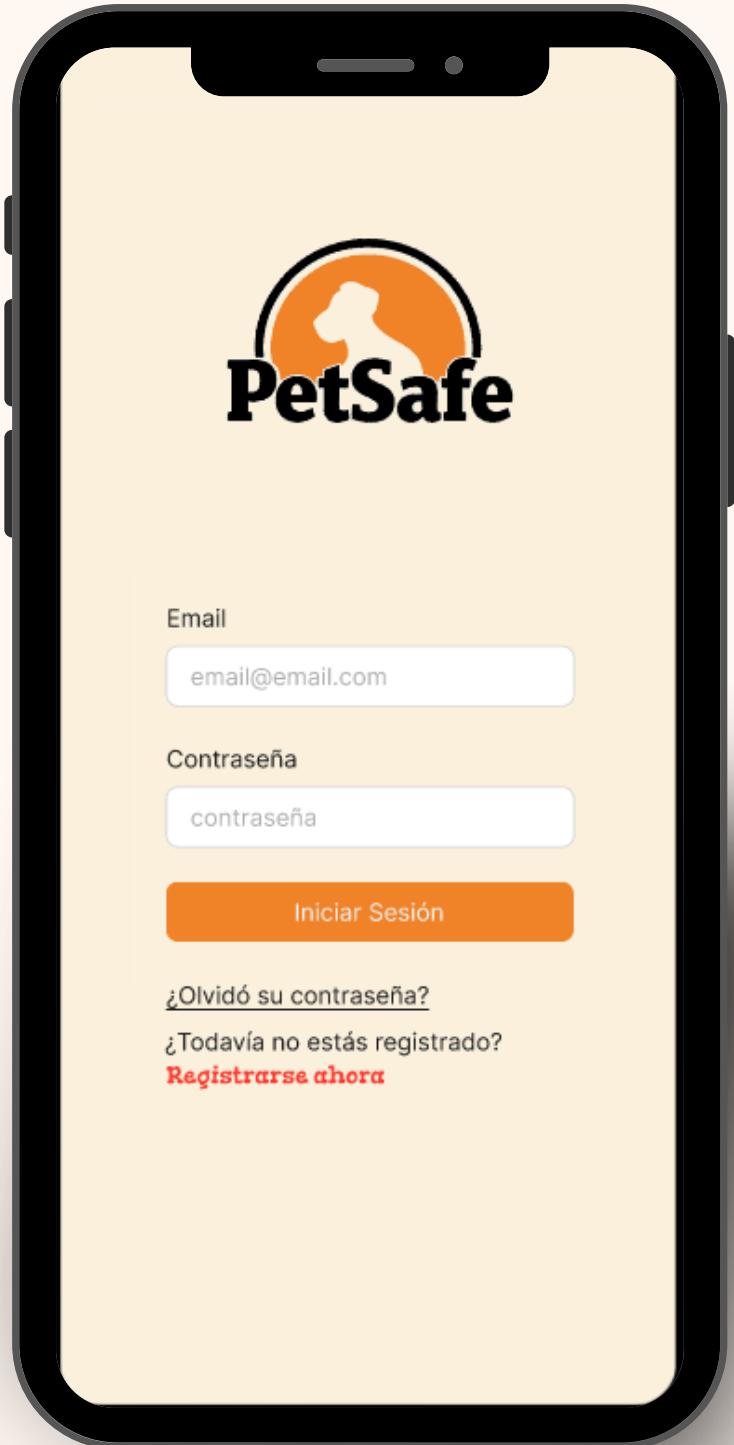
READY FOR DEPLOY

READY

# PETSAFE

Aspects worked on in these two weeks of the project

# PROJECT AREA



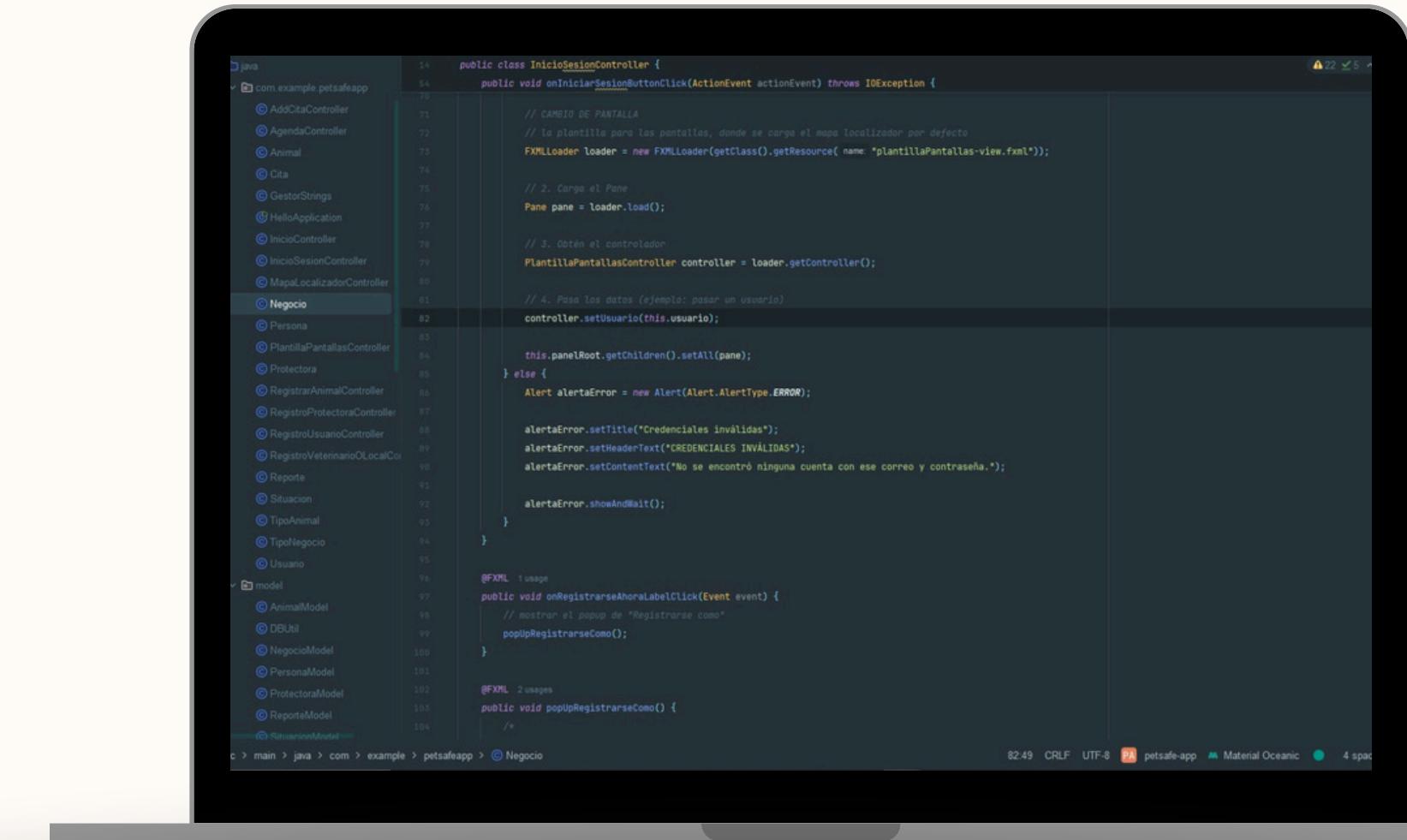
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- 02 Development Environments
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# FIRST WEEK

# PROGRAMMER

JavaFX was used to develop the graphical interface, taking advantage of its capabilities for creating desktop applications with dynamic visual presentations. The project structure was implemented in Java using the Visual Scene Builder tool. The model and POJO classes were created. In addition, some of the system's most complex views, such as the implementation of the interactive map, were researched and developed.



The screenshot shows an IDE interface with a dark theme. On the left is a file tree showing a package structure under 'java': com.example.petsafeapp (containing AddCitaController, AgendaController, Animal, Cita, GestorStrings, HelloApplication, InicioController, InicioSessionController, MapaLocalizadorController, Negocio, Persona, PlantillaPantallasController, Protectora, RegistrarAnimalController, RegistroProtectoraController, RegistroUsuarioController, RegistroVeterinarioLocalController, Reporte, Situacion, TipoAnimal, TipoNegocio, Usuario); and model (containing AnimalModel, DBUtil, NegocioModel, PersonaModel, ProtectoraModel, ReporteModel, ReservaModel). The main editor window displays Java code for the 'InicioSessionController' class:

