

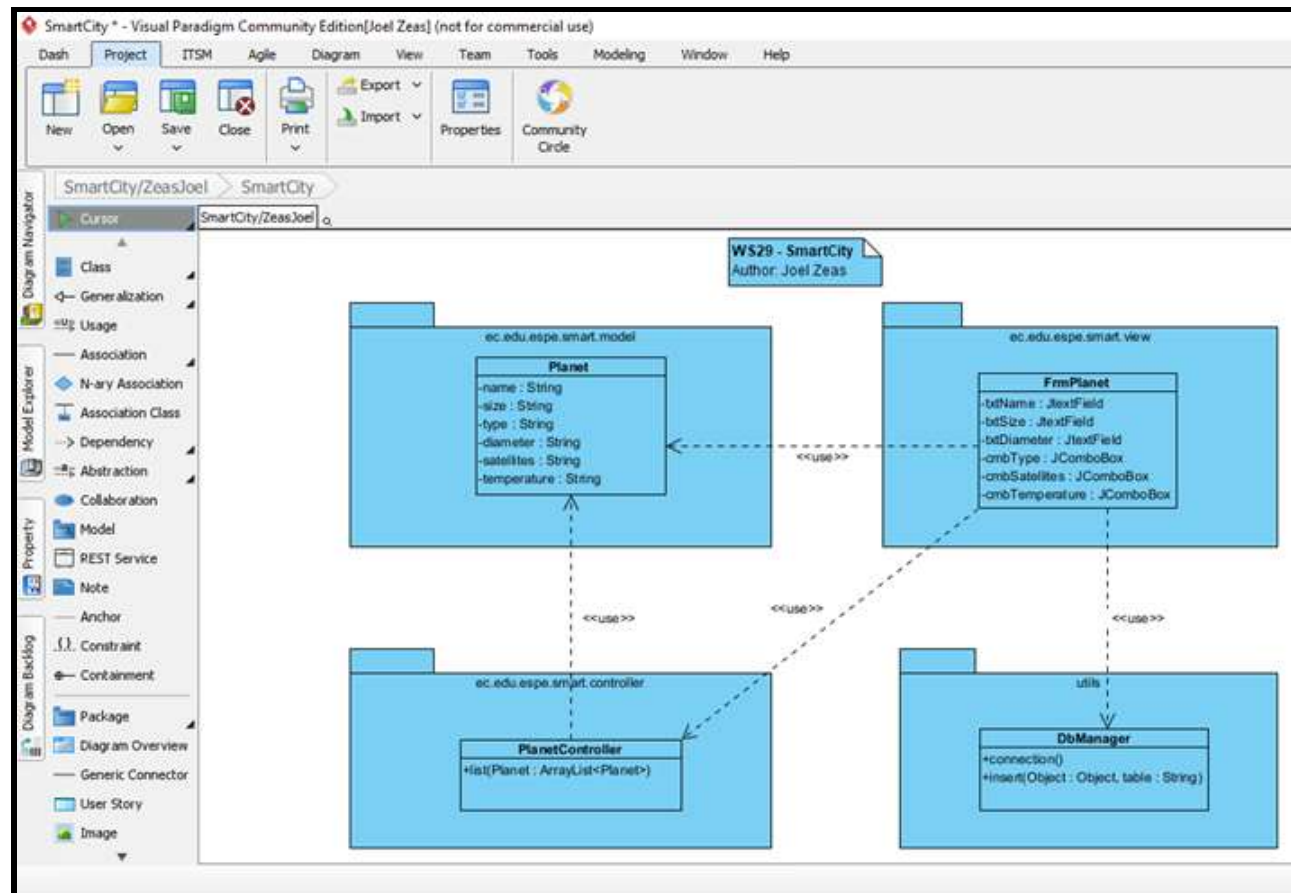
**UNIVERSITY OF THE ARMED FORCES – ESPE**  
**WS29 – Smart City – Planets**

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**Date:** 26<sup>th</sup> January 2022

**NRC:** 7490

**Career:** Telecommunications



SmartCityPlanet - Apache NetBeans IDE 12.5

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utils  
Connection.java  
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Source Design History

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What action do you want to perform?

