

## WORD LIST PDF

# Software Development Vocabulary List

Learn essential software development vocabulary with clear meanings, real-world examples, and related terms across programming, software architecture, development workflows, testing, DevOps, deployment, databases, APIs, and technical operations.

**CATEGORY**

**Technology & Innovation**

**LEVEL**

**Intermediate**

**WORDS**

**98**

Software development vocabulary is essential for understanding how modern applications, websites, digital platforms, and technical systems are built, tested, improved, and maintained. From core programming ideas like variables, algorithms, syntax, and data structures to practical concepts such as APIs, frameworks, version control, testing, deployment, and DevOps, these terms appear in real-world conversations across education, technology, business, and professional work environments. This software development vocabulary list brings together carefully selected words related to programming fundamentals, software architecture, development workflows, quality assurance, debugging, databases, technical operations, and modern engineering practices. Whether you are a beginner learning basic terms like “source code,” “frontend,” and “backend” or an advanced learner exploring concepts like “microservices,” “polymorphism,” “CI/CD,” and “technical debt,” this list helps you build strong, practical vocabulary for real-world use. Use this page to improve your speaking, reading, writing, and overall understanding of software and technology-related English. Each word is designed to be clear, useful, and easy to connect with real development contexts — helping learners, students, job seekers, and professionals communicate more confidently in the world of software development.



## OVERVIEW

## Resource Summary

A quick overview of this LVF resource before you move into the lesson or vocabulary pages.

### At a glance

- **Resource Type:** Word List PDF
- **Category:** Technology & Innovation
- **Level:** Intermediate
- **Total Words:** 98
- **Basic Words:** 32
- **Intermediate Words:** 42
- **Advanced Words:** 24
- **Brand:** LearnVocabularyFree.com

### How to use this PDF

1. Read the definitions carefully.
2. Review examples and usage notes.
3. Try the practice section independently.
4. Check the answer key for self-review.

## STARTER LIST

## Words you will meet in this PDF (but not limited to)

- **Abstraction** — The practice of hiding unnecessary details and showing only the essential features of something.
- **Agile** — A software development approach that emphasizes iterative work, flexibility, collaboration, and frequent feedback.
- **Algorithm** — A step-by-step method or set of rules used to solve a problem or complete a task.
- **API (Application Programming Interface)** — A defined set of rules that allows one software system to communicate with another.
- **API Integration** — The process of connecting one system with another by using APIs to exchange data or services.
- **Authentication** — The process of verifying that a user or system is really who it claims to be.
- **Authorization** — The process of deciding what an authenticated user or system is allowed to access or do.
- **Automated Testing** — The use of scripts or tools to run tests automatically instead of manually.

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## Abstraction

NOUN

ADVANCED

### MEANING

The practice of hiding unnecessary details and showing only the essential features of something.

### EXAMPLE

Abstraction helps developers work with complex systems more easily.

### SYNONYMS

simplification

concealment of complexity

### ANTONYMS

exposure of detail

## Agile

NOUN

BASIC

### MEANING

A software development approach that emphasizes iterative work, flexibility, collaboration, and frequent feedback.

### EXAMPLE

The team used Agile practices to release features in smaller batches.

### SYNONYMS

iterative development

### ANTONYMS

waterfall

## Algorithm

NOUN

INTERMEDIATE

### MEANING

A step-by-step method or set of rules used to solve a problem or complete a task.

### EXAMPLE

The search algorithm returns the most relevant results first.

### SYNONYMS

procedure

method

logic

## API (Application Programming Interface)

NOUN

BASIC

### MEANING

A defined set of rules that allows one software system to communicate with another.

### EXAMPLE

The weather app uses an API to get live forecast data.

### SYNONYMS

application interface

# Software Development Vocabulary List

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## API Integration

NOUN

INTERMEDIATE

### MEANING

The process of connecting one system with another by using APIs to exchange data or services.

### EXAMPLE

API integration allowed the app to connect with the payment gateway.

### SYNONYMS

system integration

## Authentication

NOUN

INTERMEDIATE

### MEANING

The process of verifying that a user or system is really who it claims to be.

