Software, Hardware Requirements, and Dependencies

# Software Requirements

- Operating System: Windows 10/11, Linux, or macOS  
- Python: Version 3.7 or higher  
- Web Browser: Google Chrome, Firefox, or any modern browser  
- Code Editor (optional): VS Code, PyCharm, or any preferred editor

# Hardware Requirements

- Processor: Intel i3 or equivalent (minimum), i5/i7 recommended  
- RAM: Minimum 4 GB, 8 GB recommended for smooth performance  
- Storage: At least 500 MB free space for project files and dependencies  
- Internet: Required for downloading dependencies and updates

# Python Libraries and Dependencies

The following libraries are required for the Diet Recommendation System:

- Streamlit: For web application development  
- Pandas: For data manipulation and analysis  
- Numpy: For numerical operations  
- Scikit-learn: For loading and using the machine learning model  
- Pickle: To load the pre-trained ML model  
- Matplotlib/Seaborn (Optional): For data visualization during development

# Additional Notes

Make sure Python and pip are installed and configured correctly in your environment. All required libraries can be installed using the provided 'requirements.txt' file with the command:  
  
pip install -r requirements.txt  
  
It's recommended to use a virtual environment to avoid conflicts with other Python projects.