



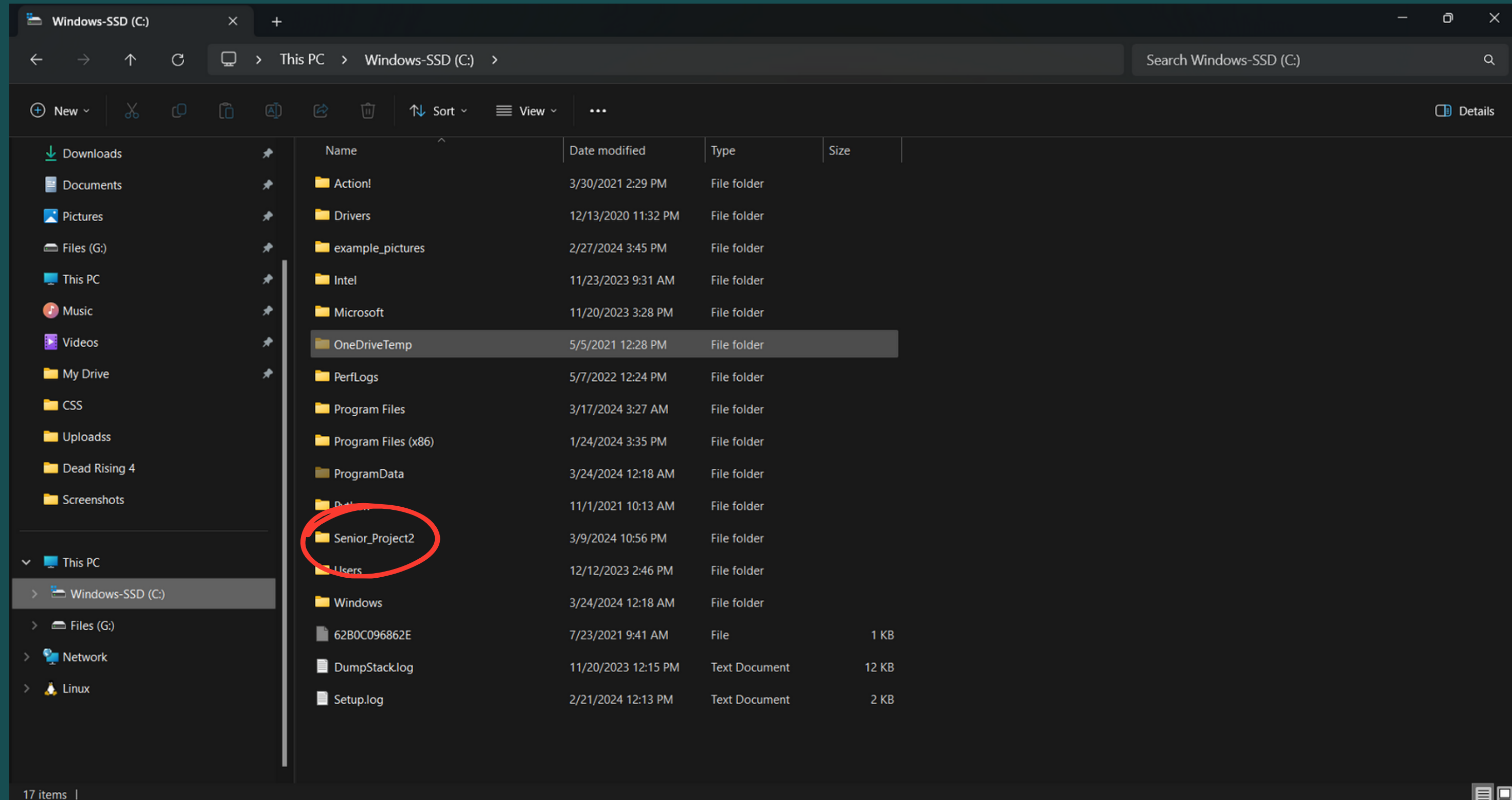
PS PARK

Apartment

Management System

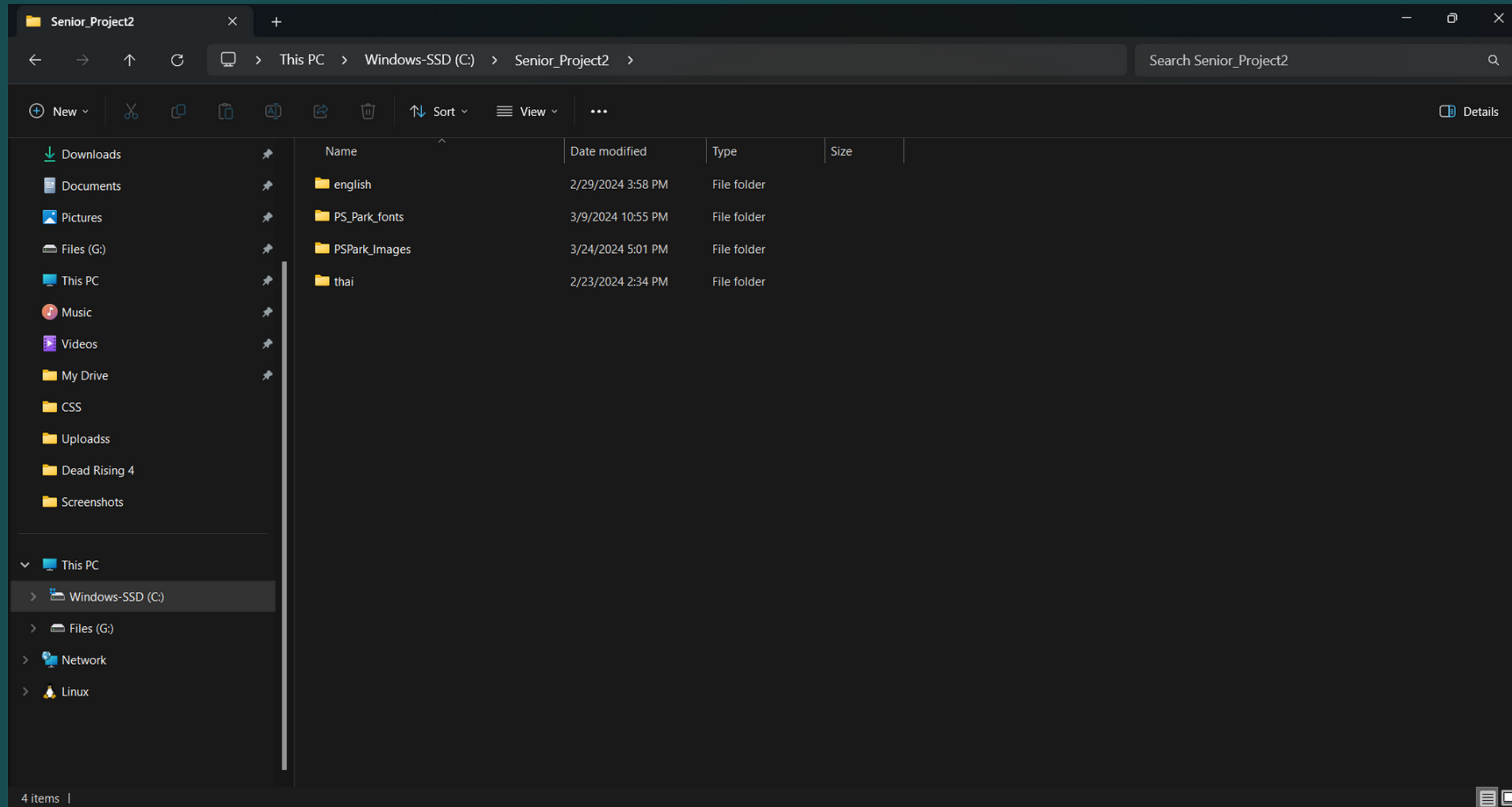
Application Setup
Guide

Setup your host location of Images, Contract Folders



Add location for your application to store images, reference contract pdf files, and change fonts based on your desire.

Setup your host location of Images, Contract Folders



Add location for your application to store images, reference contract pdf files, and change fonts based on your desire.



Setup your PostgreSQL

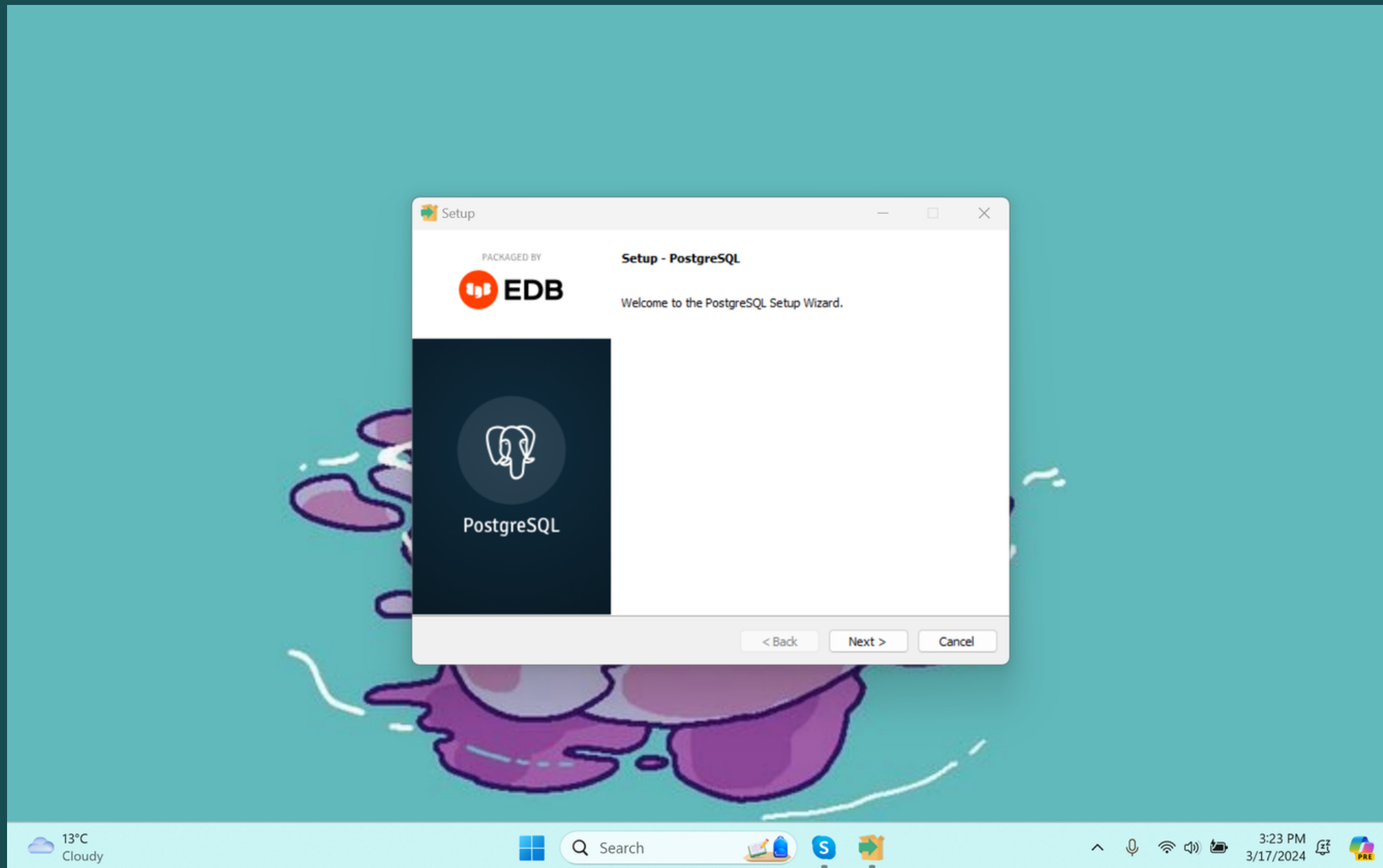
The screenshot shows the PostgreSQL website's download page. At the top, there is a navigation menu with links for Home, About, Download, Documentation, Community, Developers, Support, Donate, and Your account. A search bar is located on the right side of the navigation bar. Below the navigation bar, a blue banner announces the release of PostgreSQL 16.2, 15.6, 14.11, 13.14, and 12.18 on February 8th, 2024. The main content area is divided into two columns. The left column, titled 'Quick Links', contains a list of links: Downloads, Packages, Source, Software Catalogue, and File Browser. The right column, titled 'Downloads', features a download icon and a section for 'PostgreSQL Downloads'. It explains that PostgreSQL is available for download as ready-to-use packages or installers for various platforms, as well as a source code archive. Below this, there is a section for 'Packages and Installers' with the instruction 'Select your operating system family:'. This section contains five buttons for different operating systems: Linux (with a penguin icon), macOS (with an Apple logo), Windows (with the Windows logo), BSD (with a BSD logo), and Solaris (with a Solaris logo). At the bottom of the page, there is a 'Source code' section that provides information on where to find the source code, including the main file browser and the source control repository at git.postgresql.org. It also mentions that instructions for building from source can be found in the documentation.

