

CHAPTER 3

SYSTEM SPECIFICATION

3.1 SYSTEM REQUIREMENTS

3.1.1 HARDWARE REQUIREMENTS

- System : Pentium IV 2.4 GHz.
- Hard Disk : 1 TB
- RAM : 4 GB

3.1.2 SOFTWARE REQUIREMENTS

- Operating system : Windows 10
- Coding Language : PYTHON
- Tool : PYTHON 3.9, FLASK

3.2 SOFTWARE DESCRIPTION

3.2.1 ABOUT PYTHON

PYTHON is an interpreted, object-oriented, high level programming language with dynamic semantics. It supports modules and package which encourages code reuse. Typical uses include:

- User-friendly Data Structures
- Software development
- Writing system scripts
- Data analysis, exploration, and visualization
- Scientific and engineering graphics

PYTHON is often used as a scripting language for Web applications. It means it can automate specific series of tasks in an efficient way. It works on different platforms like Windows, Mac, Linux, etc.

3.2.2 CHARACTERISTICS OF PYTHON

- Python is a very easy to use developer-friendly language.
- Open Source Programming language.
- Support a wide area of GUI.
- Easily Portable language.
- Supports other Programming Languages like C,C++,Java,etc.
- Tools for building applications with custom user interface.

3.2.3 ABOUT FLASK

FLASK is a micro web framework written in python. It does not require specific tools or libraries. It allows us to build web applications. It will not force any dependency. It has features like url routing, template engine.

3.2.4 CHARACTERISTICS OF FLASK

- Development server and debugger.
- Integrated support for unit testing.
- RESTful request dispatching.
- Uses Jinja templating.
- Support for secure cookies (client side sessions).