### EXAMPLE

Two-factor authentication adds an extra layer of login security.

### SYNONYMS

identity verification

## Authorization

NOUN

INTERMEDIATE

### MEANING

The process of deciding what an authenticated user or system is allowed to access or do.

### EXAMPLE

Authorization rules prevented the user from editing admin settings.

### SYNONYMS

access control

permission checking

## Automated Testing

NOUN

INTERMEDIATE

### MEANING

The use of scripts or tools to run tests automatically instead of manually.

### EXAMPLE

Automated testing reduced repetitive QA work.

### SYNONYMS

test automation

### ANTONYMS

manual testing

# Software Development Vocabulary List

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## Backend

NOUN

BASIC

### MEANING

The server-side part of an application that handles data, business logic, and system operations.

### EXAMPLE

The backend processes user requests and stores data in the database.

### SYNONYMS

server side

### ANTONYMS

frontend

## Branching

NOUN

INTERMEDIATE

### MEANING

The practice of creating separate lines of development in version control so work can happen independently.

### EXAMPLE

Branching helps teams build features without affecting the main code immediately.

### SYNONYMS

creating branches

## Bug

NOUN

BASIC

### MEANING

An error or flaw in software that causes incorrect or unexpected behavior.

### EXAMPLE

A bug prevented users from submitting the form.

### SYNONYMS

error

issue

fault

## Build Process

NOUN

INTERMEDIATE

### MEANING

The sequence of steps that transforms source code into a runnable or deployable application.

### EXAMPLE

The build process compiles the code, runs tests, and creates the final package.

### SYNONYMS

build pipeline

# Software Development Vocabulary List

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## CI/CD

NOUN

INTERMEDIATE

### MEANING

A set of practices that automate code integration, testing, and deployment.

### EXAMPLE

The company uses CI/CD to release updates more safely and quickly.

### SYNONYMS

delivery pipeline

## Code Review

NOUN

BASIC

### MEANING

The process of examining code written by someone else to improve quality, correctness, and maintainability.

### EXAMPLE

Code review caught a security issue before release.

### SYNONYMS

peer review of code

## Command Line Interface (CLI)

NOUN

INTERMEDIATE

### MEANING

A text-based interface where users type commands to interact with a computer or software tool.

### EXAMPLE

The deployment script was run through the command line interface.

### SYNONYMS

CLI terminal interface

### ANTONYMS

graphical user interface

## Compiler

NOUN

INTERMEDIATE

### MEANING

A program that translates source code into machine code or another lower-level form before execution.

### EXAMPLE

The compiler showed an error in the C++ file.

### SYNONYMS

code translator

### ANTONYMS

interpreter

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## Constant

NOUN

BASIC

### MEANING

A value in a program that does not change after it is defined.

### EXAMPLE

The speed of light may be represented as a constant in a physics program.

### SYNONYMS

fixed value

### ANTONYMS

variable

## Container (Docker)

NOUN

INTERMEDIATE

### MEANING

A lightweight isolated unit that packages software and its dependencies so it runs consistently across environments.

### EXAMPLE

The app was shipped in a container for easier deployment.

### SYNONYMS

Docker container

## Continuous Deployment

NOUN

INTERMEDIATE

### MEANING

The practice of automatically releasing tested code changes to production.

### EXAMPLE

Continuous Deployment allowed bug fixes to go live within minutes.

### SYNONYMS

CD

## Continuous Integration

NOUN

INTERMEDIATE

### MEANING

The practice of frequently merging code changes into a shared repository and testing them automatically.

### EXAMPLE

Continuous Integration helps teams catch issues early.

### SYNONYMS

CI

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## Control Flow

NOUN

INTERMEDIATE

### MEANING

The order in which instructions, decisions, and loops are executed in a program.

### EXAMPLE

Control flow changes when an if statement evaluates to true.

### SYNONYMS

execution flow

## Data Structure

NOUN

INTERMEDIATE

### MEANING

A way of organizing and storing data so it can be used efficiently.

### EXAMPLE

An array is one of the most common data structures.

