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<u>**Policy Statement**</u>

Software Development Life Cycle (SDLC)

Overview

This document outlines the Software Development Life Cycle (SDLC) for our development process. It describes the steps and procedures followed by developers from initial development to deployment in the production environment.

Workflow Steps

1. Development on Local Computers

- **Description**: Developers begin by working on their local computers.
- **Action**: Create a new feature branch from the main branch.
- **Tools**: Local development environment, Git.

2. Pushing Feature Branch to GitHub

- **Description**: Once the development of a feature is complete and ready for testing, the feature branch is pushed to GitHub.
- **Action**: Use Git commands to push the feature branch to the remote repository on GitHub.

3. Testing on Server

- **Description**: Developers SSH into a testing server to pull the feature branch and test the changes.
- **Action**: SSH into the server and pull the feature branch from GitHub.
- **Testing**: Perform necessary tests to ensure the feature works as expected.

4. Merging Feature Branch into Main Branch

- **Description**: If the feature branch passes all tests, it is merged into the main branch.
- **Action**: Merge the feature branch into the main branch on GitHub.

5. Deployment to Production Server

- **Description**: The main branch is deployed to the production server.
- **Action**: SSH into the production server and pull the latest changes from the main branch.
- **Deployment**: Ensure the changes are synced across all productions servers and running as expected.

Summary

This SDLC ensures that all changes are thoroughly tested before being deployed to the production environment, maintaining the stability and reliability of the application.