Git and GitHub case study assignment

Question:

Scenario:

You are part of a small development team tasked with managing git tasks for a simple java/*.net/python/ruby application.

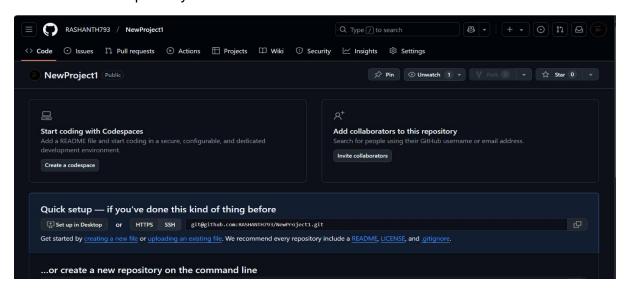
The application should allow users to:

Get/Create a simple application.

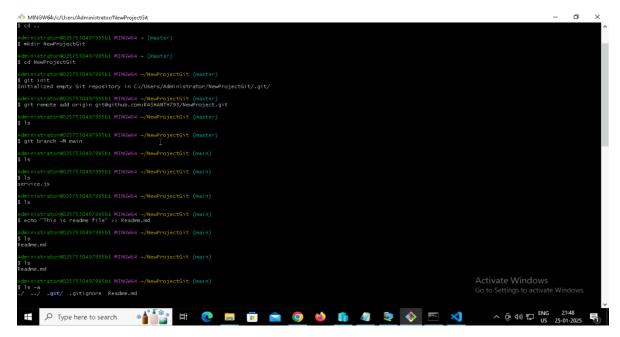
Project Setup:

- Create a new Git repository for the project.
- Initialize the repository with a README.md file explaining the project.
- Create a .gitignore file to exclude unnecessary files and directories from version control (e.g. *.class files, *.jar files etc.).

1. Created a Git Repository

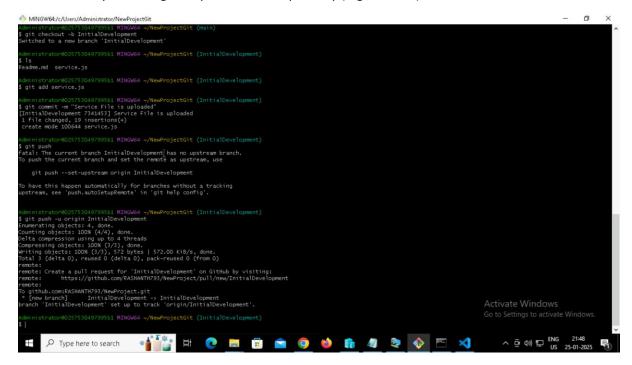


2. Initialized the repository with a README.md file explaining the project. And added .gitignore file.

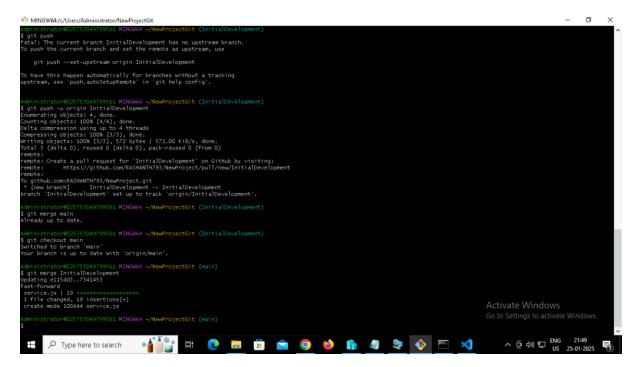


Initial Development:

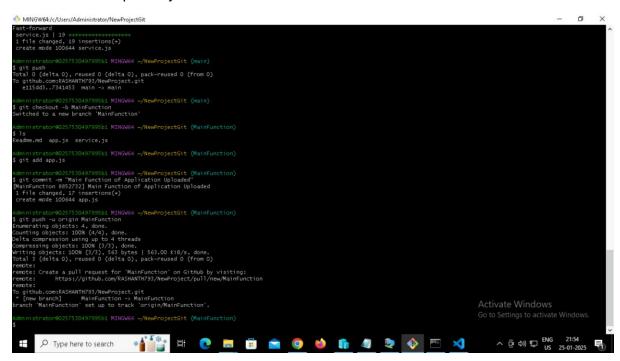
- Create a new branch for the initial development (feature/initial-development).
- Get/Develop the core functionality of the application.
- Make multiple commits
- Commit your changes regularly with meaningful commit messages.
- Push your changes to your remote repository (e.g., GitHub).

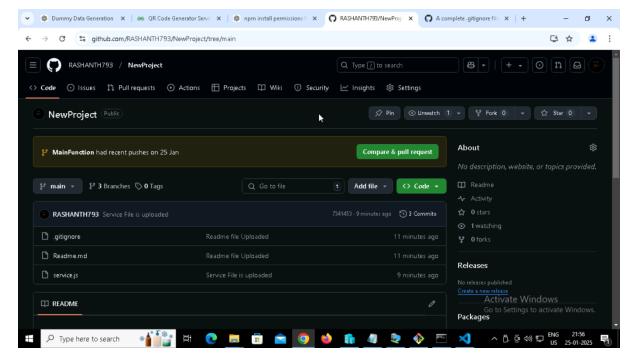


• Merging the Two Different Branches with Fast Forward Merge.



 Creating different branches and adding file, committing it and pushing the files to remote repository.

