

# Requirements & Installation Guide

**Project**: School Activity Booking System

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## Simple Guide: How to Run This App

**Think of this like assembling furniture**:

You need the right tools, the parts, and the instructions.

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## Part 1: The Tools You Need (Requirements)

Before you start, make sure your computer has these:

- Python** (The Engine)
  - This is the language our app speaks.
  - You need version 3.9 or newer.
  - Download from [python.org](https://python.org)
- Git** (The Downloader)
  - Helps you download our code.
  - Download from [git-scm.com](https://git-scm.com)
- A Browser** (The Screen)
  - Chrome, Firefox, Edge, or Safari.
  - Any modern browser works!

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## Part 2: Installation (Putting it Together)

Follow these steps exactly:

### **Step 1: Get the Code**

Open your terminal (Command Prompt) and type:

```
git clone https://github.com/your-repo/school-booking.git
cd school-booking
```

*Translation: "Download the files and go into the folder"*

### **Step 2: Create a Virtual Space**

We don't want to mess up your computer, so we make a "sandbox" for our app.

```
python -m venv .env
```

*Translation: "Make a safe box called .env"*

### **Step 3: Turn on the Sandbox**

**Windows**:

```
.env\Scripts\Activate.ps1
```

**Mac/Linux**:

```
source .env/bin/activate
```

*Translation: "Step inside the safe box"*

### **Step 4: Install Parts**

```
pip install -r requirements.txt
```

*Translation: "Download all the plugins and libraries we need"*

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## Part 3: Configuration (The Settings)

We need to set some secret passwords.

1. Create a file called `.env`

2. Paste this inside:

`SECRET_KEY=my-secret-password`

`MAIL_USERNAME=greenwoodinternationaluk@gmail.com`

`MAIL_PASSWORD=ridw cmtm exwe khjl`

`DATABASE_URL=sqlite:///booking_system_v2.db`

`*Translation: "Here are the keys to the email and database"*`

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## Part 4: Running It! (Start the Engine)

1. **Create the Database**:

`python populate_db.py`

`*Translation: "Build the filing cabinets and fill them with sample data"`

`*(This creates admin, parents, tutors, and activities automatically!)*`

2. **Start the Server**:

`python app.py`

`*Translation: "Turn on the website"`

3. **Open in Browser**:

Go to: `http://127.0.0.1:5000`

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## Part 5: How to Use It (User Manual)

### ***Login Details (Demo Accounts)***

**1. The Admin (The Boss)**

- **Email**: `greenwoodinternationaluk@gmail.com`

- **Password**: `sanchitkaushal`

- **What to do**: Go to `/admin/login`. Create new activities!

**2. The Parent (The Customer)**

- **Email**: `parent@demo.com`

- **Password**: `demo123`

- **What to do**: Go to `/login`. Book a class! Download invoice!

**3. The Tutor (The Teacher)**

- **Email**: `sarah.smith@greenwood.edu`

- **Password**: `tutor123`

- **What to do**: Go to `/tutor/login`. Mark attendance!

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## Troubleshooting (Fixing Problems)

**Problem**: "It says 'Module not found!'"

**Fix**: You forgot to activate the sandbox (Step 3) or install parts (Step 4).

**Problem**: "Email not sending!"

**Fix**: Check your internet. Check the `.env` file has the right password.

**Problem**: "Database is locked!"

**Fix**: Close the app and restart it.

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**\*\*Ready to go? Start at Step 1!\*\***