Foundation Application: Frontend

Introduction

The Foundation Application's Frontend component is responsible for providing a user-friendly interface and interacting with users. It's designed to complement the frontend services by offering a seamless experience for end-users.

Features

- Interactive User Interface: Provides a responsive and interactive user interface for users to interact with the application.

- Real-Time Updates: Supports real-time updates to reflect changes made in the frontend or server-side operations.

- Integration with frontend: Integrates seamlessly with the frontend services to fetch and display data.

Getting Started

Prerequisites

Before you start, ensure you have the following installed:

- Docker and Docker Compose

- Jenkins with Pipeline and Docker plugins installed

- Git

Installation and Setup

Clone the Repository:

```
def sourceDir = "/home/naveen/Desktop/Projects/Application_Frontend_Foundation/"

                    def destDir =
"/home/naveen/.jenkins/workspace/Application_Frontend_Foundation/"

                        sh "rsync -av --exclude='__pycache__/' ${sourceDir} ${destDir}"Jenkins Pipeline
Setup:
```

Create a new Jenkins pipeline job.

Use the provided Jenkinsfile from the repository as the pipeline script.

Configuration

Environment Variables:

- DOCKER_CMD: The Docker command to use.
- DOCKERFILE_PATH: Path to the Dockerfile.
- CONTAINER_PORT: The port number for the Docker container.
- IMAGE_TAG: Tag for the Docker image.

API Keys and Secrets:

Store any API keys or secrets as environment variables in Jenkins.

Usage

The Jenkins pipeline automates several tasks:

- Cloning the Repository: Copies the project to the workspace.
- Checking Dockerfile: Verifies the existence of the Dockerfile.
- Building the Docker Image: Constructs the Docker image with a new tag.
- Running the Image: Deploys the frontend application using Docker Compose.
- Listing Docker Images: Displays all available Docker images.
- Curl Test: Performs a curl test to ensure the server is accessible.

To trigger the pipeline, push changes to your repository, or manually start the pipeline job in Jenkins.

pipeline