Download and install PostgreSQL on your preferred Operating System.

<https://www.postgresql.org/download/>



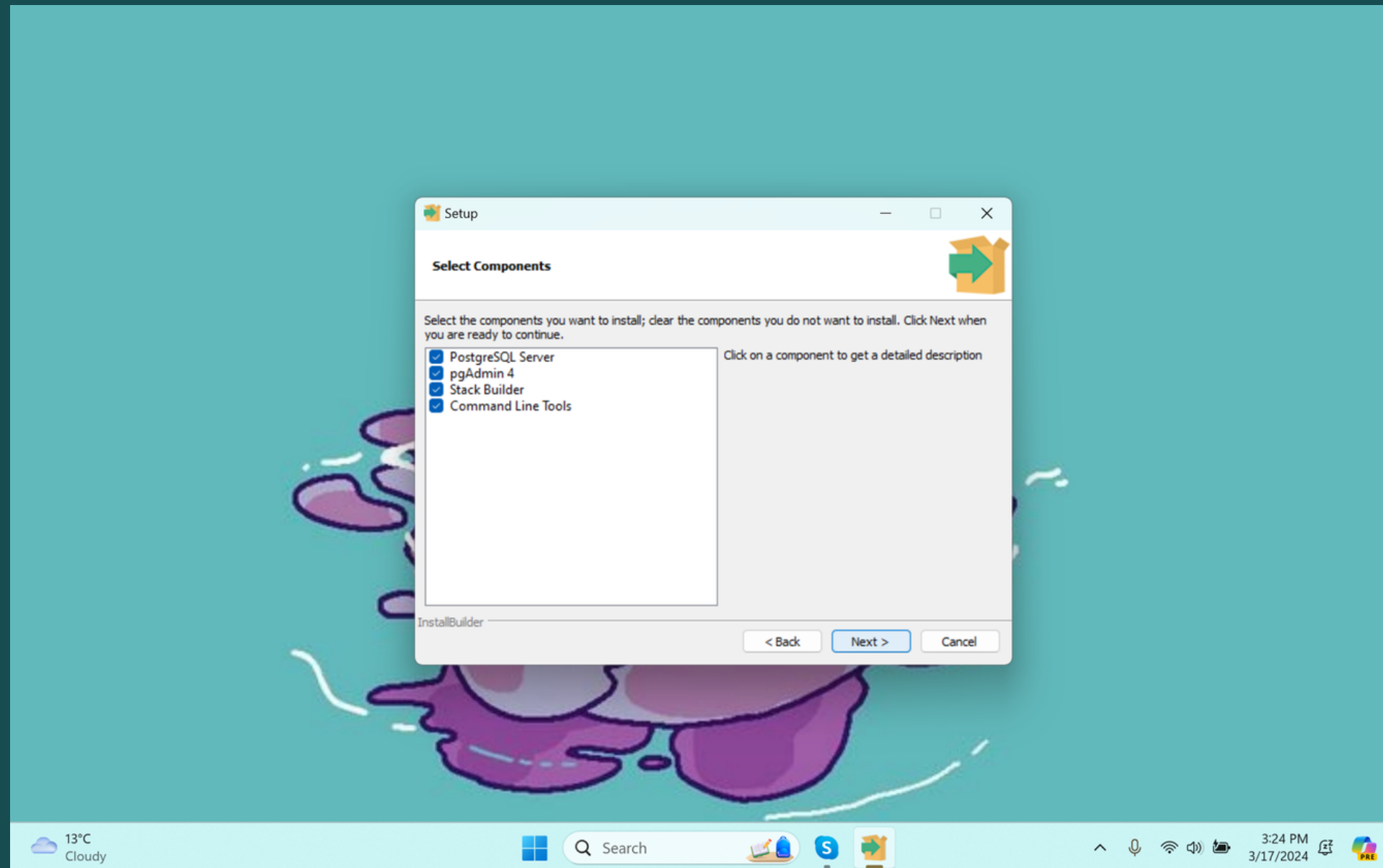
Setup your PostgreSQL



The initial screen of the PostgreSQL Setup Wizard. It welcomes the user and provides the first step to begin the installation process. The user can proceed by clicking the 'Next' button.