Modify table data View table data Close program

Output - SmartCityPlanet (run)

run:

SmartCityPlanet (run) running... 143:47 INS



The screenshot displays an IDE with a Java project named 'SmartCityPlanet'. The code defines a `Planet` class with the following attributes and methods:

```

package ec.edu.espe.smartcity.planet;

import javax.swing.*;

public class Planet {

    private String name;
    private String size;
    private String type;
    private String diameter;
    private String satellites;
    private String temperature;

    public Planet(String name, String size, String type, String diameter, String satellites, String temperature) {
        this.name = name;
        this.size = size;
        this.type = type;
        this.diameter = diameter;
        this.satellites = satellites;
        this.temperature = temperature;
    }
}

```

The GUI window 'Insert Planet' contains the following input fields and buttons:

- Planetname: Earth
- Size: 5430 kgm3
- Type: Terrestrial planet
- Diameter: 12756 km
- Satellites: 1
- Temperature: 15°C, 10°C
- Buttons: Add, View table, Back, Close

A message box indicates 'Successfully added'.

The output console shows the following logs:

```




INFO: Setting max election id to 7fffffff0000000000000078 from replica set primary clusterop-shard-00-02.pyma.mongodb.net:27017
mon_26, 2022 11:08:00 P. M. com.mongodb.diagnostic.logging.JULLogger log
INFO: Setting max set version to 9 from replica set primary clusterop-shard-00-02.pyma.mongodb.net:27017
mon_26, 2022 11:08:00 P. M. com.mongodb.diagnostic.logging.JULLogger log
INFO: Discovered replica set primary clusterop-shard-00-02.pyma.mongodb.net:27017
mon_26, 2022 11:04:50 P. M. com.mongodb.diagnostic.logging.JULLogger log
INFO: Opened connection {connectionId={localValue=4, serverValue={119981}} to clusterop-shard-00-02.pyma.mongodb.net:27017

```

The screenshot shows a Java Swing window titled "Data visualization". Inside the window, there is a table with 7 columns: Cloud id, Name, Size, Type, Diameter, Satellites, and Temperat... (truncated). The table contains 6 rows of data for different planets. Below the table, there are three buttons: "Refresh" (green), "Back" (orange), and "Close" (red).

Cloud id	Name	Size	Type	Diameter	Satellites	Temperat...
61f219...	Earth	5430 kg	Terrestri	5430 km	1	15°C ; 1
61f21a...	Mercury	5520 kg	Gas plan	4880 km	0	430 °C ;
61f21f...	Mars	3950 kg	Terrestri	6794 km	2	-60°C
61f22b...	Neptune	1640 kg	Gas plan	49532 ...	14	-185°C
61f22d...	Venus	5250 kg	Terrestri	12104 ...	0	480 °C ;

Buttons: Refresh, Back, Close

 JOEL ALEXANDER's...  Access Manager  Billing

Project 0

Atlas

Realm

Charts

DEPLOYMENT

Databases

Data Lake

DATA SERVICES

Triggers

Data API PREVIEW

SECURITY

Database Access

Network Access

Advanced

+ Create Database

NAMESPACES

AnimalsZoo

CateringPlanner

ComputerData

ComputersList

ContactsBook

Project

SmartCityPlanet

PlanetList

SmartHome

### SmartCityPlanet.PlanetList

STORAGE SIZE: 36KB TOTAL DOCUMENTS: 5 INDEXES TOTAL SIZE: 36KB

Find Indexes Schema Anti-Patterns Aggregation Search Indexes

INSERT DOCUMENT

FILTER

{ field: "name" }

OPTIONS

Apply

Reset

QUERY RESULTS 1-5 OF 5

`_id: ObjectId("61f219e14adfea30c12e0b16")`  
`Name: "Earth"`  
`Size: "5438 kg/m3"`  
`Type: "Terrestrial planet"`  
`Diameter: "12756 km"`  
`Satellites: "1"`  
`Temperature: "15°C ; 18°C"`

`_id: ObjectId("61f21a544adfea30c12e0b16")`  
`Name: "Mercury"`  
`Size: "5528 kg/m3"`  
`Type: "Gas planet"`  
`Diameter: "4888 km"`  
`Satellites: "0"`  
`Temperature: "430°C ; -180°C"`