```
public class InicioSessionController {
    public void onIniciarSessionButtonClicked(ActionEvent actionEvent) throws IOException {
        // CAMBIO DE PANTALLA
        // 1. Carga la plantilla para las pantallas, donde se carga el mapa localizador por defecto
        FXMLLoader loader = new FXMLLoader(getClass().getResource("plantillaPantallas-view.fxml"));

        // 2. Carga el Pane
        Pane pane = loader.load();

        // 3. Obtén el controlador
        PlantillaPantallaController controller = loader.getController();

        // 4. Pasa los datos (ejemplo: pasar un usuario)
        controller.setUsuario(this.usuario);

        this.panelRoot.getChildren().setAll(pane);
    } else {
        Alert alertaError = new Alert(Alert.AlertType.ERROR);

        alertaError.setTitle("Credenciales inválidas");
        alertaError.setHeaderText("CREDENCIALES INVÁLIDAS");
        alertaError.setContentText("No se encontró ninguna cuenta con ese correo y contraseña.");
        alertaError.showAndWait();
    }
}

@FXML - 1 usage
public void onRegistrarseAhorralabelClicked(Event event) {
    // mostrar el popup de "Registrarse como"
    popUpRegistrarseComo();
}

@FXML - 2 usages
public void popUpRegistrarseComo() {
    // ...
}
```

At the bottom of the screen, the status bar shows: 82.49 CRLF UTF-8 petsafe-app Material Oceanic 4 spaces.