### SYNONYMS

data organization model

## Data Type

NOUN

BASIC

### MEANING

A classification that tells the program what kind of value a variable can store, such as text, number, or boolean.

### EXAMPLE

An integer is a common data type for counting items.

### SYNONYMS

type

value category

## Database

NOUN

BASIC

### MEANING

An organized collection of data stored electronically for easy access, management, and updating.

### EXAMPLE

User account details are stored in the database.

### SYNONYMS

data store

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## Debugging

NOUN

BASIC

### MEANING

The process of finding and fixing errors in software.

### EXAMPLE

Debugging the payment issue took most of the afternoon.

### SYNONYMS

troubleshooting

bug fixing

## Defect

NOUN

INTERMEDIATE

### MEANING

A problem in software that makes it behave differently from the expected result.

### EXAMPLE

The defect was logged and assigned to the backend team.

### SYNONYMS

bug

fault

## Dependency Management

NOUN

ADVANCED

### MEANING

The process of handling the external libraries, packages, and versions that a software project depends on.

### EXAMPLE

Dependency management helps avoid version conflicts in large projects.

### SYNONYMS

package management

## Deployment

NOUN

BASIC

### MEANING

The process of releasing software so it becomes available in a target environment.

### EXAMPLE

Friday's deployment included three bug fixes and one new feature.

### SYNONYMS

release

rollout

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## Development Methodology

**NOUN**

**INTERMEDIATE**

### MEANING

A structured approach used to plan, organize, and manage software development work.

### EXAMPLE

The company adopted a flexible development methodology for faster releases.

### SYNONYMS

development approach

process model

## DevOps

**NOUN**

**INTERMEDIATE**

### MEANING

A culture and practice that combines software development and IT operations to improve delivery speed and reliability.

### EXAMPLE

DevOps reduced the time between coding and deployment.

### SYNONYMS

development-operations practice

## Documentation

**NOUN**

**BASIC**

### MEANING

Written information that explains how software works, how to use it, or how to maintain it.

### EXAMPLE

Good documentation helps new developers onboard faster.

### SYNONYMS

technical docs

reference material

## Edge Case

**NOUN**

**ADVANCED**

### MEANING

A rare or unusual situation that occurs at the extreme boundaries of normal operating conditions.

### EXAMPLE

The checkout failed for the edge case of a zero-value order.

### SYNONYMS

boundary scenario

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## Encapsulation

NOUN

ADVANCED

### MEANING

The OOP principle of bundling data and methods together while restricting direct access to some details.

### EXAMPLE

Encapsulation protects internal data from unintended changes.

### SYNONYMS

data hiding

## Encryption

NOUN

INTERMEDIATE

### MEANING

The process of converting data into a secure unreadable form to protect it from unauthorized access.

### EXAMPLE

Encryption helps protect sensitive user data in transit and at rest.

### SYNONYMS

data encoding

### ANTONYMS

decryption

## Endpoint

NOUN

INTERMEDIATE

### MEANING

A specific URL or access point where an API can receive requests or return data.

### EXAMPLE

The login endpoint returns a token after successful authentication.

### SYNONYMS

API route

service endpoint

## Environment

NOUN

BASIC

### MEANING

A configured setup in which software runs, such as local, staging, or production.

### EXAMPLE

The issue appeared only in the staging environment.

### SYNONYMS

runtime setup

deployment environment

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## Framework

NOUN

BASIC

### MEANING

A reusable foundation that provides structure and tools for building software.

### EXAMPLE

Django is a popular framework for web development.

### SYNONYMS

development framework

## Frontend

NOUN

BASIC

### MEANING

The user-facing part of an application that people see and interact with directly.

### EXAMPLE

The frontend team improved the navigation menu for mobile users.

### SYNONYMS

client side

user interface layer

### ANTONYMS

backend

## Full Stack

ADJECTIVE

INTERMEDIATE

### MEANING

Related to both frontend and backend development together.

### EXAMPLE

A full stack developer can work on the interface and the server logic.

