**Project Title: Smart Patient Data Security System**

**Technology Used:** Python, Flask, HTML, CSS, Bootstrap, SQLite Database

1. **SOFTWARE REQUIREMENTS**

• Python (Version 3.8 or above)

• Visual Studio Code / PyCharm / Any Code Editor

• Flask Framework

• pip Package Installer

**2. INSTALLATION STEPS**

Step 1: Open the project folder in VS Code

Example:

C:\Users\<YourName>\Desktop\SmartPatientSystem

Step 2: Open Terminal in VS Code

Terminal → New Terminal

Step 3: Create Virtual Environment (only first time)

Type:

python -m venv venv

Step 4: Activate the Virtual Environment

Windows:

venv\Scripts\activate

Step 5: Install Required Dependencies

Type:

pip install flask flask\_sqlalchemy flask\_login bcrypt cryptography

Step 6: Run the Project

Type:

python app.py

Step 7: Open the Application in Web Browser

Go to:

http://127.0.0.1:5000/

3**. LOGIN / REGISTRATION**

• New users must register first using REGISTER button.

• Then login using the registered email and password.

**4. DASHBOARD OPERATIONS**

• Add Patient Details

• View Patient Records

• Update Patient Records (if enabled)

• Delete Patient Records (if required)

• Logout securely

**5. PROJECT STRUCTURE (FOLDER LAYOUT)**

SmartPatientSystem/

│ app.py

│ README.txt

│ requirements.txt (optional)

│

├─ templates/

│ ├─ base.html

│ ├─ home.html

│ ├─ login.html

│ ├─ register.html

│ ├─ dashboard.html

│ ├─ about.html

│ ├─ doctors.html

│ ├─ achievements.html

│ └─ contact.html

│

└─ static/

├─ style.css

6**. STOPPING THE APPLICATION**

• Press CTRL + C in the terminal.

• To deactivate virtual environment:deactivate

**7. TROUBLESHOOTING**

• If python not detected → Install Python & restart system

• If dependency missing → Run: pip install <package\_name>

• If page not opening → Ensure app is running and correct port is used