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# System Requirements Specification Index

For

## Git Branches

Version 1.0

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# TABLE OF CONTENTS

1	Project Abstract	3
2	Assessment Objectives	3
3	Assessment Tasks	3
4	Execution Steps	3

# Git Branches

## System Requirements Specification

### 1 PROJECT ABSTRACT

This document outlines the structure for a **Git Branches git assessment** designed to evaluate the candidate's proficiency in using Git commands, integrating these commands within a Java application, and managing the build process with Maven. The assessment involves executing specified Git commands, verifying their correctness through a Java application, and using Maven to build and test the application.

### 2 ASSESSMENT OBJECTIVES

The objective of this assessment is to test the candidate's ability to utilize git commands effectively with a project environment.

### 3 ASSESSMENT TASKS

1. Open the terminal in the parent folder. Ensure that the folder path matches the email ID you used for the assessment.
2. Initialize an empty git repository.
3. Set up global config with your email ID and name.
4. Create a new branch called feature-a.
5. Checkout to the feature-a branch.
6. Create a file named feature-a.txt and add some content to it i.e "Some content for feature A".
7. Stage the new file (feature-a.txt) and commit it with the message "Add feature-a.txt".
8. Create a new branch called feature-b.
9. Checkout to the feature-b branch.
10. Create a file named feature-b.txt and add some content to it i.e "Some content for feature B".
11. Stage the new file (feature-b.txt) and commit it with the message "Add feature-b.txt".
12. Checkout back to the feature-a branch.
13. Merge the feature-b branch into feature-a
14. Checkout to the feature-b branch again.
15. Create a new file named feature-b-updated.txt and add some updated content i.e "Some updated content for feature B".
16. Stage the new file (feature-b-updated.txt) and commit it with the message "Update feature-b with new content".
17. Rename the feature-b branch to feature-b-renamed.
18. Checkout back to the feature-a branch.
19. Merge the renamed feature-b-renamed branch into feature-a.

## 4 EXECUTION STEPS TO FOLLOW

1. To open the command terminal, you need to go to the Application menu (Three horizontal lines at left top) -> Terminal -> New Terminal.
2. Once you perform all tasks, please open another terminal with the root address (path with project name).
3. To run your project use command:  
**mvn clean install exec:java -Dexec.mainClass="mainapp.MyApp" -DskipTests=true**
4. To test your project, use the command  
**mvn test**
5. These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.