### SYNONYMS

end-to-end development

## Functional Programming

NOUN

ADVANCED

### MEANING

A programming style that focuses on pure functions, immutability, and predictable output.

### EXAMPLE

Functional programming is common in languages like Haskell and Elixir.

### SYNONYMS

functional style

### ANTONYMS

imperative programming

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## Git

NOUN

BASIC

### MEANING

A distributed version control system used to track code changes and support collaboration.

### EXAMPLE

The developer used Git to create a new branch for the feature.

### SYNONYMS

version control tool

## GitHub

NOUN

BASIC

### MEANING

A web-based platform for hosting Git repositories and collaborating on software projects.

### EXAMPLE

The open-source project is hosted on GitHub.

### SYNONYMS

code hosting platform

## High Availability

NOUN

ADVANCED

### MEANING

The ability of a system to remain operational and accessible with minimal downtime.

### EXAMPLE

High availability is essential for banking and health-care systems.

### SYNONYMS

fault tolerance

reliability

### ANTONYMS

downtime-prone operation

## IDE (Integrated Development Environment)

NOUN

BASIC

### MEANING

A software application that provides tools for writing, testing, and debugging code in one place.

### EXAMPLE

The developer used an IDE to write and debug Python code.

### SYNONYMS

development environment

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## Inheritance

NOUN

ADVANCED

### MEANING

The OOP feature that allows one class to reuse properties and behavior from another class.

### EXAMPLE

Inheritance reduced duplicate code in the application.

### SYNONYMS

class reuse

## Integration Testing

NOUN

INTERMEDIATE

### MEANING

Testing how multiple components or services work together as a group.

### EXAMPLE

Integration testing revealed an API mismatch between two services.

### SYNONYMS

system integration testing

## Interpreter

NOUN

INTERMEDIATE

### MEANING

A program that reads and executes code line by line or statement by statement.

### EXAMPLE

Python commonly runs through an interpreter.

### SYNONYMS

runtime translator

### ANTONYMS

compiler

## JSON

NOUN

BASIC

### MEANING

A lightweight text format used to store and exchange structured data.

### EXAMPLE

The API returns user data in JSON format.

### SYNONYMS

JavaScript Object Notation

### ANTONYMS

XML

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## Kanban

NOUN

INTERMEDIATE

### MEANING

A workflow method that visualizes tasks on a board and focuses on continuous delivery and work limits.

### EXAMPLE

The support team used Kanban to track incoming issues.

### SYNONYMS

visual workflow method

## Latency

NOUN

ADVANCED

### MEANING

The delay between sending a request and receiving a response in a system or network.

### EXAMPLE

High latency made the app feel slow to users.

### SYNONYMS

delay

response lag

### ANTONYMS

low delay

## Legacy Code

NOUN

ADVANCED

### MEANING

Old existing code that is still in use, often difficult to understand, modify, or modernize.

### EXAMPLE

The team was cautious when changing the legacy code.

### SYNONYMS

old codebase

inherited code

### ANTONYMS

greenfield code

## Library

NOUN

BASIC

### MEANING

A collection of prewritten code that developers can reuse in their programs.

### EXAMPLE

The chart library made data visualization much easier.

### SYNONYMS

code library

package

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## Local

**NOUN**

**BASIC**

### MEANING

The environment running on a developer's own computer.

### EXAMPLE

The feature worked in local but failed in staging.

### SYNONYMS

local environment

### ANTONYMS

production

## Logic

**NOUN**

**BASIC**

### MEANING

The reasoning and conditions that determine how a program behaves.

### EXAMPLE

The app failed because the login logic was incomplete.

### SYNONYMS

reasoning

program flow rules

## Merge Request

**NOUN**

**INTERMEDIATE**

### MEANING

A request to review and merge code changes, commonly used on platforms such as GitLab.

### EXAMPLE

The merge request included comments from two reviewers.

### SYNONYMS

MR

## Merging

**NOUN**

**INTERMEDIATE**

### MEANING

The process of combining code changes from one branch into another.

### EXAMPLE

The team completed the merging process after all tests passed.