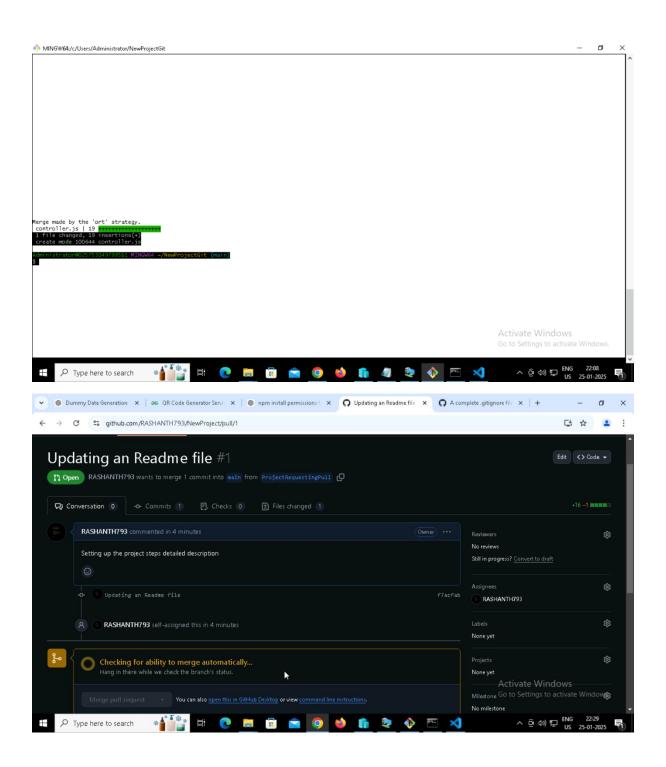


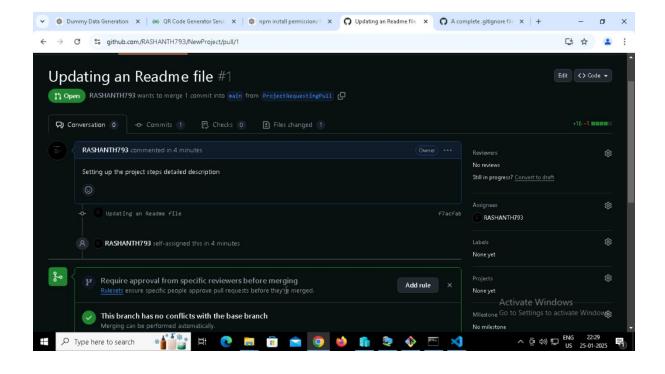


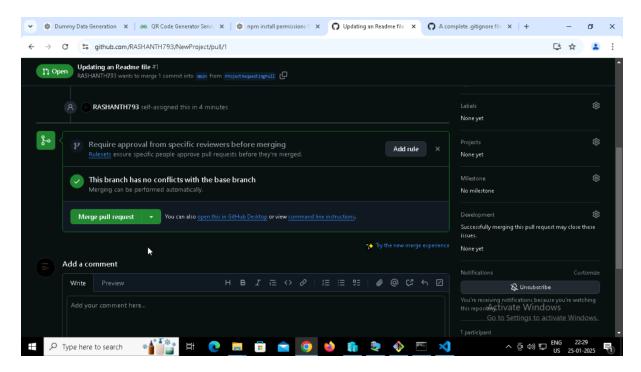
 Merging different branches and Creating different branch and performing ort merging.

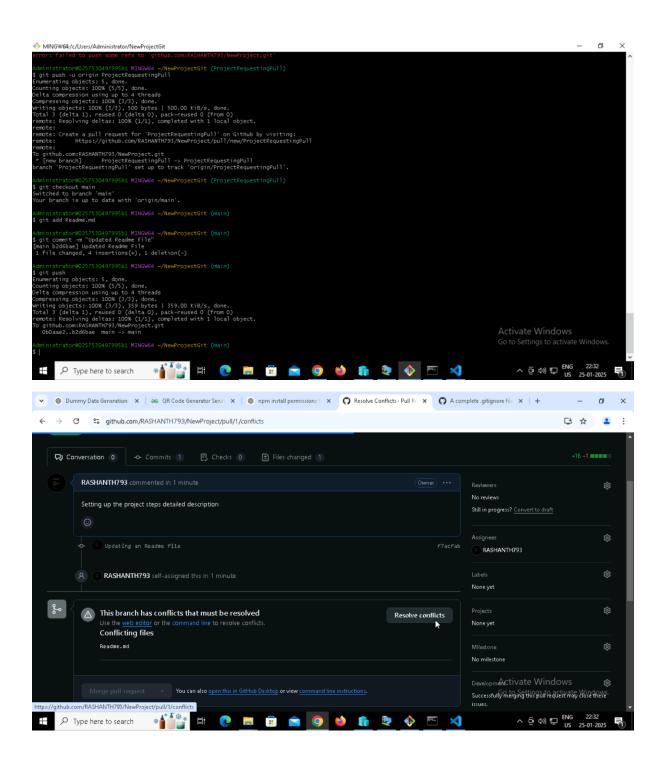
Collaboration:

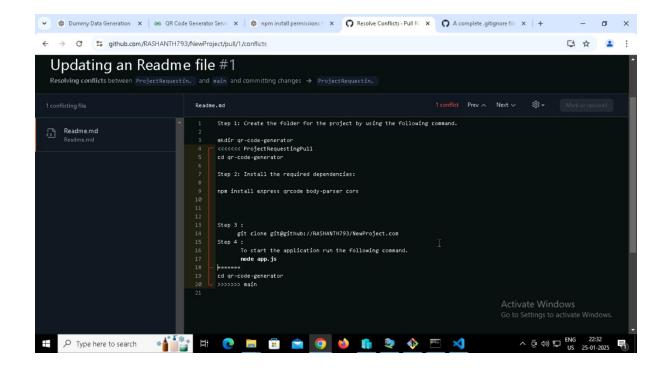
- Create a pull request to merge your feature/initial-development branch into the main branch.
- Simulate a code review by requesting feedback from a classmate (or an imaginary reviewer) and addressing their comments.
- Implement merge using different strategies like
- Rebase your branch onto the main branch before merging to maintain a clean linear history.
- Fast-Forward
- 3 way commit
- With conflict fix the conflict
- Please ensure to push all changes to github so that we have traceability.
- Ensure all changes are done with Verified user commit (signatures).

