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Part 1: An Introduction to FastAPI

Upon completion of this part, you will have a substantial understanding of FastAPI, including routing, file handling, error handling, building response models, and templating. This part starts by introducing the technologies that will be used throughout the book before proceeding to the basics of the FastAPI framework.

This part comprises the following chapters:

- *Chapter 1, Getting Started with FastAPI*
- *Chapter 2, Routing in FastAPI*
- *Chapter 3, Response Models and Error Handling*
- *Chapter 4, Templating in FastAPI*

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Getting Started with FastAPI

FastAPI is the Python web framework that we are going to use in this book. It is a fast, lightweight modern API and has an easier learning curve when compared to other Python-based web frameworks, such as Flask and Django. FastAPI is relatively new, but it has a growing community. It is used extensively in building web APIs and in deploying machine learning models.

In the first chapter, you will learn how to set up your development environment and build your first FastAPI application. You will begin by learning the basics of **Git** – a version control system – to equip you with the knowledge of storing, tracking, and retrieving file changes as you build your application. You will also learn how to handle packages in Python using **pip**, how to create isolated development environments with **Virtualenv**, and the basics of **Docker**. Lastly, you will be introduced to the basics of FastAPI by building a simple *Hello World* application.