### SYNONYMS

code integration

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## Microservices

NOUN

ADVANCED

### MEANING

An architectural approach where an application is built as a collection of small independent services.

### EXAMPLE

The company moved from a monolith to microservices for better scalability.

### SYNONYMS

service-based architecture

### ANTONYMS

monolith

## Middleware

NOUN

ADVANCED

### MEANING

Software that connects different applications, services, or components and helps them work together.

### EXAMPLE

The middleware handled authentication between the client and the server.

### SYNONYMS

integration layer

## Monolith

NOUN

ADVANCED

### MEANING

A software architecture where all components of an application are built and deployed as one large unit.

### EXAMPLE

The legacy system was a monolith that was hard to update quickly.

### SYNONYMS

monolithic application

### ANTONYMS

microservices

## MVC (Model-View-Controller)

NOUN

ADVANCED

### MEANING

A software design pattern that separates application data, user interface, and control logic.

### EXAMPLE

MVC helps developers organize code more clearly in web applications.

### SYNONYMS

MVC pattern

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## NoSQL

**NOUN**

**INTERMEDIATE**

### MEANING

A category of databases designed for flexible, non-relational data storage and large-scale systems.

### EXAMPLE

The team chose a NoSQL database for fast-changing document data.

### SYNONYMS

non-relational database model

### ANTONYMS

SQL

## Object-Oriented Programming (OOP)

**NOUN**

**INTERMEDIATE**

### MEANING

A programming style that organizes code around objects containing data and behavior.

### EXAMPLE

Java is often used to teach object-oriented programming concepts.

### SYNONYMS

OOP

### ANTONYMS

procedural programming

## Orchestration (Kubernetes)

**NOUN**

**ADVANCED**

### MEANING

The automated management of containers, including deployment, scaling, and coordination, often using Kubernetes.

### EXAMPLE

Kubernetes handles orchestration for the company's microservices.

### SYNONYMS

container orchestration

## Performance Testing

**NOUN**

**INTERMEDIATE**

### MEANING

Testing that measures speed, responsiveness, stability, or resource usage under workload.

### EXAMPLE

Performance testing showed that the API slowed down under heavy traffic.

### SYNONYMS

load and performance evaluation

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## Polymorphism

NOUN

ADVANCED

### MEANING

The OOP ability for different objects or methods to be used through a common interface in different ways.

### EXAMPLE

Polymorphism lets the same method name behave differently in related classes.

### SYNONYMS

multiple-form behavior

## Production

NOUN

BASIC

### MEANING

The live environment where real users access the software.

### EXAMPLE

A hotfix was deployed directly to production.

### SYNONYMS

live environment

### ANTONYMS

staging

local

## Programming

NOUN

BASIC

### MEANING

The process of writing instructions that tell a computer what to do.

### EXAMPLE

Programming allows developers to build websites, apps, and software tools.

### SYNONYMS

coding

software creation

## Pull Request

NOUN

INTERMEDIATE

### MEANING

A request to review and merge code changes from one branch into another, commonly used on GitHub.

### EXAMPLE

She opened a pull request for the new login feature.

### SYNONYMS

PR

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## QA (Quality Assurance)

NOUN

BASIC

### MEANING

The short form of quality assurance, often referring to the team or process responsible for maintaining software quality.

### EXAMPLE

QA verified the release candidate before launch.

### SYNONYMS

quality assurance

## Quality Assurance

NOUN

INTERMEDIATE

### MEANING

The overall process of ensuring software quality through standards, reviews, and testing practices.

### EXAMPLE

Quality assurance improves reliability before release.

### SYNONYMS

QA

## Recursion

NOUN

ADVANCED

### MEANING

A programming technique where a function calls itself to solve smaller versions of the same problem.

### EXAMPLE

Recursion is often used in tree traversal algorithms.

### SYNONYMS

self-calling function logic

## Refactoring

NOUN

ADVANCED

### MEANING

Improving the internal structure of code without changing its external behavior.

### EXAMPLE

Refactoring made the module easier to maintain.

