



El futuro digital
es de todos

MinTIC



Exportar informe a Excel en Java

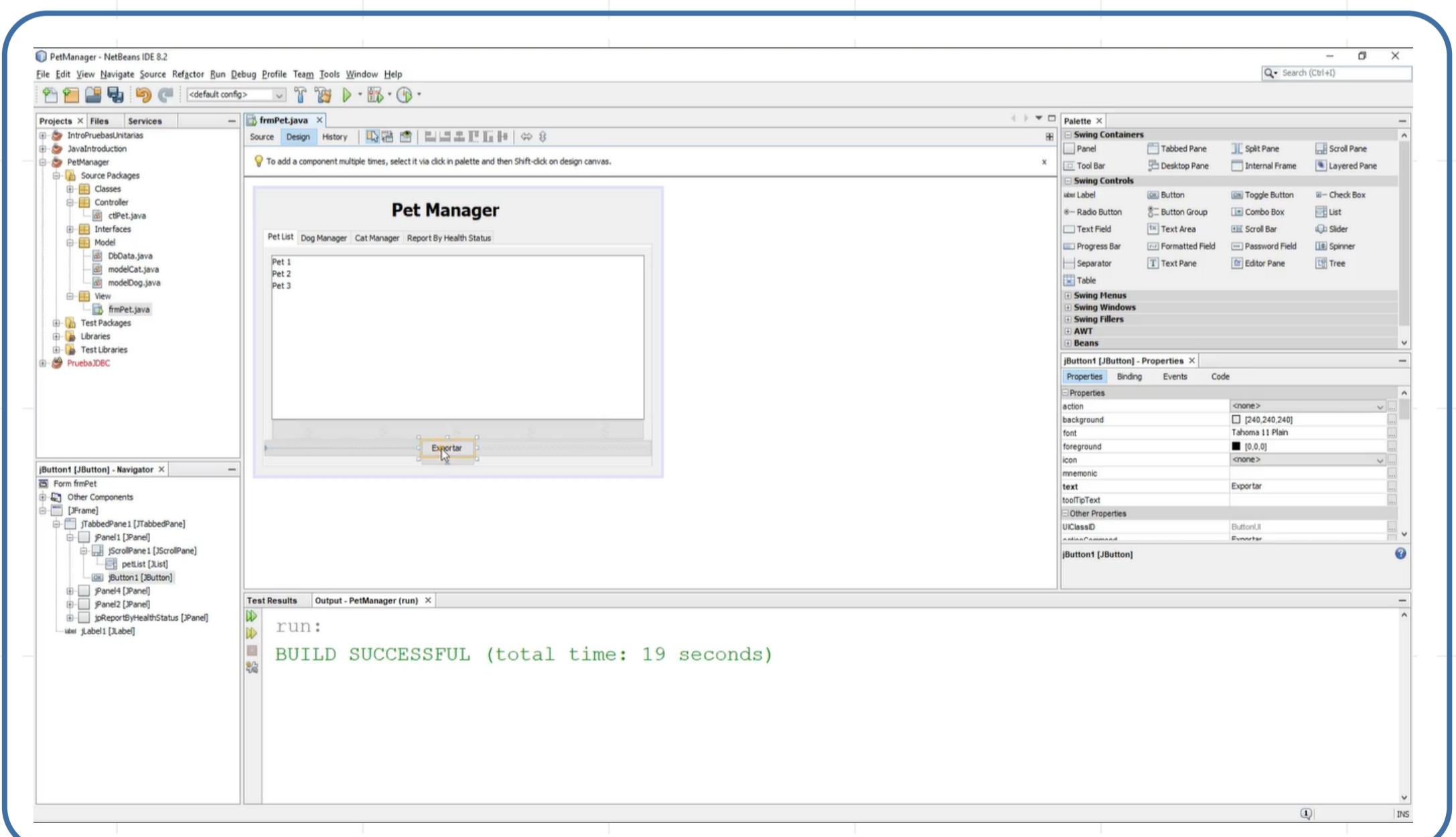


Universidad de Caldas

Hola:

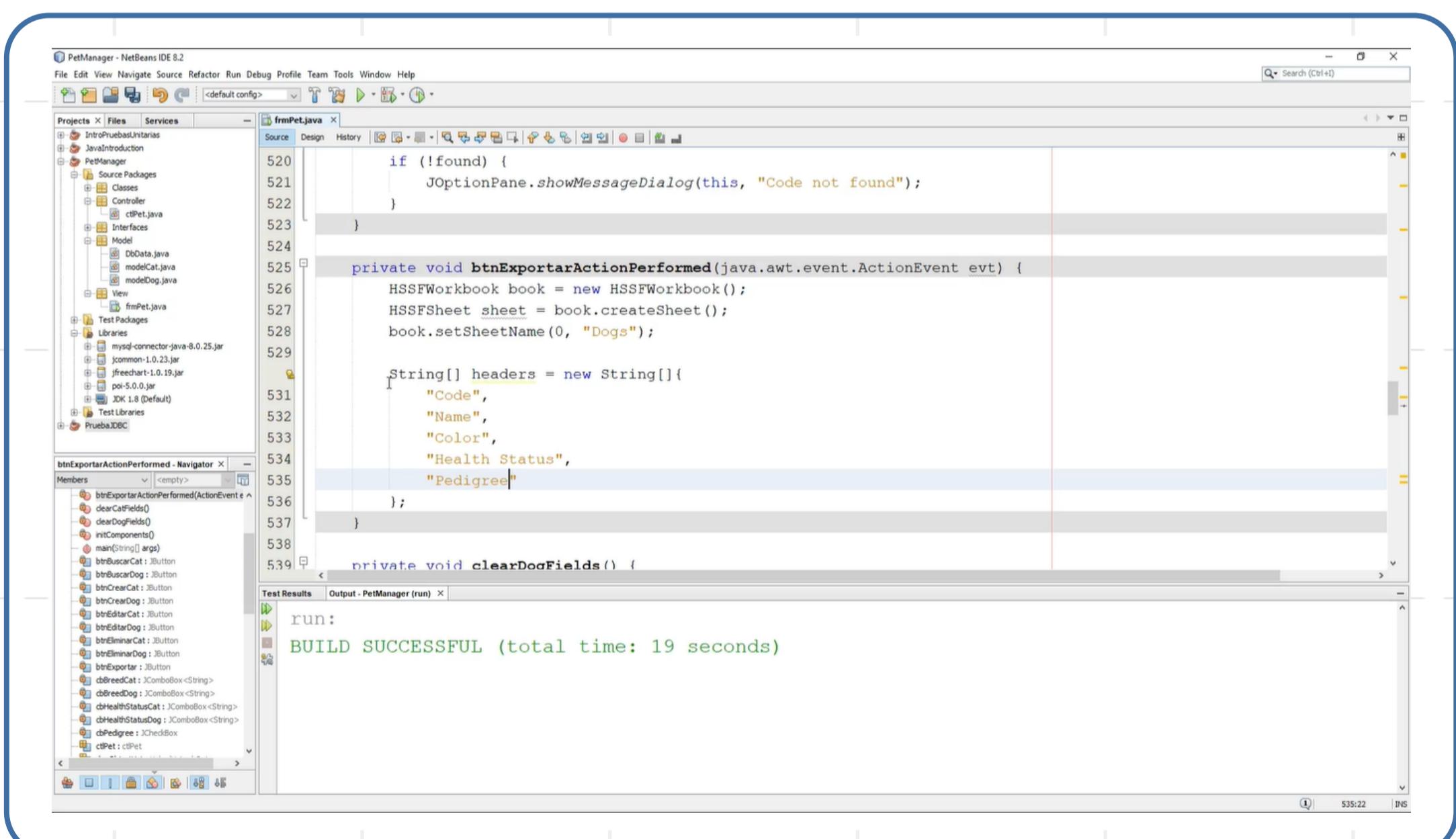
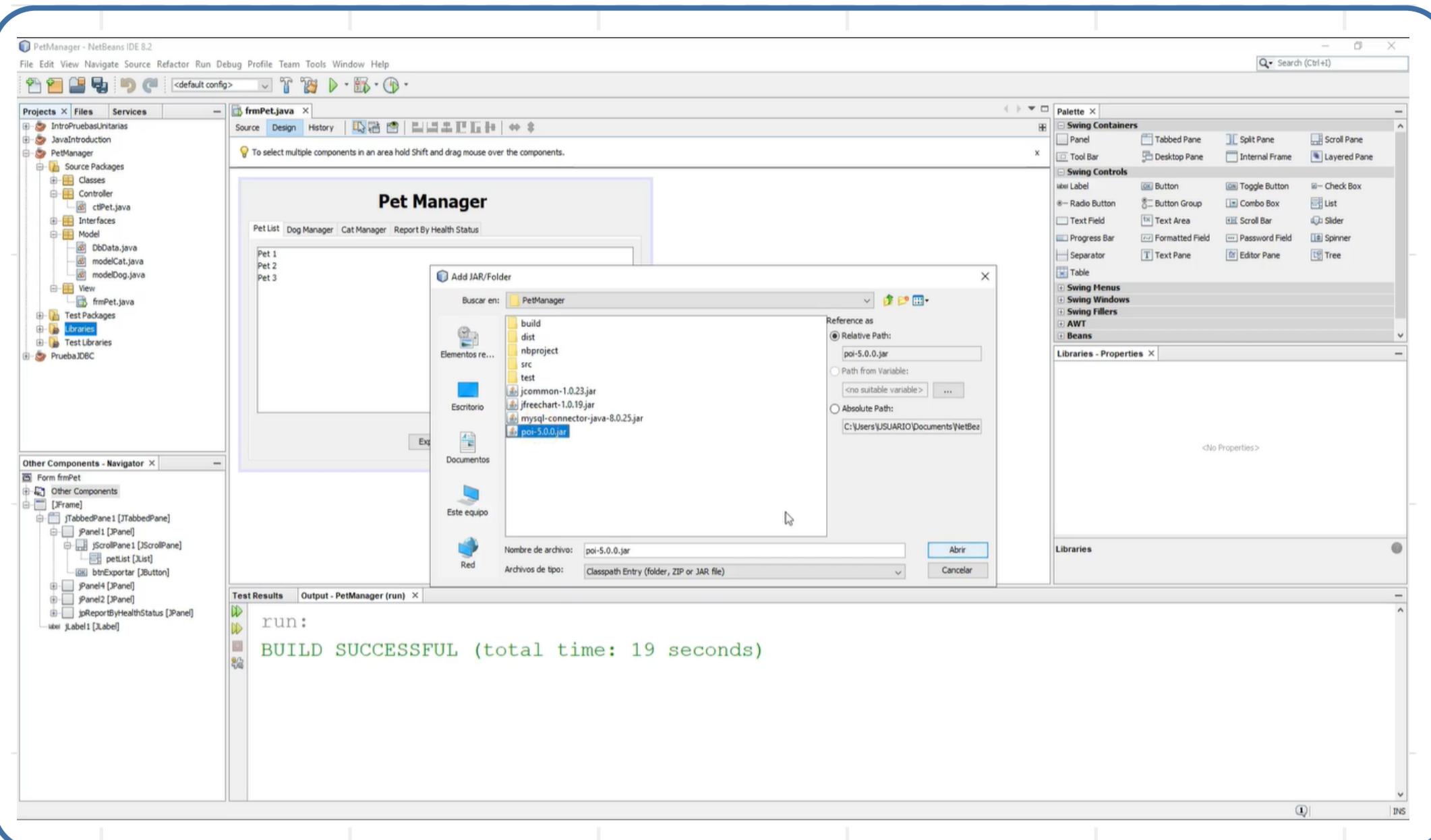
A pesar de conocer cómo generar gráficas dinámicas a partir de la información almacenada en las bases de datos, muchas veces es necesario exportar dicha información a archivos en formatos específicos como PDF, CSV, o Excel. En esta ocasión, mediante el apoyo de la librería apache POI se exportará información relevante a un archivo de excel mediante instrucciones de programación en lenguaje Java. De esta manera se continuará en la misma línea, donde se ha demostrado que con el apoyo de librerías y frameworks se puede reducir el tiempo de desarrollo de una aplicación.

