An Assignment on_“Extract various Artifacts (such as source code, commit messages and so on) of the following open source software systems: Azure Java SDK, ChatGpt.

Course Name: Software Development Lab

Course No.: CSE 3106

Submitted by:

Parthoraj Nandi

Student ID: 210202

Computer Science & Engineering Discipline,

Khulna University, Khulna.

Submitted to:

Dr. Amit Kumar Mondal

Associate Professor

Computer Science & Engineering Discipline

Khulna University, Khulna

Artifact Name	What is it	Why it is used	How is it created
doc	Documentation for the current repository	To store advanced documentation for developers of SDK.	Often created manually in markup languages or tools to generate documentation from inline comments in the source code.
eng	A group of engineering tools or utilities that the build configuration uses.	Used to carry out routine or repeated tasks.	Scripting languages are used by programmers to write it.
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.

Azure management client library	A higher-level, object oriented API	A method of managing Azure resources that puts an emphasis on uniformity, conciseness, and simplicity.	Through an already-existing system for user and developer input.

Azure Java SDK: The Azure SDK for Java allows Java developers to build applications that leverage various Azure services, such as storage, compute, networking, databases, and more.

Commit	Record of changes to the code	Documents changes made to the codebase, provides a version history	Developers commit changes with messages for tracking
Core Executable	The main executable of the software	The compiled version of the software that can be executed to run the application.	Created through the compilation process, converting source code into machine-readable instructions.
Actions	Automated workflows triggered by events	Used for automating tasks like testing, building, and deployment based on specific events.	Configured through YAML files defining workflows and actions to be performed.
Codebase	Implemented software code	The fundamental collection of source code files that constitute the software application.	Programmers and tools write or create it.

Core executables	Executables with a user-centered design.	Combining source code and graphical user interface (GUI).	Compiled from the source code.
Pull Requests	Proposed changes submitted by a developer	Allows developers to review, discuss, and merge code changes into the codebase.	Developers create a branch, make changes, and submit a pull request for review.

Discussions	Conversations around code or project-related topics	Facilitates communication amongteam members regarding code implementation or project decisions.	Users initiate discussions, and team members participate in conversations.
Wiki	Collaborative documentation space	A place to store and share project-related documentation and information.	Created and edited by project contributors, usually using a markup language.
Security	Information related to security measures and vulnerabilities	Monitors and addresses security concerns within the codebase.	Security information is managed and updated by the development team, addressing reported vulnerabilities.
Readme	Project introduction and setup instructions	Provides essential information about the project, helping users and contributors understand its purpose and how to use it.	Created and maintained by project contributors in Markdown or another markup language.
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.

Custom Properties	User-defined metadata or attributes	Additional information attached to issues, pull requests, or other items	Users can define and set custom properties as needed

Releases	Versioned releases of the software	Represents stable and tested versions of the software for distribution.	Created by the development team when they decide a set of features is ready for a stable release.

ChatGPT: ChatGPT is a language model developed by OpenAI, based on the GPT (Generative Pre-trained Transformer) architecture.

Artifact Name	What is it	Why it is used	How is it created
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 are used for images, text editors are used for documents, and configuration files are created menudriven.
Pull Requests	Proposed changes submitted by a developer	Allows developers to review, discuss, and merge code changes into the ChatGPT codebase.	Developers create a branch, make changes, and submit a pull request for review.

Actions	Automated workflows triggered by events	Used for automating tasks like testing, building, and deployment based on specific events in the ChatGPT repository.	Configured through YAML files defining workflows and actions to be performed.
Discussions	Conversations around code or project-related topics	Facilitates communication among team members regarding ChatGPT's code implementation or project decisions.	Users initiate discussions, and team members participate in conversations.
script	Code files created with scripting languages such as JavaScript, Python, or Shell.	To carry out operations, automate tasks, or carry out tasks.	Integrated development environments (IDEs) are used by developers to create, modify, and save these files.
src	Usually refers to a project's source code files and stands for "source."	Comprises the primary code that carries out the project's features and serves to specify the logic and functioning of the software.	Text editors or IDEs are used by developers to construct source code files.

public	Any files intended for usage by the whole public. Open-source licensing, documentation, and other things might be involved.	Information exchange, usage rules, and licensing specifics that promote developer cooperation.	Typically, documents are either manually made or written in markdown formats.
Codebase	Implemented software code	The fundamental collection of source code files that constitute the ChatGPT application.	Programmers and tools write or create it.
Core Executable	The main executable of the software	The compiled version of ChatGPT that can be executed to run the application.	Created through the compilation process, converting source code into machine-readable instructions.
Commit	Record of changes to the code	Documents changes made to the codebase, provides a version history	Developers commit changes with messages for tracking

Wiki	Collaborative documentation space	A place to store and share ChatGPT-related documentation and information.	Created and edited by project contributors, usually using a markup language.
Security	Information related to security measures and vulnerabilities	Monitors and addresses security concerns within the ChatGPT codebase.	Security information is managed and updated by the development team, addressing reported vulnerabilities.
Readme	Project introduction and setup instructions	Provides essential information about ChatGPT, helping users and contributors understand its purpose and how to use it.	Created and maintained by project contributors in Markdown or another markup language.
Activity	Record of projectrelated events and changes	Offers insights into recent activities in the ChatGPT repository, such as code changes, pull requests, and discussions.	Automatically generated by the platform based on user actions and project events.

Custom Properties	User-defined metadata or attributes	Additional information attached to issues, pull requests, or other items	Users can define and set custom properties as needed