### SYNONYMS

code cleanup

structural improvement

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## Regression Testing

**NOUN**

**INTERMEDIATE**

### MEANING

Testing done to make sure recent changes have not broken existing features.

### EXAMPLE

Regression testing is essential before every major release.

### SYNONYMS

retest after change

## Repository

**NOUN**

**BASIC**

### MEANING

A storage location where code, files, and project history are kept.

### EXAMPLE

The repository contains the full project and its version history.

### SYNONYMS

repo

codebase store

## Scalability

**NOUN**

**ADVANCED**

### MEANING

The ability of a system to handle increasing amounts of work or users without failing.

### EXAMPLE

Cloud infrastructure improved the app's scalability.

### SYNONYMS

growth capacity

### ANTONYMS

rigidity

## Schema

**NOUN**

**INTERMEDIATE**

### MEANING

A structured definition of how data is organized, such as tables, fields, or document formats.

### EXAMPLE

The schema was updated to include a new address field.

### SYNONYMS

data model

structure definition

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## Scrum

**NOUN**

**INTERMEDIATE**

### MEANING

An Agile framework that organizes work into small time-boxed iterations called sprints.

### EXAMPLE

The team held a daily Scrum meeting to discuss progress.

### SYNONYMS

Scrum framework

## SDK (Software Development Kit)

**NOUN**

**INTERMEDIATE**

### MEANING

A package of tools, libraries, and documentation used to build software for a specific platform or service.

### EXAMPLE

The mobile SDK helped the team add payment features quickly.

### SYNONYMS

development kit

## SDLC (Software Development Life Cycle)

**NOUN**

**INTERMEDIATE**

### MEANING

The full process of planning, designing, building, testing, deploying, and maintaining software.

### EXAMPLE

Testing is one important stage in the SDLC.

### SYNONYMS

software life cycle

development life cycle

## Serverless

**ADJECTIVE**

**ADVANCED**

### MEANING

A cloud execution model where developers run code without managing the underlying servers directly.

### EXAMPLE

The image-processing feature was built on a serverless platform.

### SYNONYMS

serverless computing

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## Software Design Pattern

NOUN

ADVANCED

### MEANING

A reusable general solution to a common software design problem.

### EXAMPLE

The singleton is a well-known software design pattern.

### SYNONYMS

design pattern

## Source Code

NOUN

BASIC

### MEANING

The human-readable code written by developers in a programming language.

### EXAMPLE

The team reviewed the source code before releasing the new version.

### SYNONYMS

code

program text

### ANTONYMS

machine code

## Sprint

NOUN

BASIC

### MEANING

A fixed short period in Agile development during which a team completes planned work.

### EXAMPLE

The team finished three key features in the last sprint.

### SYNONYMS

iteration

## SQL

NOUN

BASIC

### MEANING

A language used to store, retrieve, and manage data in relational databases.

### EXAMPLE

The analyst used SQL to query customer records.

### SYNONYMS

Structured Query Language

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## Staging

NOUN

INTERMEDIATE

### MEANING

A pre-production environment used to test software in conditions similar to production.

### EXAMPLE

The release candidate was deployed to staging first.

### SYNONYMS

pre-production

### ANTONYMS

local

## Syntax

NOUN

BASIC

### MEANING

The set of rules that defines how code must be written in a programming language.

### EXAMPLE

A missing bracket caused a syntax error in the script.

### SYNONYMS

grammar

code structure

## Technical Debt

NOUN

ADVANCED

### MEANING

The future cost created when developers choose a quick or limited solution instead of a cleaner long-term one.

### EXAMPLE

Skipping refactoring added technical debt to the codebase.

### SYNONYMS

code debt

## Test Coverage

NOUN

ADVANCED

### MEANING

A measure of how much of the code or functionality is tested.

### EXAMPLE

The team improved test coverage before the next release.

### SYNONYMS

coverage level

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## Testing

NOUN

BASIC

### MEANING

The process of checking whether software works correctly and meets requirements.

### EXAMPLE

Testing revealed several issues in the payment workflow.

### SYNONYMS

software validation

quality checking

## Throughput

NOUN

ADVANCED

### MEANING

The amount of data or number of operations a system can process in a given time.