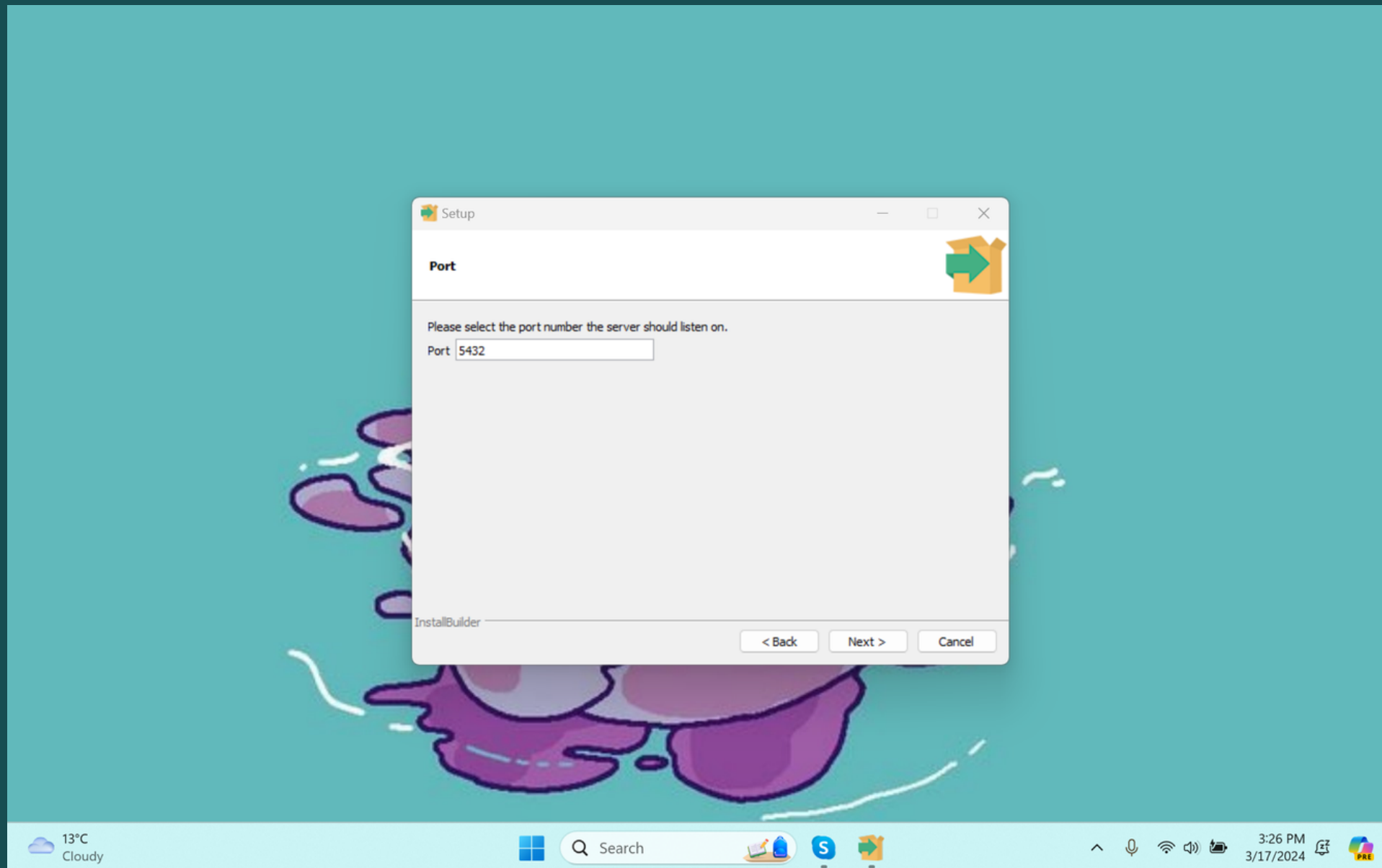
Setup your PostgreSQL



This screen allows the user to select specific components of PostgreSQL to install. Available components include the PostgreSQL Server, pgAdmin 4, Stack Builder, and Command Line Tools. Users can select or deselect components based on their needs before proceeding with the 'Next' button.



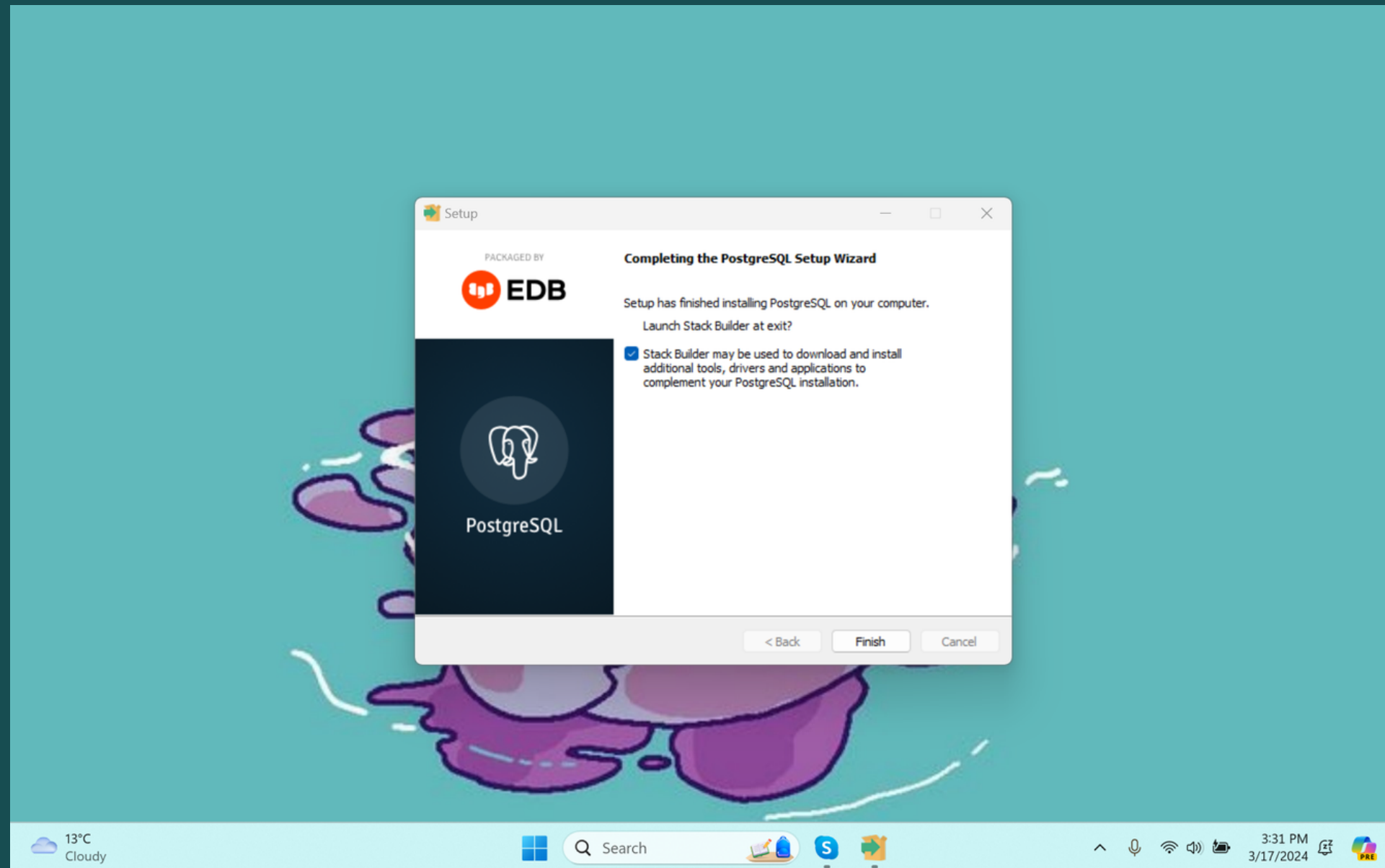
Setup your PostgreSQL



Users are prompted to select the port number on which the PostgreSQL server will listen. The default port is 5432, but it can be changed if necessary. After selecting the desired port, the user can continue by clicking the 'Next' button.



