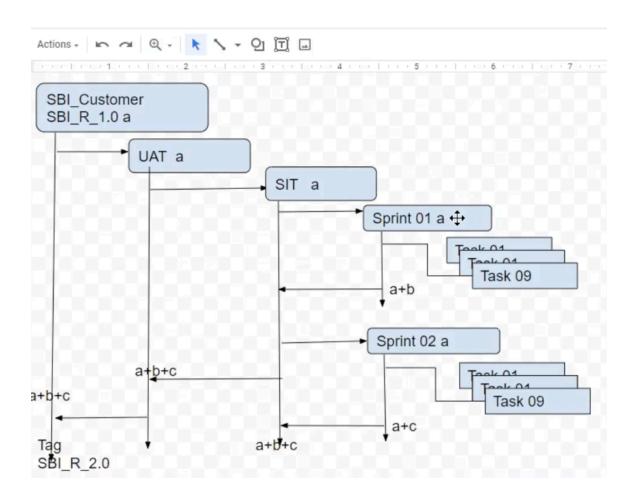
# Git Workflow and Release Process Documentation



#### 1. Overview

This document outlines the Git branching strategy and release workflow for the SBI\_Customer application. It includes the process for handling sprints, merging changes through SIT and UAT environments, and tagging releases.

## 2. Release/Sprint Flow Diagram

The development starts with release SBI\_R\_1.0a. The code is moved through SIT and UAT environments. Sprints are created for specific tasks and merged incrementally to form a final tagged release.

#### **Sprint Details:**

- Sprint 01: Includes Task 01, Task 04, Task 09 (Changes: a + b)
- Sprint 02: Includes Task 01, Task 04, Task 09 (Changes: a + c)

Final Tag:  $SBI_R_2.0$  (Changes: a + b + c)

### 3. Git Command Reference

#### **3.1 Basic Git Operations**

- Create Branch: git checkout -b <br/>branch\_name>
- Switch Branch: git checkout <branch\_name>
- Merge Branch: git merge <branch\_name>

## 3.2 Clone & Setup

git clone <repo\_url> apache2\_test\_project

## **3.3 View Commit History**

git log

### 3.4 .git Folder Structure

- .git contains:
  - hooks/, info/, logs/, objects/, refs/
  - config, HEAD, description, index

# 4. Git Workflow Examples

#### 4.1 Create and Push UAT Branch

git checkout -b UAT git touch fileuat git add . git commit -m "committed by UAT" git push -u origin UAT

#### 4.2 Create and Push SIT Branch

git checkout -b SIT touch filesit git add . git commit -m "Added sitfile"

## **4.3 Create Sprint Branch from SIT**

git checkout SIT
git checkout -b sprint01
touch sprintfile01
git add .
git commit -m "Created branch and added file"
git push -u origin sprint01

# **4.4 Merge Sprint Branches into SIT**

git checkout SIT git merge sprint01 git push -u origin SIT

git merge sprint02 git push -u origin SIT

## 4.5 Merge SIT into UAT

git checkout UAT git merge SIT git push -u origin UAT

## 4.6 Merge UAT into Main

git checkout main git merge UAT git push