



Computer Science and Engineering Discipline  
Khulna University, Khulna

Software Development Project  
Course No: CSE 3106

**An Assignment on various Artifacts of Azure  
Java SDK and ChatGPT open  
source software systems.**

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## **Azure Java SDK**

<b>Artifact Name</b>	<b>What is it</b>	<b>Why it is used</b>	<b>How is it created</b>
Source Code	The source code is the set of instructions written in Java that constitute the Azure Java SDK. It includes all the classes, methods, and other code components necessary for the functioning of the SDK.	The source code is the backbone of any software project, and in this case, it defines the functionality and features of the Azure Java SDK. It is used for developing applications that interact with various Azure services programmatically.	The source code is created by a team of developers contributing to the Azure SDK for Java project. Microsoft and the open-source community collaborate to enhance, maintain, and extend the SDK.
Commit Messages	Commit messages are annotations attached to specific sets of changes made to the source code.	Commit messages serve as documentation for changes in the codebase. They help developers understand why certain changes were made, making collaboration and future maintenance more efficient.	Developers write commit messages when they commit changes to the repository.
Branches	Branches are parallel versions of the source code, allowing developers to work on features or fixes independently without affecting the main codebase.	Branches facilitate concurrent development and experimentation. They enable developers to isolate changes and collaborate without interfering with the stability of the main codebase.	Developers create branches using version control systems like Git. They can branch off from the main branch, make changes, and later merge those changes back into the main branch.
Pull Requests	Pull requests are proposed changes submitted by a developer for review.	Pull requests facilitate code review, collaboration, and maintain a clean and stable codebase. They ensure that changes meet project	Various developers initiate pull requests from their branches like 'New Azure VMware events' , 'mgmt, fix, autocent.js package sort'.

		standards and do not introduce errors.	
Tags	Tags are markers used to label specific points in the project's history, often representing releases or important milestones.	Tags provide a way to reference and recreate specific versions of the software.	Tags are created by developers or release managers using version control systems. 'azure-sdk-template-two_1.0.0-beta.3440796', 'azure-sdk-template-three_1.0.0-beta.3440796' etc.
Readme	The README file is a document included in the project's root directory, providing essential information about the project, such as its purpose, installation instructions, and usage guidelines.	The README serves as the first point of contact for potential users and contributors. It helps them understand the project, get started quickly, and find relevant resources.	Project maintainers or contributors create and update the README file manually.
Actions	Actions are automated workflows defined in code. They can be triggered by events, such as code pushes or pull requests, and perform tasks like testing, building, or deploying the software.	Actions automate repetitive tasks, improving efficiency and consistency in development workflows. They help ensure code quality by running tests and other checks automatically.	Developers define actions in configuration files within the project repository.

## ChatGPT

Artifact Name	What is it	Why it is used	How is it created
Source Code	The source code of ChatGPT represents the implementation of the ChatGPT project, mainly based on a programming language Rust.	The source code is the core of the ChatGPT model, responsible for generating responses in natural language. It enables users to	The source code is likely created by a group of contributors involved in the ChatGPT project of Open-AI company.

		interact with the language model and utilize its capabilities.	
Branches	Branches in ChatGPT are parallel versions of the source code, allowing for independent development of features or bug fixes.	Branches enable developers to work on different aspects of the project simultaneously without interfering with the stability of the main codebase.	Developers create branches using version control systems like Git.
Tags	Tags in ChatGPT are markers used to label specific points in the project's history, often associated with releases or important milestones.	Tags are essential for tracking releases and ensuring reproducibility.	Tags are typically created by developers or release managers using version control systems like v1.1.0, v1.0.0, v0.12.0.
Commit Messages	Refer to the annotations attached to specific changes made to the source code.	Commit messages serve as documentation for changes, making it easier for collaborators to understand the history of the codebase and the reasons behind specific modifications.	Developers and contributors create commit messages when making changes to the codebase.
Pull Requests	Pull requests are proposed changes submitted by a developer for review.	Pull requests facilitate code review, collaboration, and maintain a clean and stable codebase. They ensure that changes meet project standards and do not introduce errors.	Various developers initiate pull requests from their branches like 'Fixed Bug', Redbase, Main etc.
Discussions	Discussions related to ChatGPT may occur on platforms like GitHub or other forums, where contributors and users can engage in	Discussions foster community engagement and provide a platform for addressing issues, proposing features, and sharing	Discussions can be initiated by anyone in the community, including project maintainers and contributors.

	conversations, ask questions, and share ideas	knowledge among contributors and users.	
Readme	The README file is a document included in the project's root directory, providing essential information about the project, such as its purpose, installation instructions, and usage guidelines.	The README serves as the first point of contact for potential users and contributors. It helps them understand the project, get started quickly, and find relevant resources.	Project maintainers or contributors create and update the README file manually. Example: In ChatGPT redme file , “ChatGPT Desktop Application (Available on Mac, Windows, and Linux)”.