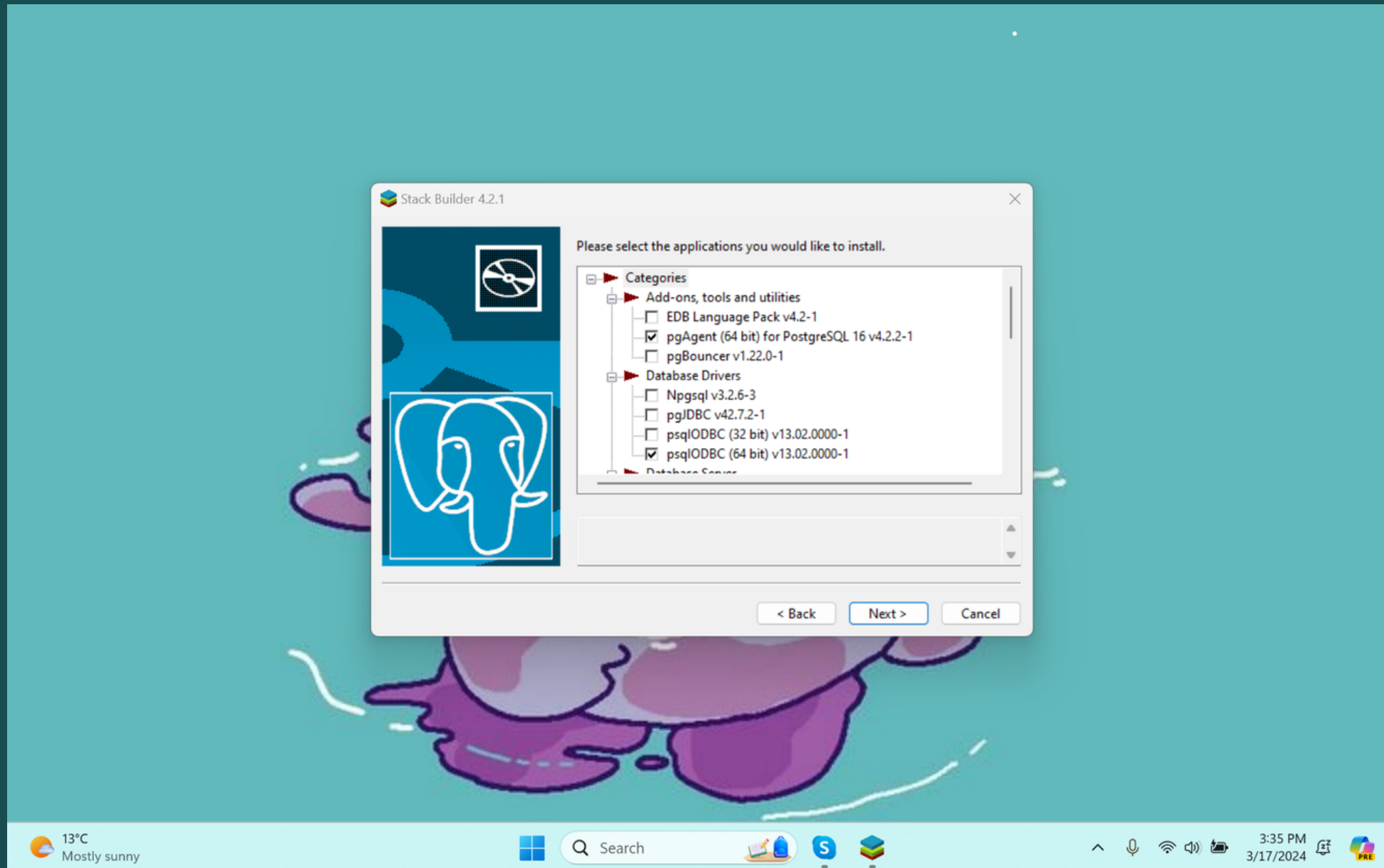
Setup your PostgreSQL



This screen indicates that PostgreSQL has been successfully installed on the computer. It also offers the option to launch Stack Builder at exit, which can be used to download and install additional tools, drivers, and applications. Users finalize the installation process by clicking the 'Finish' button.



Setup your PostgreSQL (Stack-builder)



Stack Builder is introduced as a tool that helps install additional software to complement the PostgreSQL or EnterpriseDB Postgres Plus installation. Users start the process by selecting their PostgreSQL installation from a dropdown menu and then proceed by clicking the 'Next' button.



Access Database Using SQLShell

```
SQL Shell (psql)
Server [localhost]:
Database [postgres]:
Port [5432]:
Username [postgres]:
Password for user postgres:

psql (16.2)
WARNING: Console code page (850) differs from Windows code page (1252)
8-bit characters might not work correctly. See psql reference
page "Notes for Windows users" for details.
Type "help" for help.

postgres=#
```

Shows the login sequence in SQL Shell where the user inputs server, database, port, and credentials to access PostgreSQL.

```
postgres=# CREATE ROLE sp2ams SUPERUSER LOGIN PASSWORD 'sp2ams';
CREATE ROLE
postgres=# |
```



Access Database Using SQLShell

```
SQL Shell (psql)
Server [localhost]:
Database [postgres]:
Port [5432]:
Username [postgres]: sp2ams
Password for user sp2ams:

psql (16.2)
WARNING: Console code page (850) differs from Windows code page (1252)
8-bit characters might not work correctly. See psql reference
page "Notes for Windows users" for details.
Type "help" for help.

postgres=# CREATE DATABASE SP2AMS;
CREATE DATABASE
postgres=# GRANT ALL PRIVILEGES ON DATABASE SP2AMS TO sp2ams;
GRANT
postgres=#
```

Displays the commands for creating a 'SP2AMS' database and granting all privileges to user 'sp2ams'.



Add the SQL Script onto a document file

```
CREATE TABLE "BillSequence" (  
  year INT PRIMARY KEY,  
  last_sequence INT  
);  
  
CREATE TABLE "InvoiceSequence" (  
  year INT PRIMARY KEY,  
  last_sequence INT  
);  
  
CREATE TABLE "RoomStatusDetails" (  
  status_id SERIAL PRIMARY KEY,  
  occupancy_status VARCHAR(50),  
  is_reserved BOOLEAN DEFAULT false  
);  
  
CREATE TABLE "rates" (  
  rate_id SERIAL PRIMARY KEY,  
  item_name VARCHAR(255),  
  item_price DECIMAL(10,2),  
  item_description VARCHAR,  
  last_updated TIMESTAMP WITH TIME ZONE DEFAULT NOW(),  
  VAT_Percentage INT DEFAULT 0,  
  disable_rate BOOLEAN DEFAULT false  
);  
  
CREATE TABLE "manager" (  
  manager_id SERIAL PRIMARY KEY,  
  name VARCHAR(255) UNIQUE,  
  email VARCHAR(255),  
  password_hash VARCHAR,  
  phone_number VARCHAR(20),  
  profile_image VARCHAR(255)  
);  
  
CREATE TABLE "RoomBaseDetails" (  
  room_id SERIAL PRIMARY KEY,  
  room_number VARCHAR(50),  
  floor INT,  
  base_rent DECIMAL(10,2) DEFAULT 0,  
);
```