Programmer

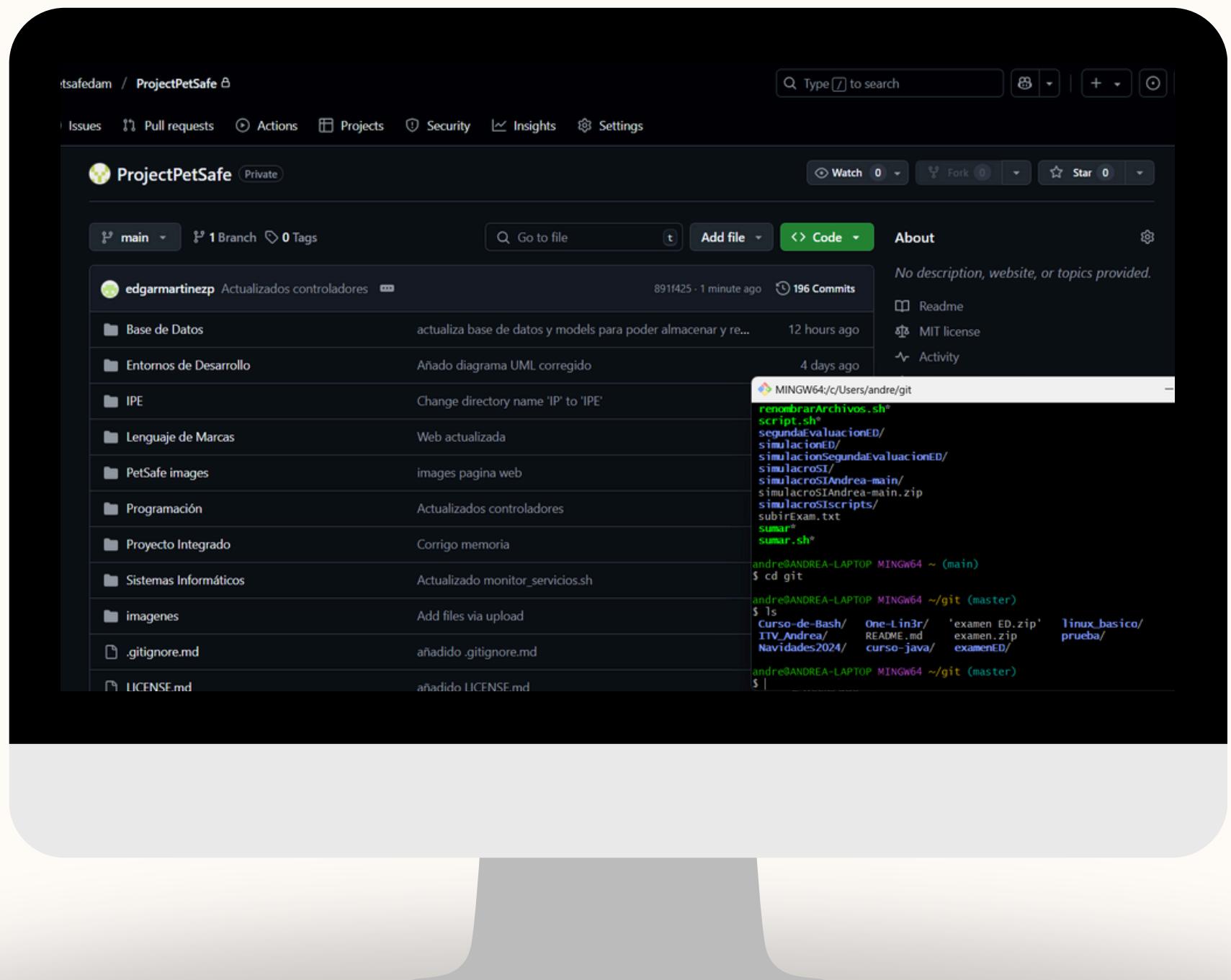
Development  
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# DEVELOPMENT ENVIRONMENTS

The mockup required for app visualization was created prior to application development. The SCRUM methodology was used, with a daily meeting and minutes taken along with an image of the daily dashboard. We also used GitHub for collaborative work, creating a repository and creating the README file using Markdown. The class diagram was also created.

