

HouseHub Installation Guide

Project: HouseHub

Course: Computer Science Capstone

System Type: Web Application (Spring Boot + React + PostgreSQL)

1. Introduction

This document provides step-by-step instructions for installing, configuring, and running the HouseHub web application. HouseHub is a household management platform that allows users to manage chores, assign helpers, track payments, and communicate through a centralized system.

2. System Requirements

Hardware

- Minimum 8 GB RAM recommended
- At least 5 GB free disk space

Operating Systems

- Windows 10 / 11
- macOS
- Linux (Ubuntu or similar)

3. Software Prerequisites

Needs the following software before proceeding:

- Java JDK 21
- Node.js (v18 or higher)
- PostgreSQL 17
- pgAdmin 4
- Git

4. Database Setup (PostgreSQL)

Create Database

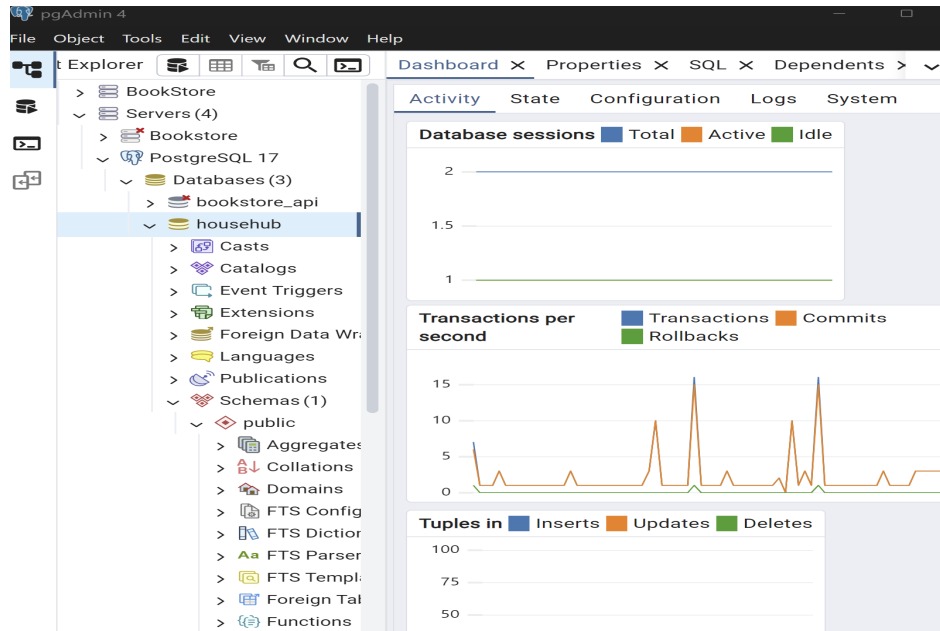
1. Open pgAdmin 4
2. Connect to PostgreSQL server
3. Right-click Databases → Create → Database

Name the database:

househub

4.1 Import Database Schema and Data

1. Right-click the househub database
2. Select Query Tool
3. Open and execute:
 - Househub_schema.sql



5. Backend Setup (Spring Boot)

Navigate to Backend Directory Code\househub\househub-api\househub-api

5.1 Configure Database Connection

Open:

- application.properties

Update the following values:

spring:

datasource:

url: jdbc:postgresql://localhost:5432/househub

username: postgres

password: YOUR_DATABASE_PASSWORD

5.2 Run Backend Server

From the backend directory, run:

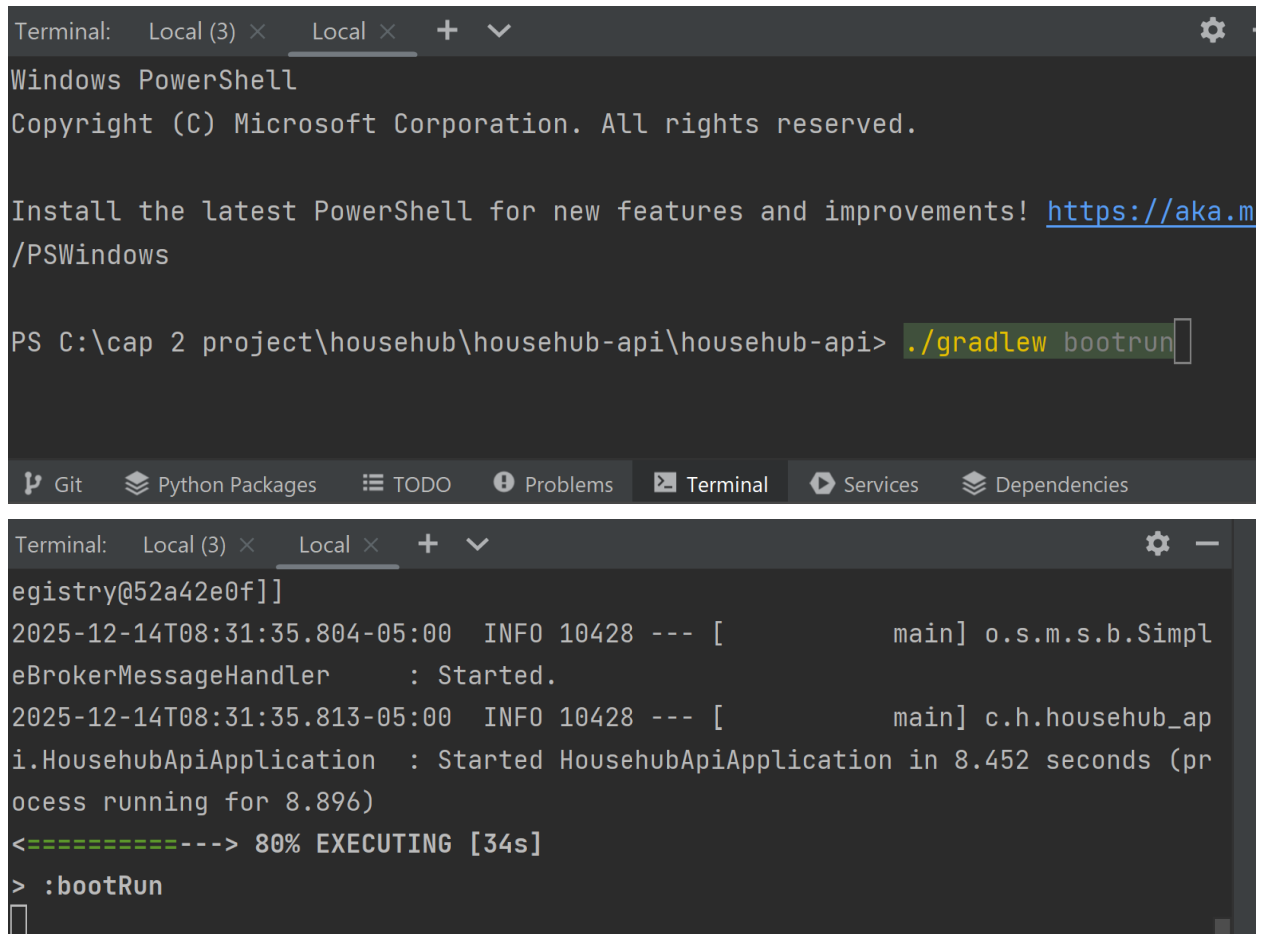
./gradlew bootRun

or (Windows):

gradlew bootRun

Backend should start on:

<http://localhost:8080>



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Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\cap 2 project\househub\househub-api\househub-api> ./gradlew bootrun

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egistry@52a42e0f]]
2025-12-14T08:31:35.804-05:00 INFO 10428 --- [main] o.s.m.s.b.SimpleBrokerMessageHandler : Started.
2025-12-14T08:31:35.813-05:00 INFO 10428 --- [main] c.h.househub_api.HousehubApiApplication : Started HousehubApiApplication in 8.452 seconds (process running for 8.896)
<=====--> 80% EXECUTING [34s]
> :bootRun
```

6. Frontend Setup (React + Vite)

6.1 Navigate to Frontend Directory C:\HouseHub_Capstone_Final\Code\househub\web

6.2 Install Dependencies

npm install

6.3 Start Frontend Server

npm run dev

Frontend should start on:

<http://localhost:5173>

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Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\cap 2 project\househub\web\househub-web> npm run dev
```

```
Terminal: Local (3) × Local × + ▾

VITE v7.2.6 ready in 481 ms

➔ Local:   http://localhost:5173/
➔ Network: use --host to expose
➔ press h + enter to show help
```

7. Running the Application

1. Ensure PostgreSQL is running
2. Start the backend (Spring Boot)
3. Start the frontend (React)

Open browser and navigate to:

<http://localhost:5173>

8. Installation Complete

At this point, the HouseHub system should be fully operational with backend, frontend, and database successfully connected.

End of Installation Guide