Ln 24, Col 37 | 100% | Windows (CRLF) | UTF-8



Setup Types of Tables in the Database

```
CREATE TYPE "PaymentStatus" AS ENUM ('PAID', 'PENDING', 'OVERDUE', 'PARTIAL', 'Null');  
CREATE TYPE "InvoiceOption" AS ENUM ('EMAIL', 'PAPER', 'BOTH');  
CREATE TYPE "AccountStatus" AS ENUM ('ACTIVE', 'INACTIVE');  
CREATE TYPE "ContractStatus" AS ENUM ('NEW', 'ONGOING', 'DUE', 'WARNING', 'CHECKED_OUT',  
'TERMINATED');  
CREATE TYPE "TenancyStatus" AS ENUM ('CHECK_IN', 'CHECK_OUT');  
CREATE TYPE "RequestPriority" AS ENUM ('URGENT', 'HIGH', 'MODERATE', 'NORMAL', 'LOW');  
CREATE TYPE "RequestStatus" AS ENUM ('RESOLVED', 'UNRESOLVED');
```



Setup Types of Tables in the Database

1.

```
CREATE TYPE "PaymentStatus" AS ENUM ('PAID', 'PENDING', 'OVERDUE',  
'PARTIAL', 'Null');  
CREATE TYPE "InvoiceOption" AS ENUM ('EMAIL', 'PAPER', 'BOTH');  
CREATE TYPE "AccountStatus" AS ENUM ('ACTIVE', 'INACTIVE');  
CREATE TYPE "ContractStatus" AS ENUM ('NEW', 'ONGOING', 'DUE',  
'WARNING', 'CHECKED_OUT', 'TERMINATED');  
CREATE TYPE "TenancyStatus" AS ENUM ('CHECK_IN', 'CHECK_OUT');  
CREATE TYPE "RequestPriority" AS ENUM ('URGENT', 'HIGH',  
'MODERATE', 'NORMAL', 'LOW');  
CREATE TYPE "RequestStatus" AS ENUM ('RESOLVED', 'UNRESOLVED');  
CREATE TABLE "BillSequence" (  
    year INT PRIMARY KEY,  
    last_sequence INT  
);
```

2.

```
CREATE TABLE "InvoiceSequence" (  
    year INT PRIMARY KEY,  
    last_sequence INT  
);
```



Setup Types of Tables in the Database

3.

```
CREATE TABLE "RoomStatusDetails" (  
    status_id SERIAL PRIMARY KEY,  
    occupancy_status VARCHAR(50),  
    is_reserved BOOLEAN DEFAULT false  
);
```

4.

```
CREATE TABLE "rates" (  
    rate_id SERIAL PRIMARY KEY,  
    item_name VARCHAR(255),  
    item_price DECIMAL(10,2),  
    item_description VARCHAR,  
    last_updated TIMESTAMP WITH TIME ZONE DEFAULT NOW(),  
    "VAT_Percentage" INT DEFAULT 0,  
    disable_rate BOOLEAN DEFAULT false  
);
```

5.

```
CREATE TABLE "manager" (  
    manager_id SERIAL PRIMARY KEY,  
    name VARCHAR(255) UNIQUE,  
    email VARCHAR(255),  
    email_key VARCHAR(255),  
    password_hash VARCHAR,  
    phone_number VARCHAR(20),  
    profile_image VARCHAR(255)  
);
```




Setup Types of Tables in the Database

6.

```
CREATE TABLE "RoomBaseDetails" (  
    room_id SERIAL PRIMARY KEY,  
    room_number VARCHAR(50),  
    floor INT,  
    base_rent DECIMAL(10,2) DEFAULT 0,  
    room_type VARCHAR(50),  
    deposit DECIMAL(10,2),  
    "statusDetailsId" INT UNIQUE,  
    FOREIGN KEY ("statusDetailsId") REFERENCES  
    "RoomStatusDetails"(status_id) ON DELETE  
    CASCADE  
);
```

7.

```
CREATE TABLE "bills" (  
    bill_id SERIAL PRIMARY KEY,  
    room_id INT NOT NULL,  
    water_usage DECIMAL(10,2),  
    water_cost DECIMAL(10,2),  
    electricity_usage DECIMAL(10,2),  
    electricity_cost DECIMAL(10,2),  
    additional_rates_cost DECIMAL(10,2),  
    billing_date TIMESTAMP,  
    baserent_month VARCHAR(20),  
    baserent_year INT,  
    total_amount DECIMAL(10,2),  
    billing_number VARCHAR(20),  
    invoice_number VARCHAR(20),  
    FOREIGN KEY (room_id) REFERENCES "RoomBaseDetails"  
    (room_id) ON DELETE CASCADE  
);
```



Setup Types of Tables in the Database

8.

```
CREATE TABLE "GeneratedBillRecord" (  
  bill_record_id SERIAL PRIMARY KEY,  
  generation_date TIMESTAMP,  
  rent_month VARCHAR,  
  room_id INT,  
  rent_year INT,  
  bill_id INT,  
  payment_status "PaymentStatus" DEFAULT  
'PENDING',  
  FOREIGN KEY (room_id) REFERENCES  
"RoomBaseDetails"(room_id) ON DELETE CASCADE,  
  FOREIGN KEY (bill_id) REFERENCES "bills"(bill_id)  
ON DELETE CASCADE,  
  UNIQUE (generation_date, room_id)  
);
```

9.

```
CREATE TABLE "tenants" (  
  tenant_id SERIAL PRIMARY KEY,  
  first_name VARCHAR(100),  
  last_name VARCHAR(100),  
  personal_id VARCHAR(255) UNIQUE,  
  contract_status "ContractStatus",  
  gender VARCHAR(10),  
  issue_date TIMESTAMP,  
  expiration_date TIMESTAMP,  
  invoice_option "InvoiceOption" DEFAULT 'EMAIL',  
  account_status "AccountStatus" DEFAULT 'ACTIVE',  
  tenant_image VARCHAR(255),  
  nationalcard_image VARCHAR(255),  
  "roomBaseDetailsRoom_id" INT,  
  FOREIGN KEY ("roomBaseDetailsRoom_id") REFERENCES  
"RoomBaseDetails"(room_id)  
);
```