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# MARKUP LANGUAGE

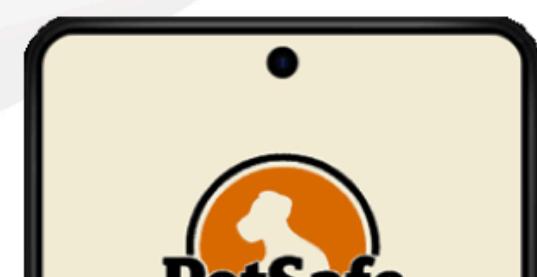
We created the website in Figma and through code with HTML5 and CSS3 standards, we made the detailed description of the functionalities and characteristics, we took a group photo and posted a brief individual presentation of each team member on the website, with an individual photo, we created a functional contact form and the website was responsive, adapting to all types of devices.



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CON TU MASCOTA

Descubre veterinarias, protectoras de animales y locales pet-friendly cerca de ti. PetSafe te ayuda a encontrar todo lo que necesitas para brindarles el mejor cuidado a tu mascota.

DESCARGALO AHORA



# IT Systems

## Web hosting service

Key infrastructure components of the project were deployed and configured. Was successfully hosted on a dedicated server environment, this included installing the server's operating system image, deploying essential libraries and applications.



# IT Systems

1

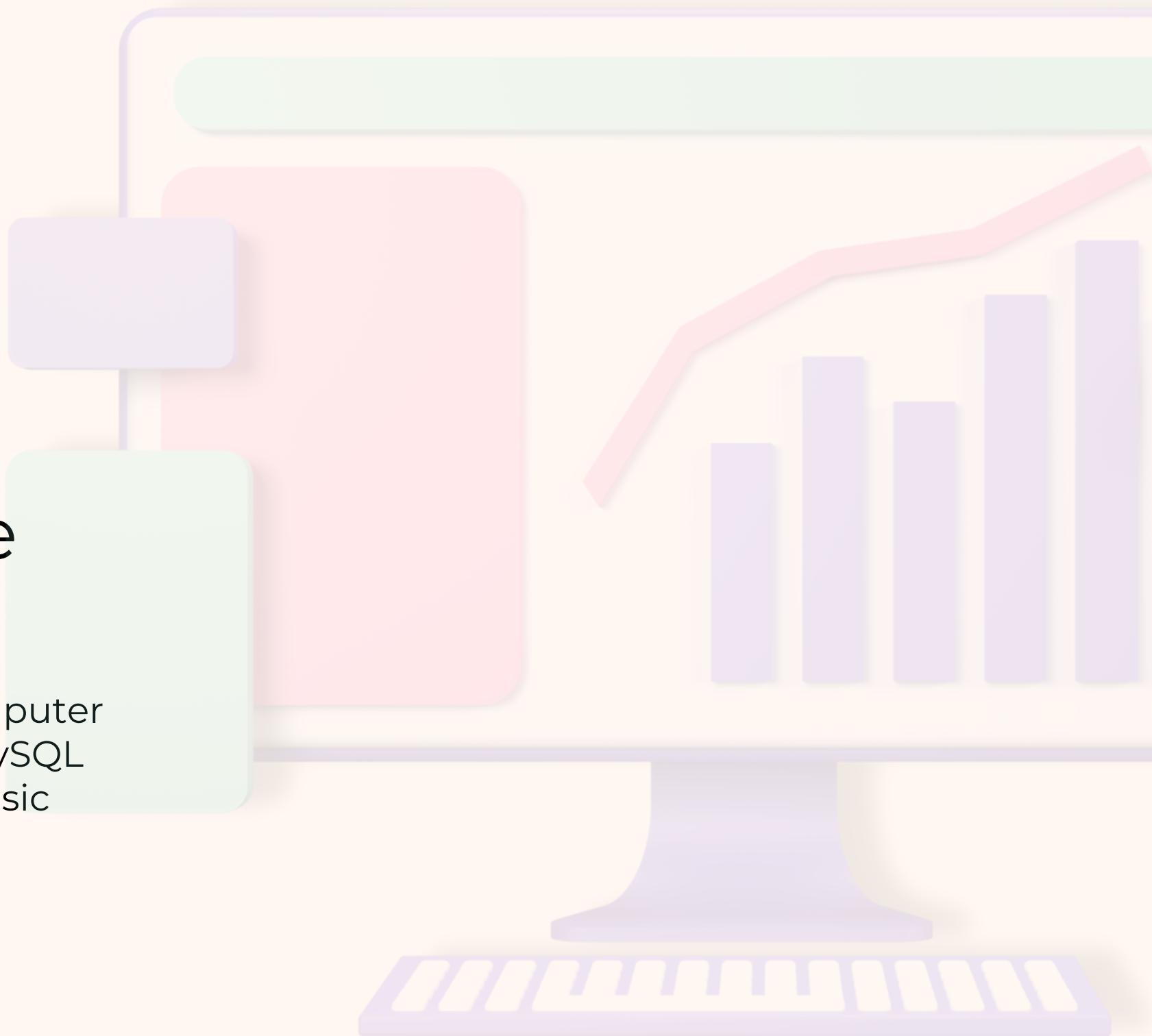
## Web hosting service

Key infrastructure components of the project were deployed and configured. Was successfully hosted on a dedicated server environment, this included installing the server's operating system image, deploying essential libraries and applications.