Video de la segunda parte de la implementación de la gráfica con JFreechart.



The screenshot shows the Apache POI website. At the top, there's a navigation bar with links for Home, Help, Component APIs, and Getting Involved. Below the navigation is a sidebar with sections like Overview, Home, Download, Changelog, Javadocs, Text Extraction, Encryption support, Case Studies, Related projects, Legal, and Apache Wide. A banner for APACHECON 2021 is visible. The main content area features the Apache logo and the Apache POI logo (feathers and coffee cup). It includes a search bar and a note about the last publication date (01/19/2021 18:27:06). The central part of the page is titled "Apache POI - the Java API for Microsoft Documents" and contains a "Project News" section with several entries. One entry is for "20 January 2021 - POI 5.0.0 available". Another entry is for "13 January 2021 - CVE-2021-23926 - XML External Entity (XXE) Processing in Apache XMLBeans versions prior to 3.0.0". There are also sections for "16 October 2020 - XMLBeans 4.0.0 available" and "20 October 2019 - CVE-2019-12415 - XML External Entity (XXE) Processing in Apache POI versions prior to 4.1.1".

The screenshot shows the Apache Download Mirrors page for the Apache POI 5.0.0 release. The URL in the address bar is <https://www.apache.org/dyn/doser.lua/poi/release/bin/poi-bin-5.0.0-20210120.zip>. The page has a header with links for News, About, Make a Donation, The Apache Way, Join Us, Downloads, and a search icon. The Apache logo is on the left, and a "SUPPORT APACHE" button is on the right. The main content area starts with a note about mirror sites: "We suggest the following mirror site for your download: <https://downloads.apache.org/poi/release/bin/poi-bin-5.0.0-20210120.zip>". It also mentions other mirror sites and the importance of verifying file integrity using PGP signatures or hashes. Below this, there are sections for "HTTP" (with a link to the same download URL), "BACKUP SITES" (with a note about using backup mirrors), "BECOMING A MIRROR" (with a note about setting up new mirrors), and "VERIFY THE INTEGRITY OF THE FILES" (with instructions for verifying files using GPG or GPG). A code block shows the command: % gpg --import KEYS % gpg --verify downloaded_file.asc downloaded_file.



The screenshot shows the NetBeans IDE interface with the following details:

- Menu Bar:** File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help.
- Toolbar:** Standard NetBeans icons for file operations, search, and project management.
- Project Explorer:** Shows the project structure under "PetManager".
- Code Editor:** The current file is "frmPet.java". The code is as follows:

```
String[] headers = new String[]{  
    "Code",  
    "Name",  
    "Color",  
    "Health Status",  
    "Pedigree"  
};  
  
CellStyle headerCellStyle = book.createCellStyle();  
HSSFFont font = book.createFont();  
font.setBold(true);  
headerCellStyle.setFont(font);  
  
HSSFRow headersRow = sheet.createRow(0);  
for (int i = 0; i < 10; i++) {  
    String header = headers[i];  
    HSSFCell cell = headersRow.createCell(i);  
    cell.setCellStyle(headerCellStyle);  
    cell.setCellValue(header);  
}
```

- Navigator:** Shows methods for "btInExportarActionPerformed".
- Test Results:** Shows the build output: "run: BUILD SUCCESSFUL (total time: 19 seconds)".
- Status Bar:** "frmPet.java saved.", "540:11/6:111".

PetManager - NetBeans IDE 8.2

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Search (Ctrl+F)

Projects Files Services fmPet.java

Source Design History

546
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```
HSSFRow headersRow = sheet.createRow(0);
for (int i = 0; i < 10; i++) {
    String header = headers[i];
    HSSFCell cell = headersRow.createCell(i);
    cell.setCellStyle(headerCellStyle);
    cell.setCellValue(header);
}

