

Amos Xcerlerator Demo - Build Process

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1 Build process

This document is a short description on how to build the siemens Xcelerator demo project.

The following picture shows the main steps of the build process. The following subsections will further explain each of the steps. Project Architecture:

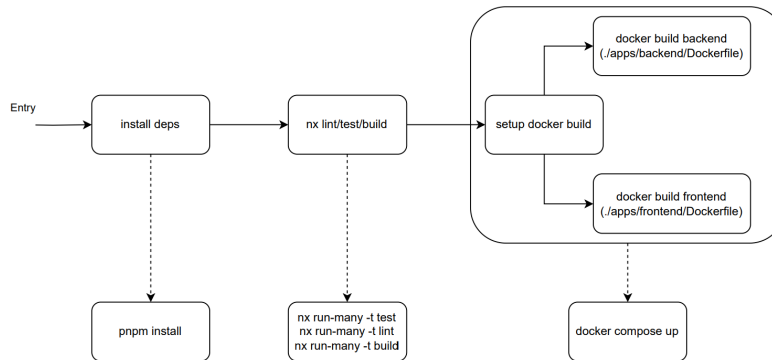


Figure 1: Build process short overview

1.1 PNPM

PNPM is our package manager, it works nearly identical to NPM. PNPM is a package manager used for managing the dependencies and installations.

The first command in the build process is:
PNPM install

1.2 NX Tests

The Nx workspace for managing the monorepository enables us to use view commands to start all tests.

The command for the tests:

```
nx run-many -t test
```

Similarly, the ESLint test can be started, ESLint checks for coding and format conventions.

The command for starting the ESLint tests is:

```
nx run-many -t lint
```

1.3 NX Build

NX can also be used to build the Workspace, therefore we need to run the command:

```
nx run-many -t build
```

1.4 Docker

Deployment is possible using docker compose, this will containerize and build the front and backend. This enables to publish the project. Currently, there is no infrastructure for the project in the planning.

The command is:

```
docker compose up
```

1.5 More detailed description

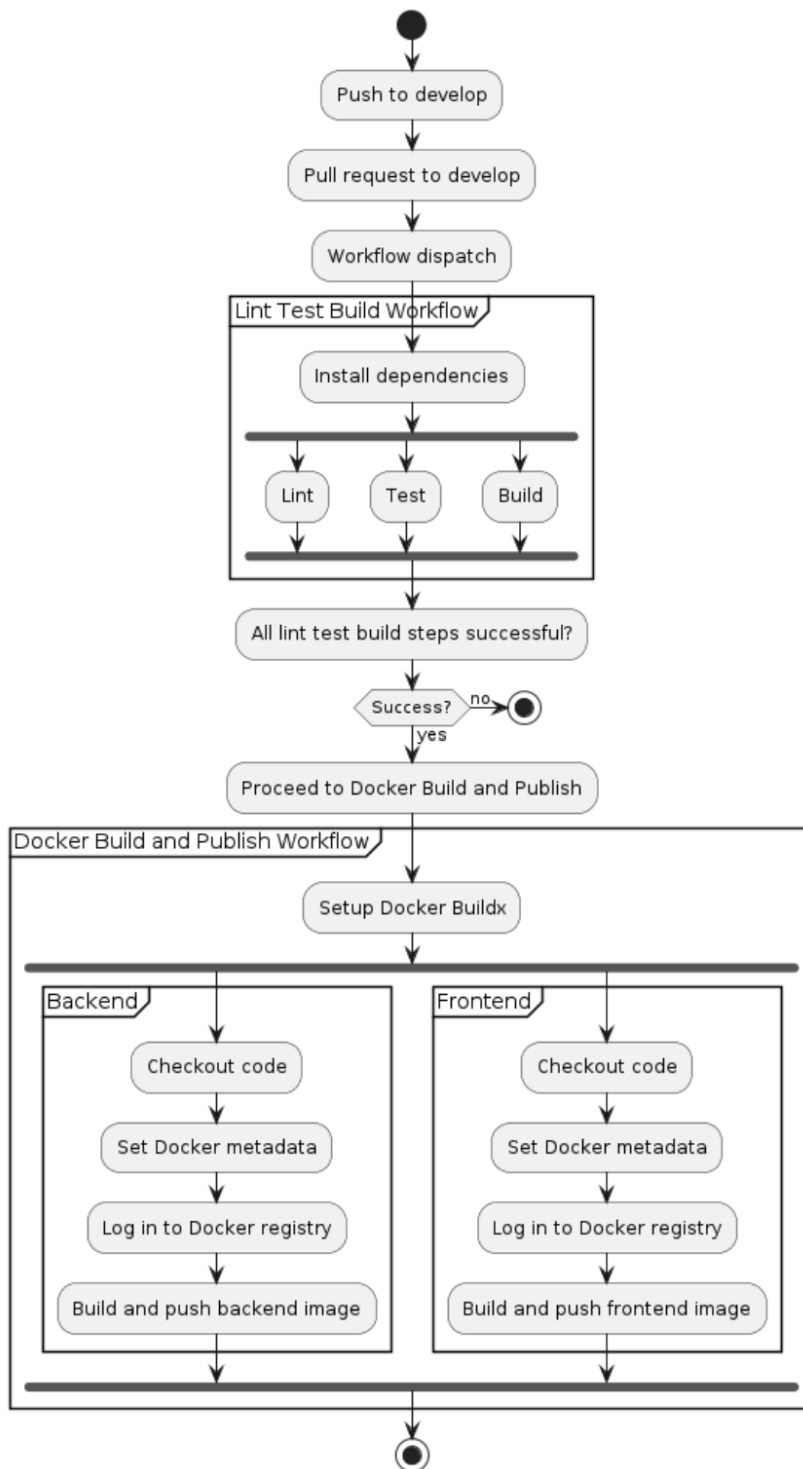


Figure 2: Detailed Build process