

LAPORAN PRAKTIKUM
PERANCANGAN DAN PEMROGRAMAN WEB

MODUL 1
(INSTALASI)



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BAB I

PENDAHULUAN

1.1 Dasar Teori

Sebelum membuat dan menjalankan aplikasi berbasis web, kita membutuhkan beberapa software pendukung. Visual Studio Code digunakan sebagai text editor untuk menulis kode program. XAMPP berfungsi sebagai web server lokal yang terdiri dari Apache, MySQL, dan PHP sehingga kita bisa menjalankan aplikasi di komputer sendiri. Sedangkan Git digunakan untuk version control, agar pekerjaan pemrograman bisa lebih teratur dan mudah dikelola.

1.2 Tujuan

- 2 Menyiapkan tools utama yang dibutuhkan dalam pemrograman web.
- 3 Mengetahui cara instalasi dan penggunaan awal Visual Studio Code, XAMPP, dan Git.
- 4 Membiasakan diri dengan lingkungan pengembangan web.

4.1 Manfaat

Dengan melakukan instalasi software pendukung ini, mahasiswa bisa langsung mempraktikkan pemrograman web di komputer pribadi. Selain itu, mahasiswa juga memahami fungsi masing-masing tools dan cara menggunakannya untuk pengembangan web yang lebih terstruktur.

BAB II

HASIL PRAKTIKUM

2.1 INSTALASI VISUAL STUDIO CODE

The image shows two screenshots of the Visual Studio Code website. The top screenshot is the 'Download Visual Studio Code' page, which features the Visual Studio Code logo and navigation links (Docs, Updates, Blog, API, Extensions, MCP, FAQ, Dev Days). The main heading is 'Download Visual Studio Code' with the tagline 'Free and built on open source. Integrated Git, debugging and extensions.' Below this, there are three main sections for different operating systems: Windows (with a Windows logo), Linux (with a Tux penguin logo), and Mac (with an Apple logo). Each section has a 'Download' button and a list of available download methods (User Installer, System Installer, .zip, CLI) and their supported architectures (x64, ARM64). The bottom screenshot is the 'Visual Studio Code documentation' page, which has a sidebar with a table of contents (Overview, SETUP, GET STARTED, CONFIGURE, EDIT CODE, BUILD, DEBUG, TEST, GITHUB COPILOT, SOURCE CONTROL, TERMINAL, LANGUAGES, NODE.JS / JAVASCRIPT, TYPESCRIPT, PYTHON, JAVA, C++, C#). The main content area has a green banner that says 'Thanks for downloading VS Code!' and a link to 'direct download link'. Below this is the 'Visual Studio Code documentation' section, which includes a 'Getting started' section with three cards: 'Set up Visual Studio Code', 'Getting started', and 'Code faster with AI'.

Visual Studio Code Docs Updates Blog API Extensions MCP FAQ Dev Days

Join a [VS Code Dev Days event](#) near you to learn about AI-assisted development in VS Code.

Download Visual Studio Code

Free and built on open source. Integrated Git, debugging and extensions.

Windows
Windows 10, 11

Linux
Debian, Ubuntu Red Hat, Fedora, SUSE

Mac
macOS 11.0+

User Installer x64 ARM64
System Installer x64 ARM64
.zip x64 ARM64
CLI x64 ARM64

.deb x64 ARM32 ARM64
.rpm x64 ARM32 ARM64
.tar.gz x64 ARM32 ARM64
Snap Snap Store
CLI x64 ARM32 ARM64

.zip Intel chip Apple silicon Universal
CLI Intel chip Apple silicon

By downloading and using Visual Studio Code, you agree to the [license terms](#) and [privacy statement](#).

Visual Studio Code Docs Updates Blog API Extensions MCP FAQ Dev Days

Join a [VS Code Dev Days event](#) near you to learn about AI-assisted development in VS Code.

Visual Studio Code documentation

Get familiar with Visual Studio Code and learn how to code faster with AI.

Getting started

Set up Visual Studio Code
Follow the setup guide to install and configure VS Code for your OS.

Getting started
Discover the key features of VS Code with the step-by-step tutorial.

Code faster with AI
Get started with GitHub Copilot, your AI coding assistant.


2.2 INSTALASI XAMPP

Apache FriendsDownloadHostingCommunityAbout

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Download

XAMPP is an easy to install Apache distribution containing MariaDB, PHP, and Perl. Just download and start the installer. It's that easy. Installers created using [InstallBuilder](#).

 **XAMPP for Windows 8.0.30, 8.1.25 & 8.2.12**

Version	Checksum	Size
8.0.30 / PHP 8.0.30	What's Included? md5 sha1 Download (64 bit)	144 Mb
8.1.25 / PHP 8.1.25	What's Included? md5 sha1 Download (64 bit)	148 Mb
8.2.12 / PHP 8.2.12	What's Included? md5 sha1 Download (64 bit)	149 Mb

[Requirements](#) [More Downloads »](#)

Windows XP or 2003 are not supported. You can download a compatible version of XAMPP for these platforms [here](#).

