

An Assignment on Extracting various artifacts of open source software systems



Course Name: Software Development Project

Course No: CSE 3106

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Azure sdk for java

Artifact name	What is it	Why it is used	How it is created
Commit	Similar to saving a file that's been edited	a commit records changes to one or more files in a branch	Programmers write it
Update min and max	It shows the record in a commit	It have some description and in the code have comment	Written by the programmer
Pull request	It is a proposed change to a repository that is submitted by a user and can be reviewed and merged by project maintainers.	Pull requests are used in collaborative software development, especially in the context of distributed version control systems.	Programmer need to clone the forked repository to the local machine.
Fork	A fork is copy of repository.	Forking a repository allows us to freely experiment with changes without affecting the original project.	It is created by github ,programmer just need to copy the fork repository.
Doc	Documentation for the current repository.	To store advanced documentation for developers of SDK	It involves a simple process of creating a new directory and populating it with the necessary documentation files
Codebase	Implemented software code	Core Executable of the software	Programmers and tools write or create it
Wiki	Collaborative documentation space	Wiki contains useful content and links for users, as well as contributors .	Created and edited by project contributors, usually using a markup language.
Security	It enhancing the security of code	Used to protect user data and preventing	It involves a combination of using

	repositories and the development process.	malicious exploits.	built-in security features provided by GitHub.
Readme	Project introduction and setup instructions	It explains the purpose, goals, and key features of the software.	Created and maintained by project contributors in Markdown or markup language

Code of conduct	It is a set of guidelines or rules that establish the expected behavior and interactions within a project's community	It have pledge to a community a harassment-free experience for everyone, regardless of age, disability, ethnicity, gender identity and expression.	It Created and maintained by developers.
Actions	It refers to a predefined workflow or series of steps that are executed based on events.	Actions is used to automate various tasks and workflows in software development. It provides a flexible and integrated way to set up.	Configured through YAML files defining workflows and actions to be performed.
Projects	It refers to a repository that contains the source code, documentation, and related files for a software development endeavor.	project tables give us a live canvas to filter, sort, and group issues and pull requests	Programmer can create and customize multiple view.
Samples	A compilation of instructions, sample code, and application examples.	To aid in the learning and modification of developers.	From sample data sets, example setups, or short bits of code.
Activity	Record of projectrelated events and changes	Offers insights into the project's recent activities, such as code changes, pull requests, and discussions.	Automatically generated by the platform based on user actions and project events

ChatGPT

Artifact name	What is it	Why it is used	How it is created
Tags	Tags are labels assigned to a particular commit	Tags in GitHub are used for versioning and marking specific points in a project's history, often associated with releases	Created and configured by the repository's maintainers
Issues	Issues in a software development context refer to items or tasks that need attention, tracking, or resolution	To report bugs, propose features, or discuss improvements, providing a structured way for collaboration	Created by the developers
History versions	Its record the version that are updated daily	To get the suitable version to use.	It is created by the developers of the project.
Packages	It refer to versioned and distributable code,libraries that can be easily integrated into other projects.	It created to facilitate code reuse, dependency management, and distribution in a standardized manner	It is created by the programmer
Assets	Usually refers to binary files or other non-code files, such as documents, images, configuration files, or other binary files	Different uses, such as using pictures for UI components or logos, documents for documentation, and configuration files for setup.	Tools for graphic design and text editors are used for documentation.
Branches	Branches in Git are isolated lines of development for separate features, enabling collaborative and independent work on a codebase	Branches are used in version control systems to facilitate parallel development, allowing multiple features, bug fixes, or experiments to be worked on independently	Mainly Created by developers.
Star	It is a way for users to bookmark or show appreciation for an	By this user can rate the project	People who use the project

	old or new project		
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