for (int i = 0; i < dogObjectList.size(); i++) {
    HSSFRow row = sheet.createRow(i + 1);
    String code = dogObjectList.get(i).getCode();
    String name = dogObjectList.get(i).getName();
    String color = dogObjectList.get(i).getColor();
    String healthStatus = dogObjectList.get(i).getHealth_status();
    boolean pedigree = ((clsDog) dogObjectList.get(i)).isPedigree();
    String pedigreeString = pedigree ? "SI" : "NO";
}
```

btExportarActionPerformed - Navigator

Members <empty>

frmPet :: JFrame

- frmPet()
- Fillet()
- RefreshReportByHealthStatus()
- btnBuscarDogActionPerformed(ActionEvent)
- btnCrearDogActionPerformed(ActionEvent)
- btnEditorDogActionPerformed(ActionEvent)
- btnEliminarDogActionPerformed(ActionEvent)
- btExportarActionPerformed(ActionEvent)
- clearCatFields()
- clearDogFields()
- initComponents()
- main(String[] args)
- btnBuscarCat : JButton
- btnBuscarDog : JButton
- btnCrearCat : JButton
- btnCrearDog : JButton
- btnEditorCat : JButton
- btnEditorDog : JButton
- btnEliminarCat : JButton

Test Results Output - PetManager (run)

run:

BUILD SUCCESSFUL (total time: 19 seconds)

PetManager - NetBeans IDE 8.2

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Projects Files Services

frmPet.java frmPet.java

```

String healthStatus = dogObjectList.get(i).getHealth_status();
boolean pedigree = ((clsDog) dogObjectList.get(i)).isPedigree();
String pedigreeString = pedigree ? "SI" : "NO";
row.createCell(0).setCellValue(code);
row.createCell(1).setCellValue(name);
row.createCell(2).setCellValue(color);
row.createCell(3).setCellValue(healthStatus);
row.createCell(4).setCellValue(pedigreeString);
}
try {
    FileOutputStream file = new FileOutputStream("dog_list_report.xls");
    book.write(file);
    file.close();
} catch (FileNotFoundException ex) {
    Logger.getLogger(frmPet.class.getName()).log(Level.SEVERE, null, ex);
}
}

private void clearDogFields() {
}

Test Results Output x
run:
BUILD SUCCESSFUL (total time: 19 seconds)

```

Pet Manager

Pet List Dog Manager Cat Manager Report By Health Status

Firulais - 001 - Perro
Tobby - 002 - Perro
Pepe - 005 - Perro
Tiny - 006 - Perro
Patience - 555 - Perro
Cassady - 555 - Perro
Cassidy - 555 - Perro
Ulla - 556 - Perro
Reese - 555 - Perro
Cassidy - 555 - Perro
Joan - 555 - Perro

Exportar

Autoguardado dog_list_report.xls - Modo de compatibilidad

Archivo Inicio Insertar Disposición de página Fórmulas Datos Revisar Vista Ayuda

A1

Code	Name	Color	Health	St	Pedigree
001	Firulais	amarillo	Healthy	NO	
002	Tobby	Negro	Sick	SI	
005	Pepe	Blanco	Healthy	SI	
006	Tiny	Rojo	Healthy	SI	
555	Patience	Amarillo	Surgery	NO	
555	Cassady	Blanco	Healthy	SI	
555	Cassidy	Negro y Bl	Surgery	NO	
556	Ulla	Negro y Bl	Surgery	SI	
555	Reese	Amarillo	Surgery	SI	
555	Cassidy	Negro y Bl	Surgery	NO	
555	Jean	Café	Healthy	NO	
556	Ulla	Negro y Bl	Surgery	SI	
555	August	Blanco	Healthy	NO	
555	Reese	Amarillo	Surgery	SI	
556	Mari	Negro y Bl	Healthy	SI	
555	Cassady	Blanco	Healthy	SI	
555	Cassidy	Negro y Bl	Surgery	SI	
555	Jean	Café	Healthy	NO	
556	Ulla	Negro y Bl	Surgery	NO	

Dogs

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En esta ocasión se ha aprendido a obtener información de la base de datos y cómo generar un archivo de excel a partir de ella, que será importante para entregar informes o también para procesar información que será utilizada por otro sistema. Para poner en práctica este conocimiento adquirido es necesario resolver el reto de la semana y también revisar el material adicional. De esta manera finaliza el módulo de programación básica en Java.





**Mision
TIC2022**

The logo features the text "Mision TIC2022" in a bold, sans-serif font. The word "Mision" is in blue, "TIC" is in red, and "2022" is in blue. A red curved line starts from the top of the letter "i" in "Mision" and ends at the bottom of the letter "c" in "TIC". The background of the logo is a white circle with a gray halftone pattern, set against a dark red circular gradient.

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