2

## MySQL Service

Additionally, within the Computer Systems module scope, a MySQL service was installed with basic security settings.



# IT Systems

1

## Web hosting service

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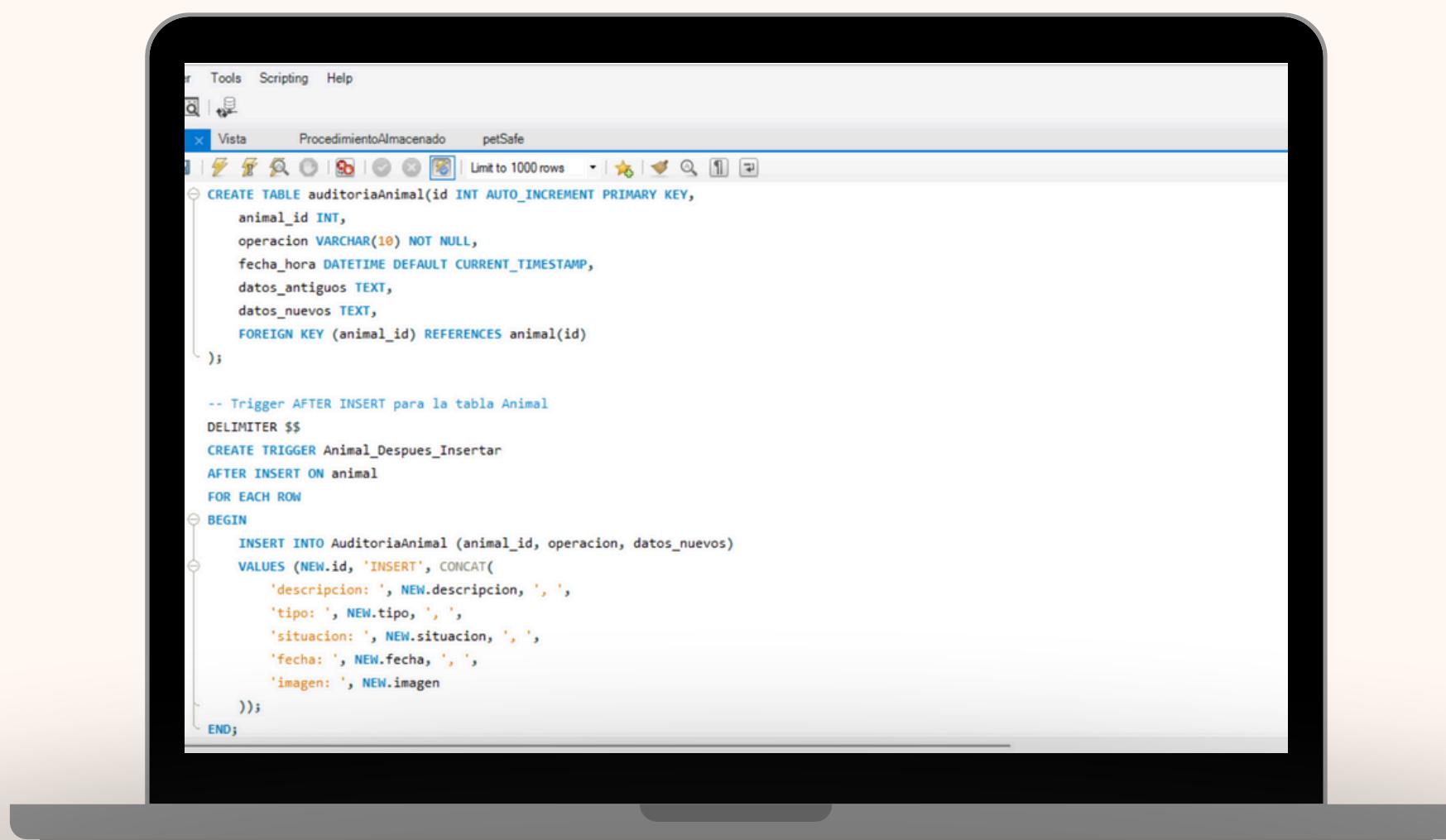
## MySQL Service

Additionally, within the Computer Systems module scope, a MySQL service was installed with basic security settings.

3

## Server maintenance scripts and Docker Compose

To maintain server stability and performance, several automated maintenance scripts were developed: periodic database backups to cloud storage services. Also Docker Compose was used to orchestrate the configuration of multiple containers.