Setup Types of Tables in the Database

10.

```
CREATE TABLE "addresses" (  
  address_id SERIAL PRIMARY KEY,  
  tenant_id INT NOT NULL,  
  addressnumber VARCHAR(5),  
  street VARCHAR(255),  
  sub_district VARCHAR(255),  
  district VARCHAR(255),  
  province VARCHAR(255),  
  postal_code VARCHAR(20),  
  FOREIGN KEY (tenant_id) REFERENCES  
  tenants(tenant_id) ON DELETE CASCADE,  
  UNIQUE (tenant_id)  
);
```

11.

```
CREATE TABLE "contacts" (  
  contact_id SERIAL PRIMARY KEY,  
  tenant_id INT NOT NULL,  
  phone_number VARCHAR(20),  
  email VARCHAR(255),  
  line_id VARCHAR(255),  
  eme_name VARCHAR(255),  
  eme_phone VARCHAR(20),  
  eme_line_id VARCHAR(255),  
  eme_relation VARCHAR(255),  
  FOREIGN KEY (tenant_id) REFERENCES  
  tenants(tenant_id) ON DELETE CASCADE,  
  UNIQUE (tenant_id)  
);
```



Setup Types of Tables in the Database

12.

```
CREATE TABLE "tenancy_records" (  
  record_id SERIAL PRIMARY KEY,  
  tenant_id INT,  
  room_id INT,  
  move_in_date TIMESTAMP,  
  move_out_date TIMESTAMP,  
  period_of_stay INT,  
  deposit DECIMAL(10,2),  
  tenancy_status "TenancyStatus" DEFAULT 'CHECK_IN',  
  FOREIGN KEY (room_id) REFERENCES  
  "RoomBaseDetails"(room_id) ON DELETE NO ACTION,  
  FOREIGN KEY (tenant_id) REFERENCES "tenants"  
  (tenant_id) ON DELETE NO ACTION  
);
```

13.

```
CREATE TABLE "meter_readings" (  
  reading_id SERIAL PRIMARY KEY,  
  room_id INT,  
  water_reading INT,  
  electricity_reading INT,  
  reading_date TIMESTAMP,  
  FOREIGN KEY (room_id) REFERENCES  
  "RoomBaseDetails"(room_id) ON DELETE CASCADE  
);
```



Setup Types of Tables in the Database

14.

```
CREATE TABLE "room_rates" (  
    room_id INT,  
    rate_id INT,  
    quantity INT DEFAULT 1,  
    FOREIGN KEY (room_id) REFERENCES "RoomBaseDetails"  
(room_id) ON DELETE CASCADE,  
    FOREIGN KEY (rate_id) REFERENCES "rates"(rate_id) ON  
DELETE CASCADE,  
    PRIMARY KEY (room_id, rate_id)  
);
```

15.

```
CREATE TABLE "Request" (  
    request_id SERIAL PRIMARY KEY,  
    room_id INT,  
    issue_date TIMESTAMP DEFAULT NOW(),  
    resolved_date TIMESTAMP,  
    request_details VARCHAR,  
    "Request_priority" "RequestPriority",  
    "Request_status" "RequestStatus" DEFAULT  
'UNRESOLVED',  
    FOREIGN KEY (room_id) REFERENCES  
"RoomBaseDetails"(room_id) ON DELETE CASCADE  
);
```



Setup Types of Tables in the Database

16.

```
CREATE TABLE "service_contacts" (  
  service_contact_id SERIAL PRIMARY KEY,  
  name VARCHAR(255),  
  nickname VARCHAR(255),  
  phone_number VARCHAR(20),  
  occupation VARCHAR(255),  
  line_id VARCHAR(255),  
  image VARCHAR(255),  
  manager_id INT,  
  FOREIGN KEY (manager_id) REFERENCES "manager"  
  (manager_id) ON DELETE CASCADE  
);
```

17.

```
CREATE TABLE "TemporaryRateAdjustments" (  
  temp_adjustment_id SERIAL PRIMARY KEY,  
  rate_id INT NOT NULL,  
  room_id INT NOT NULL,  
  bill_id INT NOT NULL,  
  bill_record_id INT,  
  temporary_price DECIMAL(10, 2),  
  applied BOOLEAN DEFAULT false,  
  creation_date TIMESTAMP WITH TIME ZONE DEFAULT  
  now(),  
  FOREIGN KEY (rate_id) REFERENCES "rates"(rate_id),  
  FOREIGN KEY (room_id) REFERENCES "RoomBaseDetails"  
  (room_id),  
  FOREIGN KEY (bill_id) REFERENCES "bills"(bill_id),  
  FOREIGN KEY (bill_record_id) REFERENCES  
  "GeneratedBillRecord"(bill_record_id),  
  UNIQUE (rate_id, room_id, bill_id)  
);
```




Setup Types of Tables in the Database

Windows protected your PC

Microsoft Defender SmartScreen prevented an unrecognized app from starting. Running this app might put your PC at risk.

[More info](#)

Windows protected your PC

Microsoft Defender SmartScreen prevented an unrecognized app from starting. Running this app might put your PC at risk.

App: ps-park Setup 1.0.0.exe

Publisher: Unknown publisher

File Edit View Window Help

Windows Security Alert

Windows Defender Firewall has blocked some features of this app

Windows Defender Firewall has blocked some features of ps-park on all public and private networks.

Name: ps-park
Publisher: Zwe Min Maw
Path: C:\users\user\AppData\Local\Programs\ps-park\ps-park.exe

Allow ps-park to communicate on these networks:

Private networks, such as my home or work network

Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)

[What are the risks of allowing an app through a firewall?](#)

Allow access Cancel

Don't run



Setup Types of Tables in the Database

```
INSERT INTO public.manager(  
name, email, password_hash, phone_number, profile_image)  
VALUES ('BxBZwe', 'bxbzwe@gmail.com', 'BxBZwe136928', 0929044436, "");
```



Install Libre Office

<https://www.libreoffice.org/download/download-libreoffice/>

The screenshot shows the LibreOffice website's download page. At the top, there is a navigation bar with the LibreOffice logo and menu items: DOWNLOAD, DISCOVER, GET HELP, IMPROVE IT, EVENTS, ABOUT US, and DONATE. A search bar is also present. Below the navigation bar, a breadcrumb trail reads "Download / Download LibreOffice".

The main content area is divided into two columns. The left column features a blue button for "Business users: click here" with the subtext "Get long-term support, custom features and more". Below this is a green section titled "Download LibreOffice" with a download icon and the text "Ideal for home users, students and non-profits". This section highlights "LibreOffice 24.2.1" and includes a "Choose your operating system:" dropdown menu currently set to "Windows (64-bit)". A prominent yellow "DOWNLOAD" button is visible, along with links for "Torrent, Info" and "LibreOffice 24.2.1 release notes". A list of "Supplementary Downloads" includes "Help for offline use: English (US) (Torrent, Info)" and "Key management software for the new OpenPGP feature (external site)". A link for "need another language?" is also present.

