

# **An Assignment on Extracting various artifacts of open source software systems**



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Course Name: **Software Development Project**

Course No.: **CSE 3106**

**Github Account:** <https://github.com/Prime-1-3>

<b>Artifact Name</b>	<b>What is it</b>	<b>Why it is used</b>	<b>How it is created/ Who Created It?</b>
Pull Request	A pull request (PR) is a proposal for changes in a codebase, facilitating collaboration and review in version control systems.	A pull request is used to propose, review, and merge changes into a codebase, enabling collaboration, code quality assurance, and systematic integration of new features or fixes in version control systems like Git and GitHub.	Developers / Contributors
Commit	A record of changes to the codebase, representing a specific set of modifications made to the files in a repository.	To record and track changes made to a codebase over time.	Contributors

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 without affecting the main codebase until changes are ready for integration.	Developers
Fork	A fork on GitHub is a personal copy of a repository that allows for independent development or experimentation.	Forking a repository on GitHub is used to enable independent development, experimentation, and collaboration without directly altering the original project, providing a way for contributors to propose changes or work on their versions of the code.	Click "Fork" on the GitHub repository's page to create a personal copy, allowing independent development and collaboration.
Tag	A marker that labels a specific point in a project's history, commonly used for releases or versioning.	Tags are used in version control systems to mark specific points in a project's history, typically representing releases or important milestones	Created and configured by the repository's maintainers or contributors

Codebase	Implemented software code	Core Executable of the software	Programmers and tools write or create it
Actions	Actions in a software development context often refer to automated workflows or tasks triggered by specific events in a repository, streamlining processes such as testing, building, or deploying code on platforms like GitHub.	Actions are used to automate and streamline various development processes, such as testing, building, and deploying code, leading to increased efficiency, consistency, and overall improvement in the software development lifecycle.	Created and configured by the repository's maintainers or contributors.
Activity	GitHub activity tracking is essential for transparent collaboration, version control, and accountability in software development	Documenting activity in GitHub enhances transparency, facilitates collaborative development, and provides a version history critical for effective code management.	Created by open-source contributors.
Wiki	A GitHub wiki is a collaborative space for creating and editing documentation associated with a repository	GitHub wikis are used to provide a collaborative platform for creating, editing, and organizing documentation related to a project, facilitating knowledge sharing, and serving as a centralized reference for contributors and users	Created and configured by the repository's maintainers or contributors

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 and project management	
Readme	The latest information about Galaxy.	A README is used to offer concise documentation and guidance for users and developers	Galaxy Community Hub.
Custom Properties	Custom properties are user-defined variables for tailoring or extending functionality, commonly used in software and configuration	Custom properties allow you to decorate your repository with information such as compliance frameworks, data sensitivity, or project details.	Mainly created by developers.
Code of conduct	An outline of expected behavior and guidelines for contributors and participants in a project or community.	It provides a reference point for addressing any issues related to behavior or communication within the community.	Created by developers and contributors
Security	The "Security" tab on a GitHub repository provides tools and information related to the security of the project	Allows repository maintainers and contributors to address and mitigate security issues in the codebase.	Generated using tools by the developers

Contributors	Lists all the contributors to the repository, highlighting the individuals who have made	Contributors write codes and contribute to the project	People volunteer to contribute to open source projects
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