Visual Studio Code (VSCode) - Metadata Report

1. Basic Information

Field	Details
Tool Name	Visual Studio Code (VSCode)
Overview Description	Visual Studio Code is a free, open-source code editor developed by Microsoft. It features IntelliSense code completion, debugging, Git integration, extensions, and support for multiple programming languages.
Key Features	IntelliSense code completion and syntax highlighting, Built-in Git version control integration, Extensive extension marketplace with thousands of extensions, Integrated terminal and debugging tools, Multi-language support with custom themes and syntax highlighting, Live Share for real-time collaboration, Integrated source control management, Customizable workspace and user interface, Extensive keyboard shortcuts and productivity features, Built-in support for TypeScript, JavaScript, and Node.js
Supported Platforms	Windows 10 and newer, macOS 10.15 (Catalina) and newer, Linux (Ubuntu, Debian, Red Hat, Fedora, SUSE)

2. Technical Specifications

Field	Details
System Requirements	Windows 10+, macOS 10.14+, Linux, 4GB RAM
Performance Considerations	Lightweight editor with fast startup, extension ecosystem may impact performance
Supported Languages	JavaScript, TypeScript, Python, Java, C++, C#, PHP, Go, Rust, Ruby, Swift, HTML, CSS, JSON, XML, Markdown, SQL, Docker, Kubernetes, Azure, AWS, Google Cloud, React, Angular, Vue.js, Node.js, .NET
Supported File Formats	All text files, Code files, Configuration files
Hardware Requirements	4GB RAM minimum, modern CPU, sufficient disk space
Network Requirements	Internet connection for extensions and updates

3. Setup and Installation

Field	Details
Installation Setup	Step 1: Download Visual Studio Code from the official website (code.visualstudio.com), Install extensions from the marketplace for additional functionality, Configure settings and keyboard shortcuts for optimal workflow, Set up Git integration for version control, Install language-specific extensions for your development needs Commands: git clone [repository-url] cd [project-directory] pip install -r requirements.txt
Configuration Guide	Comprehensive configuration guide available in official documentation

Quick Start Tutorial	Quick start tutorial available in official documentation and tutorials
Environment Setup	Environment setup instructions available in official documentation
Dependency Management	Dependency management tools and best practices available in documentation
Installation Commands	Installation commands available in official documentation and setup guides
Setup Steps	Detailed setup steps available in official documentation
Verification Commands	Verification commands available in official documentation

4. Documentation and Learning

Field	Details
Community Tutorials	Community tutorials available on GitHub, YouTube, and blogs
API Reference	https://code.visualstudio.com/api
Video Tutorials	Video tutorials available on YouTube and official channels
Sample Projects	Sample projects available on GitHub and official repositories

5. Community and Support

Field	Details
Community Support	Active community with forums, Discord, and GitHub discussions
Forums and Channels	Official forums, Reddit communities, Discord servers, Stack Overflow
Support Channels	Official support channels, Community forums, GitHub issues
User Groups	Local user groups, Meetup communities, Professional networks

6. Legal and Versioning

Field	Details
Licensing	MIT License
Version History	Comprehensive version history and changelog available
Update Policy	Regular update schedule with security and feature updates
End of Life	Long-term support with clear end-of-life policies

7. References and Links

Field	Details
Download Links	https://code.visualstudio.com/download
Demo Links	Live demos available on official website

8. Creative and Media Tools Features

Feature	Details
Supported Media Formats	All text files, Code files, Configuration files

9. Developer Tools Features

Feature	Details
Language Support	1. JavaScript, TypeScript, Python, Java, C++, C#, PHP, Go, Rust, Ruby, Swift 2. HTML, CSS, JSON, XML, Markdown, SQL 3. Docker, Kubernetes, Azure, AWS, Google Cloud 4. React, Angular, Vue.js, Node.js, .NET