The right column contains a vertical stack of green buttons: "DOCUMENTATION", "PROVIDE FEEDBACK", "JOIN THE PROJECT!", "MEET US AT EVENTS", "DISCOVER LIBREOFFICE", and "GOOD LOOKING DOCUMENTS". Below these buttons is a list of links: "Choose operating system", "Choose language", "How do I install LibreOffice?", "System requirements", "LibreOffice for Android and iOS", "App Stores and Chromebooks", "Development versions", and "Portable versions & DVD images".



Setting up your email for 2 step verification

Google Account Search Google Account Account secure

- Home
- Personal info
- Data & privacy
- Security**
- People & sharing
- Payments & subscriptions
- About

You have security tips
Security tips found in the Security Checkup

[Review security tips](#)

Recent security activity
No security activity or alerts in the last 28 days

How you sign in to Google
Make sure you can always access your Google Account by keeping this information up to date


2-Step Verification	2-Step Verification is off	>
Passkeys and security keys	Start using passkeys	>
Password	Last changed Aug 24, 2022	>
Skip password when possible	<input checked="" type="checkbox"/> On	>


Privacy Terms Help About

click the 2-step verification



Setting up your email for 2 step verification

 Google sign-in has a new look
We've improved the sign-in page with a more modern design [Learn more](#) [Dismiss](#)


Hi Zwe

To continue, first verify it's you

Show password

[Forgot password?](#) [Next](#)

English (United States) [Help](#) [Privacy](#) [Terms](#)

Enter your email password to confirm it is you.



Setting up your email for 2 step verification

The screenshot shows the Google Account '2-Step Verification' page. At the top left is the 'Google Account' logo. In the top right corner, there are icons for help, a grid menu, and a profile icon with the letter 'Z'. Below the header, there is a back arrow and the title '2-Step Verification'. The main content area features a light blue box with a shield icon containing a 'G' and the heading 'Add a second step to your account'. Below this heading is the text: 'To turn on 2-Step Verification you first need to add a second step to your Google Account, like a phone number'. To the right of this text is a blue button labeled 'Add phone number'. Below this box, the heading 'Turn on 2-Step Verification' is followed by the text: 'Prevent hackers from accessing your account with an additional layer of security.' Below this is another paragraph: 'Unless you're signing in with a passkey, you'll be asked to complete the most secure second step available on your account. You can update your second steps and sign-in options any time in your settings. [Go to Security Settings](#)'. To the right of this text are three icons: a smartphone with an envelope icon, a yellow key with a blue tag, and a printer. Below the text is a blue button labeled 'Turn on 2-Step Verification'. At the bottom, there is a section titled 'Second steps' with the text: 'Make sure you can access your Google Account by keeping this information up to date and adding more sign-in options'.

click "Add phone number" to add your phone number and to turn on the 2-step verification.



Setting up your email for 2 step verification

The screenshot shows the Google Account Security page. A search bar at the top contains the text "app password". Below the search bar, a dropdown menu displays "4 RESULTS":

- Password Manager Security
- Password Personal info, Security
- App passwords Security (highlighted)
- Web & App Activity Data & privacy
- Search Help Center for "app password"

The main content area includes three buttons: "Authenticator", "Backup 2-Step Verification phones", and "Backup codes". Below these are two sections:

- Your devices**: "Where you're signed in". It lists "3 sessions on Windows computer(s)" (Windows, Windows, ...) and "3 sessions on Android phone(s)" (BxBZwe, vivo 1910, ...). A "Find a lost device" button is at the bottom.
- Your connections to third-party apps & services**: "Keep track of your connections to third-party apps and services". It lists "Canva", "ClickUp", and "FlutterFlow", each with a right-pointing arrow.

At the bottom left, there are links for "Privacy", "Terms", "Help", and "About". A URL bar at the very bottom shows "https://myaccount.google.com/u/3/apppasswords".

Now go back to main menu of the gmail setting and search for app passwords



Setting up your email for 2 step verification

The screenshot shows the 'App passwords' page in a Google Account interface. At the top left is the 'Google Account' logo. In the top right corner, there are three icons: a question mark, a grid of dots, and a profile picture with the letter 'Z'. Below the header is a back arrow and the text 'App passwords'. The main content area contains two paragraphs of text explaining app passwords and their security. Below the text is a form with a text input field labeled 'App name' and a 'Create' button.

Google Account

← App passwords

App passwords help you sign into your Google Account on older apps and services that don't support modern security standards.

App passwords are less secure than using up-to-date apps and services that use modern security standards. Before you create an app password, you should check to see if your app needs this in order to sign in.

[Learn more](#)

You don't have any app passwords.

To create a new app specific password, type a name for it below...

App name

Create

Give a name to the application you will be using the password for.



Setting up your email for 2 step verification

A screenshot of the Google Account 'App passwords' page. The page title is 'App passwords' with a back arrow. Below the title, there is explanatory text about app passwords and a 'Learn more' link. A modal window is open in the center, titled 'Generated app password'. It displays 'Your app password for your device' followed by a 16-character password: 'kxha fldf etyb'. Below the password, there is a section titled 'How to use it' with instructions on how to use the password in an application. A blue 'Done' button is at the bottom right of the modal. In the background, a form for creating a new app password is visible, with a 'Create' button at the bottom. The footer of the page includes links for 'Privacy', 'Terms', 'Help', and 'About'.

You will be given a 16 letters password which you will need to insert it in the application.



Setting up your email for 2 step verification

PS Park <

Dashboard (Home)

Master Data

Rate Maintenance

Room Maintenance

Tenant Maintenance

Check-In/Check-Out

Check In

Check Out

Operation

Generate Contract

Generate Billing Date

Enter Billing Details

Summary Billing Detail

Printing/Payment

Report

Accural Billing Report

Profile

Manage Profile and Email Settings

Name ✎
LordBxBZwe

Email ✎
testsp2sc@gmail.com

Email Key ✎
hitv ipyn occn wxwg

Telephone ✎
0929044436

Change Password

In the application, under profile setting, you can update the email as well as the email key with your 16 letters password. Now you can send email to tenants.



Setting up your email for 2 step verification

Note that whenever you want to use a new email, you will need to perform the 2 – step verification of that email and then update the email address and the passkey in the application.



PS PARK

Apartment

Management System

Thank you