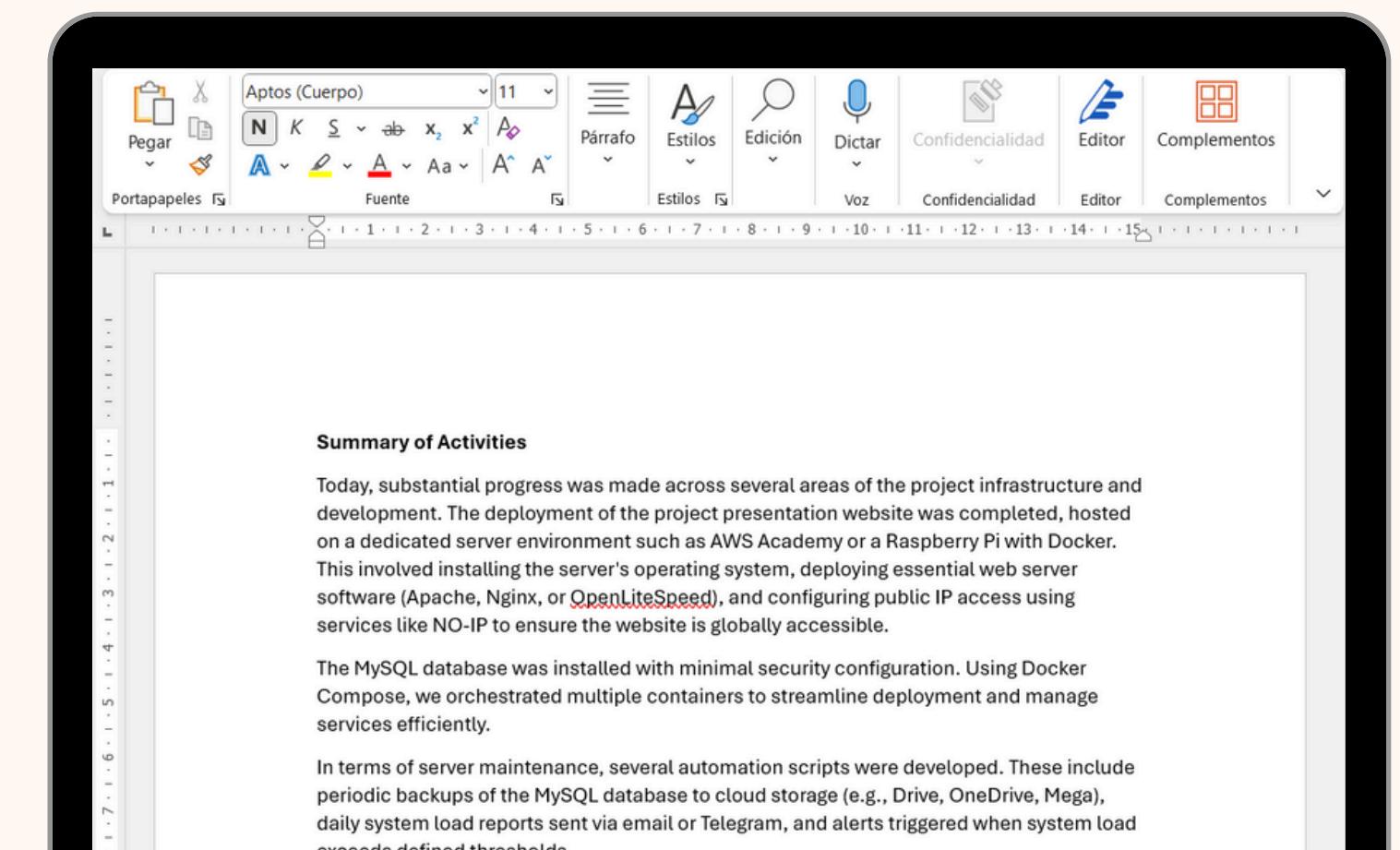
# DATABASE

The conceptual design, logical design, and physical design have been created. The Entity-Relationship model has been designed by converting it to tables and normalizing the database. A view, stored procedure, and the necessary triggers have been created for auditing, field validation, and database backups.



# IPE 1

A daily report has been maintained to document team progress and analyze any conflicts that arose. It includes the actions taken to resolve disagreements and an evaluation of their effectiveness in improving collaboration.



The screenshot shows a Microsoft Word document window. The ribbon menu at the top includes tabs for 'Portapapeles' (Clipboard), 'Fuente' (Font), 'Estilos' (Styles), 'Edición' (Edit), 'Voz' (Voice), 'Confidencialidad' (Confidentiality), 'Editor' (Editor), and 'Complementos' (Add-ins). The main content area contains a section titled 'Summary of Activities' with the following text:

Today, substantial progress was made across several areas of the project infrastructure and development. The deployment of the project presentation website was completed, hosted on a dedicated server environment such as AWS Academy or a Raspberry Pi with Docker. This involved installing the server's operating system, deploying essential web server software (Apache, Nginx, or OpenLiteSpeed), and configuring public IP access using services like NO-IP to ensure the website is globally accessible.

