

VIA University College  
Software Technology Engineering

Semester Project - Group 3  
3rd Semester

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# 1 Use of Version Control

This document outlines how version control has been and is being utilized in this project.

For version control, we are using Git, a distributed version control system that allows multiple developers to work on the same codebase simultaneously while keeping track of changes made over time. For hosting our Git repository, we are using GitHub, a web-based platform that provides a collaborative environment for managing Git repositories. We are using several Git clients, including Git Bash, GitHub Desktop, VS Code plugin, IntelliJ IDEA plugin, LazyGit, and more.

## 1.1 Git Workflow

We are using Git as our version control system. Rules for our workflow are specified in the ProjectGuidelines.pdf file. Citing them:

“The project uses Git for version control. All features and bug fixes should be developed in separate branches, which are then merged into the main branch. The main branch can be considered always deployable. For simplicity, the branches can either rebase from main before merging or use merge commits. Squashing commits is only encouraged when the feature development has many trivial commits that do not add value to the project history.

The process of merging should be primarily done by the person reviewing as the main branch should only consist of reviewed and approved code. It is not the reviewer’s responsibility to resolve the merge conflicts if any arise but minor conflicts should be resolved by the reviewer when possible to speed up the process. For commit messages, guidelines such as Commit Principles (Fekete, 2025) can be followed.”

## 1.2 Repository

The main repository for this project is hosted on GitHub at the following URL:

<https://github.com/SEPCheesecakeFactory/SEP3>

## 1.3 Branching Strategy

We have one main branch where the stable code resides. All new features and bug fixes are developed in separate branches, which are then merged into the main branch after thorough code review and testing. All such branches are labeled accordingly, e.g., `feature/feature-name`, `bugfix/bug-description`.

## 1.4 Statistics

As of the latest update, the repository contains:

- Total commits: 144
- Total branches: 6

To visualize commit activity over time, refer to the following plot generated from the repository data:

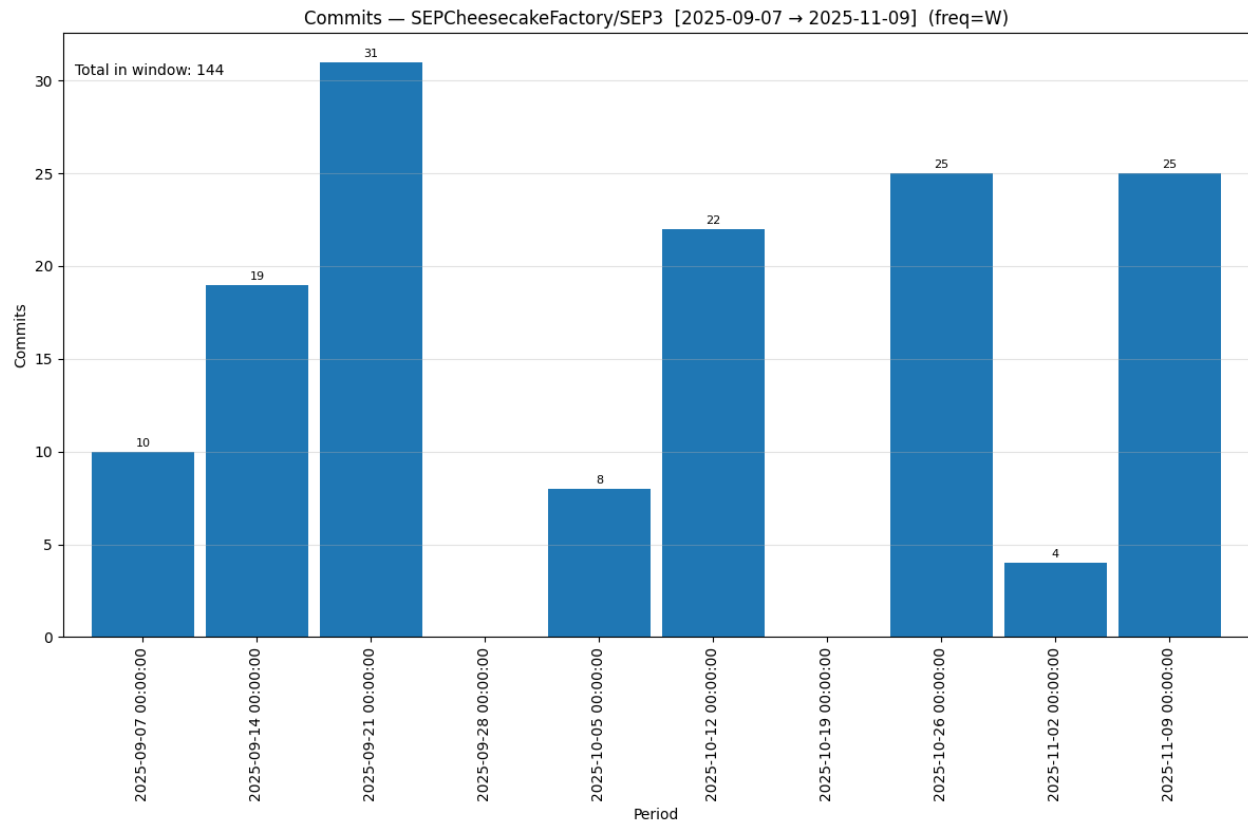


Figure 1: Repository Commit History

## 1.5 Documentation

```

SEP3 9 main
git tree
5f1b1c1 (HEAD -> main, origin/main, origin/HEAD) Create DonePoC.jpg
e6109a Delete application.properties
d009e4d Merge branch 'feature/Client'

* 1a1f39a (origin/feature/Client, feature/Client) [Add] Testing db entries
* 1a1335a Purge gitignore files
* 5f6a50a [Hotfix] client blazer and dataset version on the logic server from 9 to 10
* 111046 Merge branch 'feature/Client' of https://github.com/SEPChesecakeFactory/SEP3 into feature/Client
* 10275a Merge branch 'feature/Client' of https://github.com/SEPChesecakeFactory/SEP3 into feature/Client
* 7a0083 (Refactor) Client app entities
* 2ff6a6 Merge branch 'feature/Client' of https://github.com/SEPChesecakeFactory/SEP3 into feature/Client

* 903a293 [Refactor] Client app entities
* 65e485a [Add] Blazer client app for getCourse
* 770c238 [Delete] Weird Client app
* 38c4a6 [Add] gitignore, Basic ClientApp with Http
* 60a3fb7 [Add] something.txt
* 8a23c3 [Add] Blazer client app for getCourse
* 3510fe7 [Delete] Weird Client app
* 656c4da Merge branch 'feature/Client' of https://github.com/SEPChesecakeFactory/SEP3 into feature/Client
* 1a6a28a [Add] .gitignore, Basic ClientApp with Http
* 740fca7 [Add] something.txt
* 073ab0c [Add] .gitignore, Basic ClientApp with Http
* 73ab0af [Add] something.txt
* 9709dc [Add] Presentation diagrams

/
650830a [Add] gitignore update + dataset ignore client
100c005 (origin/feature/logic-server, feature/logic-server) build files grpc/rest
492319 [Update] bool for HTTP / HTTPS
1efab01 [Add] grpc repo implementation
0940e3b [Add] logic server core

/
6a03231 [Update] application.properties - good sql file
0a4139e [Update] application.properties
4ef2ac [Update] .gitignore
331c02 [Update] datasetserver - protobuf dependency
7e0802 [Add] Datasetserver/protobuf/ protocol courseController
729a10d [Update] .gitignore
03a437 [Update] gitignore application properties

```

Figure 2: Git Tree/Log

```

* 0701a7e [Add] IntelliJ gitignore, attributes
* 358c66a Merge branch 'feature/DB'

/
* fddb706 (origin/feature/DB, feature/DB) [Fix] GR astah theme old dependency
* 133942b [Update] GR naming in puml
* b3ee4d0 [Add] DDL - course
* 1215310 [Update] GR - course
* 5cdf6ea [Add] GR core
* 1a635268 [Fix] Instances of Abstract in GetCoursesSSD
* ea056b5 [Update] UseCaseDiagram

/
* 6b1df9e [Refactor] Abstracted asta theme dependency
* 0be982e [Add] GetCoursesSD

/
66a301a Merge branch 'main' of https://github.com/SEPChesecakeFactory/SEP3

/
* 0bf2f70 Merge branch 'main' of https://github.com/SEPChesecakeFactory/SEP3

/
* b55e1c6 Signing process
* a952928 [Update] AS Group Contract

/
* 7e8103c [Sign] AS Group Contract

* 70d26cf Signing PJ Group contract
* 2b59aa9 Signed Group Contract
* 813bbf8 (tag: EF_GroupContract) [Sign] EF Group Contract
* 54b2c42 [Add] PDF of Project Guidelines
* 90f9a2e [Update] Project Guidelines
* 83a00dc [Add] Project Guidelines
* 2d3ab6c [Update] Process report core
* f3696c5 [Update] Analysis formatting, pdf
* 224e040 Merge branch 'main' of https://github.com/SEPChesecakeFactory/SEP3

* c3551c6 use case description 1 improved
* 63e072d use case description 1
* d384e91 [Update] Preamble

/
* 1a97812 Merge branch 'main' of https://github.com/SEPChesecakeFactory/SEP3

/
* 7295eec Merge branch 'main' of https://github.com/SEPChesecakeFactory/SEP3

/
* c08aaf7 [add] UseCase#2
* 77dc296 [Update] Diagrams and Analysis pdf

/
* 08aefe0 [Fix] Student -> Learner, newpage, ...

```

Figure 3: Git Tree/Log, deeper