### EXAMPLE

The upgrade increased the server's throughput during peak traffic.

### SYNONYMS

processing rate

capacity

## Unit Testing

NOUN

INTERMEDIATE

### MEANING

Testing individual functions, methods, or components in isolation.

### EXAMPLE

Unit testing helped confirm that the calculation function worked correctly.

### SYNONYMS

unit-level testing

## User Acceptance Testing (UAT)

NOUN

INTERMEDIATE

### MEANING

The stage where real users or business stakeholders confirm that the software meets their needs.

### EXAMPLE

The product passed user acceptance testing before launch.

### SYNONYMS

UAT

business acceptance testing

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## UVT

NOUN

ADVANCED

### MEANING

A validation-focused testing stage used to confirm that a feature or release behaves as expected in intended user or business scenarios.

### EXAMPLE

The team scheduled UVT before approving the final release.

### SYNONYMS

validation testing

## Variable

NOUN

BASIC

### MEANING

A named storage location in a program that can hold a value that may change.

### EXAMPLE

The variable stores the user's email address.

### SYNONYMS

data holder

identifier

### ANTONYMS

constant

## Version Control (Git)

NOUN

BASIC

### MEANING

A system for tracking changes to code over time, often using Git as the tool.

### EXAMPLE

Version control made it easy to restore the previous file state.

### SYNONYMS

source control

## Virtual Machine (VM)

NOUN

INTERMEDIATE

### MEANING

A software-based computer that runs like a separate physical machine inside another system.

### EXAMPLE

The application was tested inside a virtual machine.

### SYNONYMS

VM

# Software Development Vocabulary List

Definitions, examples, and related vocabulary prepared in a structured LVF format.

## Waterfall

NOUN

INTERMEDIATE

### MEANING

A linear development methodology where each stage is completed before the next one begins.

### EXAMPLE

Waterfall is often used in projects with fixed requirements.

### SYNONYMS

linear development model

### ANTONYMS

Agile

## XML

NOUN

INTERMEDIATE

### MEANING

A markup language used to structure, store, and transport data in a text format.

### EXAMPLE

Some legacy systems still exchange data using XML.

### SYNONYMS

Extensible Markup Language

### ANTONYMS

JSON

LearnVocabulary



PRACTICE

## Mini Worksheet

Use the meanings and context from this PDF to answer the following practice questions.

1. Write the meaning of *Abstraction* and use it in one sentence.

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.....  
.....

2. Write the meaning of *Agile* and use it in one sentence.

.....  
.....  
.....

3. Write the meaning of *Algorithm* and use it in one sentence.

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.....

4. Write the meaning of *API (Application Programming Interface)* and use it in one sentence.

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.....  
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5. Write the meaning of *API Integration* and use it in one sentence.

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.....  
.....

6. Write the meaning of *Authentication* and use it in one sentence.

.....  
.....  
.....

## ANSWER KEY

## Suggested Answers

These answer points are designed to support self-review and classroom guidance.

### 1. Abstraction

**Meaning:**

The practice of hiding unnecessary details and showing only the essential features of something.

**Example:**

Abstraction helps developers work with complex systems more easily.

### 2. Agile

**Meaning:**

A software development approach that emphasizes iterative work, flexibility, collaboration, and frequent feedback.

**Example:**

The team used Agile practices to release features in smaller batches.

### 3. Algorithm

**Meaning:**

A step-by-step method or set of rules used to solve a problem or complete a task.

**Example:**

The search algorithm returns the most relevant results first.

### 4. API (Application Programming Interface)

**Meaning:**

A defined set of rules that allows one software system to communicate with another.

**Example:**

The weather app uses an API to get live forecast data.

### 5. API Integration

**Meaning:**

The process of connecting one system with another by using APIs to exchange data or services.

**Example:**

API integration allowed the app to connect with the payment gateway.

### 6. Authentication

**Meaning:**

The process of verifying that a user or system is really who it claims to be.

**Example:**

Two-factor authentication adds an extra layer of login security.