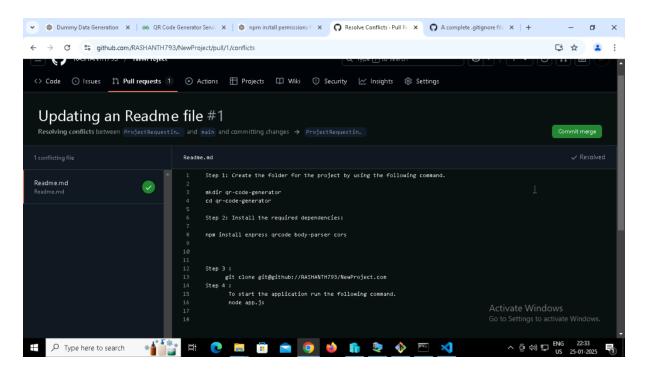


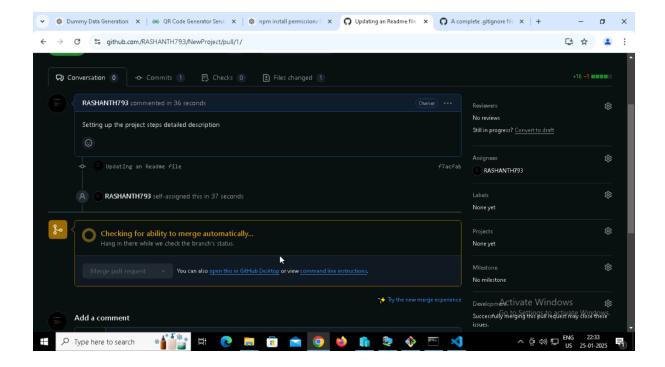


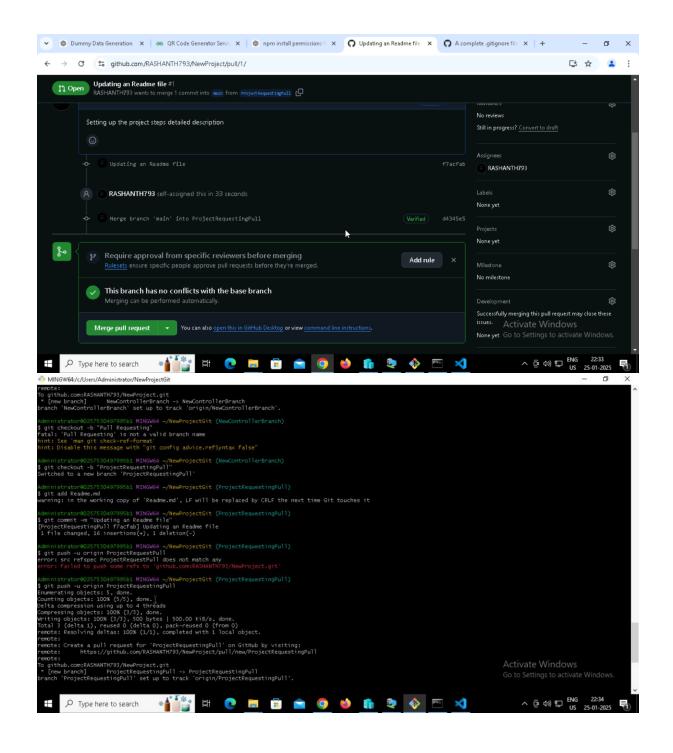


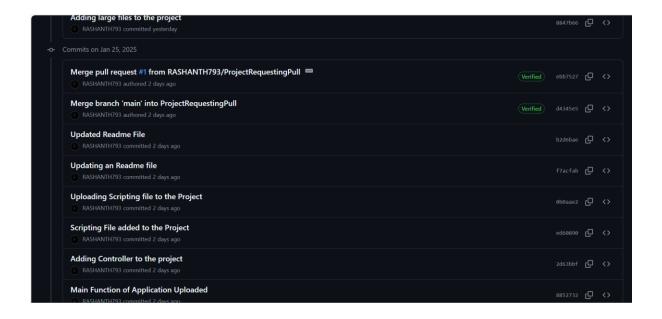












Enhancements:

Git LFS (Optional):

• If your application involves large files (e.g., images, audio), experiment with Git LFS to store them more efficiently.

GitHub Administration (if applicable):

- If working in a team, explore GitHub's team and organization features.
- Experiment with different access control levels for team members.
- Create a project board to track the progress of the project.

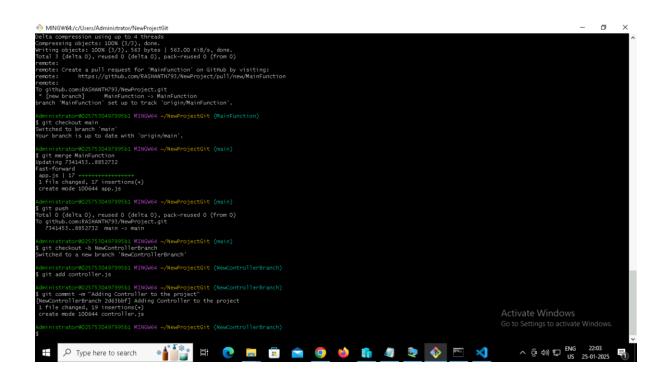
Deliverables:

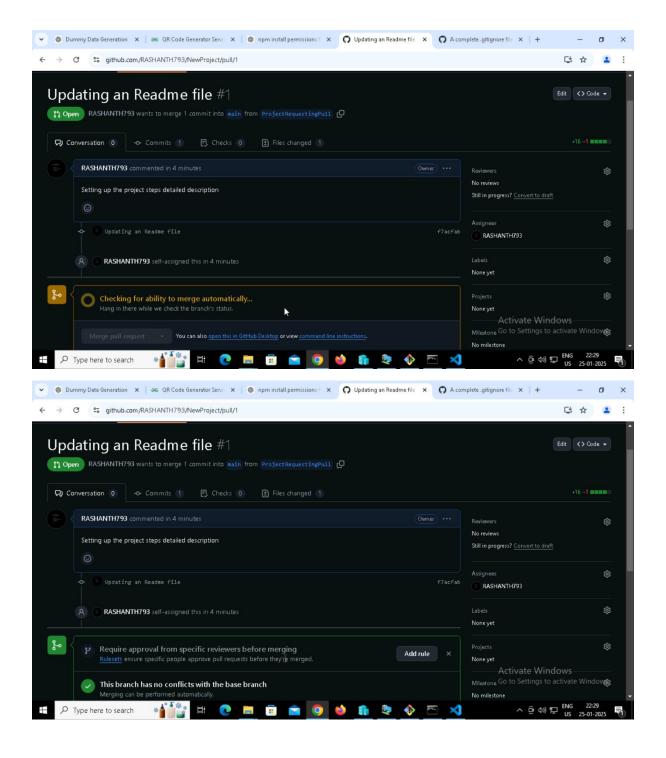
- A well-structured Git repository with a clear commit history.
- A working to-do list application with the required features.
- A well-documented project with a README file.
- A report summarizing the project, including the challenges faced and the lessons learned.

Assessment:

- Code quality and readability.
- Git usage and best practices (branching, merging, rebasing, tagging).
- Collaboration and communication skills.
- Understanding of Git concepts and commands.
- Ability to solve problems and troubleshoot issues.

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For more Please Find Github Link Below:

https:github.com/RASHANTH793/NewProject