Documentation/FAQs

There is no real manual or handbook for XAMPP. We wrote the documentation in the form of FAQs. Have a burning question that's not answered here? Try the Forums or [Stack Overflow](#).

- [Linux FAQs](#)
- [Windows FAQs](#)
- [OS X FAQs](#)

XAMPP Control Panel v3.3.0 [Compiled: Apr 6th 2021]

 **XAMPP Control Panel v3.3.0**

Service	Module	PID(s)	Port(s)	Actions
Apache				Start Admin Config Logs
MySQL				Start Admin Config Logs
FileZilla				Start Admin Config Logs
Mercury				Start Admin Config Logs
Tomcat				Start Admin Config Logs

09:50:18 [main] Initializing Control Panel

09:50:18 [main] Windows Version: Home 64-bit

09:50:18 [main] XAMPP Version: 8.2.12

09:50:18 [main] Control Panel Version: 3.3.0 [Compiled: Apr 6th 2021]

09:50:18 [main] You are not running with administrator rights! This will work for most application stuff but whenever you do something with services there will be a security dialogue or things will break! So think about running this application with administrator rights!

09:50:18 [main] XAMPP Installation Directory: "c:\xampp"

09:50:18 [main] Checking for prerequisites

09:50:19 [main]

[Config](#) [Shell](#) [Explorer](#) [Services](#) [Help](#) [Quit](#)

ity About

Search...SearchEN

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[Requirements](#) [More Downloads »](#)

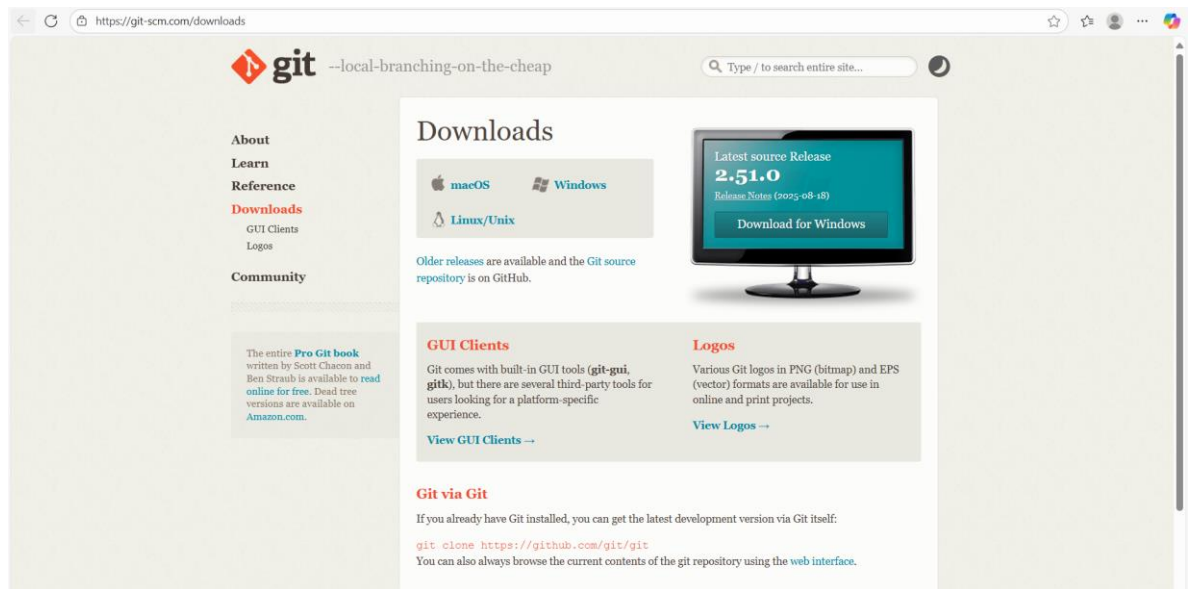
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- [Windows FAQs](#)
- [OS X FAQs](#)

2.3 INSTALASI GIT



BAB III

KESIMPULAN & SARAN

3.1 Kesimpulan

Dari praktikum ini dapat disimpulkan bahwa instalasi Visual Studio Code, XAMPP, dan Git merupakan langkah awal yang penting sebelum melakukan pemrograman web. Ketiga tools ini saling mendukung, yaitu sebagai editor, server lokal, dan pengatur versi kode.

3.2 Saran

Sebaiknya sebelum melakukan praktikum pemrograman web, mahasiswa memastikan semua tools sudah terinstal dengan benar. Selain itu, disarankan juga untuk mempelajari fitur dasar dari masing-masing software agar lebih lancar dalam praktikum selanjutnya.