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Chapter 1. Introduction

Introduction

Setting up a development environment is a crucial step for any developer. A well-configured environment enhances productivity and reduces errors. In this guide, we'll walk you through setting up a development environment on macOS using Visual Studio Code (VS Code), a popular and powerful code editor.

Chapter 2. Prerequisites

Prerequisites

Before we begin, ensure you have the following:

- A Mac running macOS 10.15 (Catalina) or later.
- An internet connection.
- Basic understanding of the terminal.

Chapter 3. Installing GIT

Installing Git

Git is a version control system essential for managing code.

1. In the Terminal, install Git using Homebrew:

   ```
   brew install git
   ```

2. Verify the installation:

   ```
   git --version
   ```

Chapter 4. Installing Homebrew

Installing Homebrew

Homebrew is a package manager for macOS that simplifies the installation of software

1. Open the Terminal app.
2. Install Homebrew by pasting the following command and pressing Enter:

```
/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```

3. Follow the on-screen instructions to complete the installation.
4. Verify the installation by typing:

```
brew --version
```

Chapter 5. Installing VS Code

Installing Visual Studio Code

Visual Studio Code is a powerful and flexible code editor.

1. Download VS Code from the official website.
2. Open the downloaded file and drag VS Code to the Applications folder.
3. Launch VS Code from the Applications folder.

Chapter 6. Setting Up Python Environment in VS Code Topic File

Setting Up a Python Environment in Visual Studio Code

Python is a popular programming language for various applications.

1. Install Python using Homebrew:

   ```
   brew install python
   ```

2. Open VS Code and install the Python extension:
   a. Go to the Extensions view by clicking the square icon in the sidebar.
   b. Search for "Python" and install the extension by Microsoft.
3. Configure the Python interpreter:
   a. Open the Command Palette (Cmd+Shift+P) and type "Python: Select Interpreter".
   b. Select the installed Python interpreter.

Chapter 7. Configuring Extensions in VS Code Topic File

Configuring Extensions in Visual Studio Code

Extensions enhance the functionality of VS Code.

1. Recommended extensions:
    - **Python**: for Python development.
    - **GitLens**: for enhanced Git capabilities.
    - **Prettier**: for code formatting.
2. Install these extensions from the Extensions view.

Chapter 8. Conclusion