

Requirements & Installation Guide

Project: School Activity Booking System

Simple Guide: How to Run This App

Think of this like assembling furniture:

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

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
- Git** (The Downloader)
 - Helps you download our code.
 - Download from git-scm.com
- A Browser** (The Screen)
 - Chrome, Firefox, Edge, or Safari.
 - Any modern browser works!

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"

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"

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`

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!

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.

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