The MySQL database was installed with minimal security configuration. Using Docker Compose, we orchestrated multiple containers to streamline deployment and manage services efficiently.

In terms of server maintenance, several automation scripts were developed. These include periodic backups of the MySQL database to cloud storage (e.g., Drive, OneDrive, Mega), daily system load reports sent via email or Telegram, and alerts triggered when system load exceeds defined thresholds.

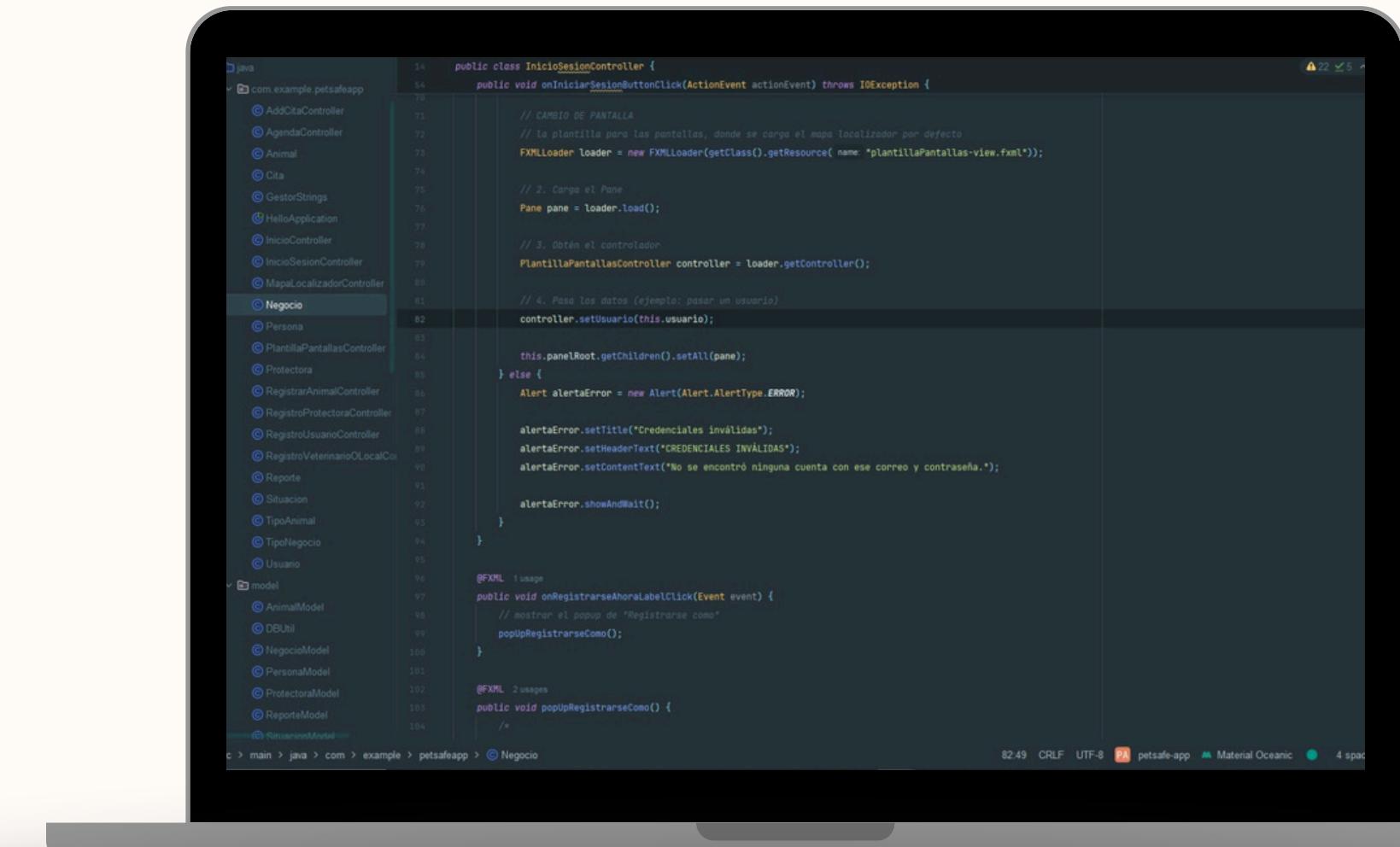


# SECOND

## WEEK

# PROGRAMMER

During this week we have continued with the creation of classes in the project, implementing the controllers and the views. We have achieved the functionality of the map and the insertion of images in the popups. Finally, we have successfully completed the functionalities we had planned.



The screenshot shows a Java code editor with a dark theme. On the left is a file tree showing packages like com.example.petsafeapp and sub-packages like Negocio, Persona, and Reporte. The main pane displays the following Java code:

```
public class InicioSesionController {
    public void onIniciarSesionButtonClicked(ActionEvent actionEvent) throws IOException {
        // CAMBIO DE PANTALLA
        // 1. Carga la plantilla para las pantallas, donde se carga el mapa localizador por defecto
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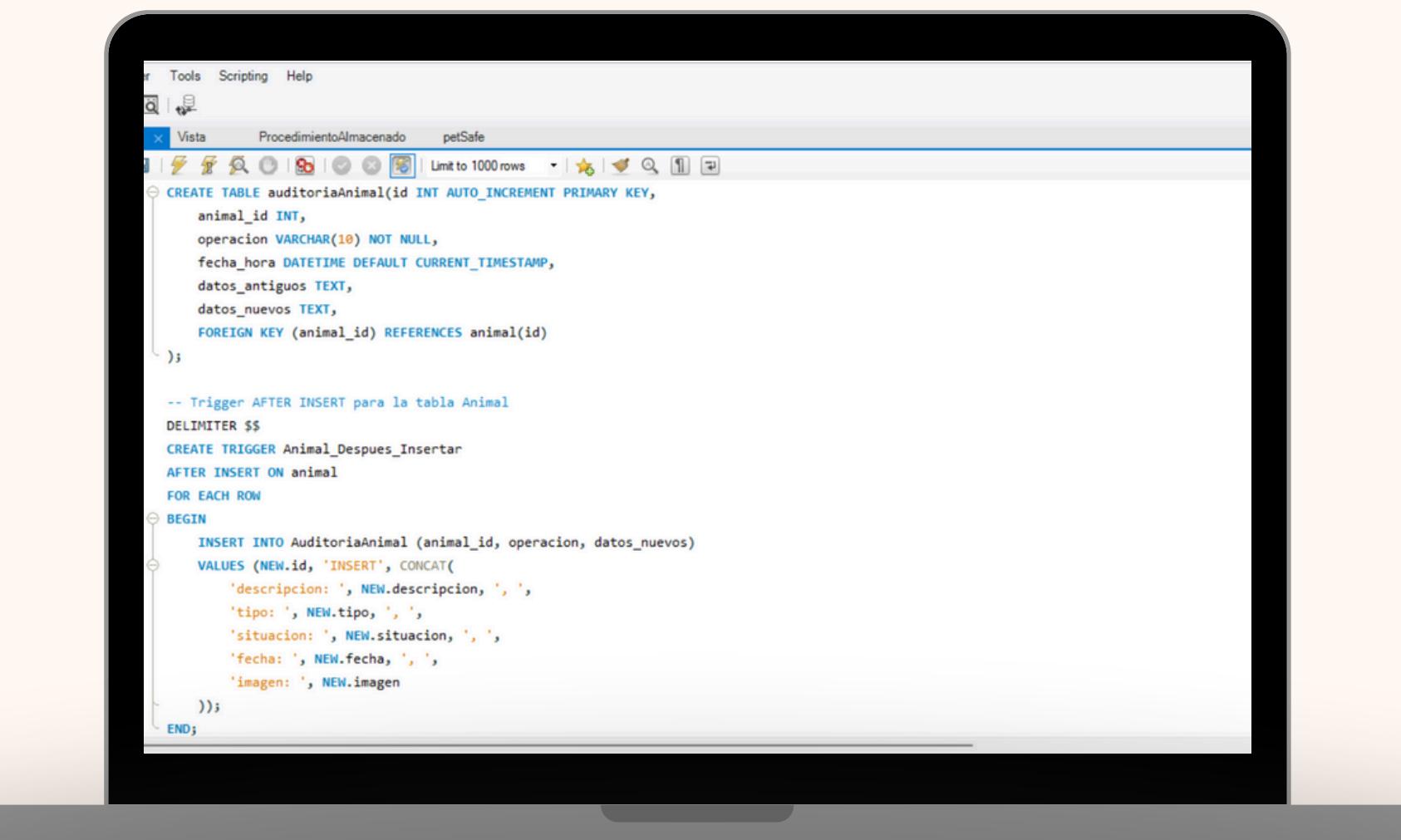
        this.panelRoot.getChildren().addAll(pane);
    } else {
        Alert alertaError = new Alert(Alert.AlertType.ERROR);

        alertaError.setTitle("Credenciales inválidas");
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# DATABASE

We have modified the database to be able to save images as LONGBLOB, added tables to complement appointment, finished with the triggers and inserted records from the application.



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# IPE 1

The organizational chart of the group has been created, showing the functions of each member.

We have finished with the presentation for the defense of the project.



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