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# Angular CI

## **TESTING LINKS**

refer to page1#bookmark-a for more info

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link:./page1

link:/page1.asciidoc

link:page1#Pipeline

Xref page 1:

xref:bookmark-a

Anchor to page 1:

Click on adjustments-id to go to Adjustments

Links to page 2:

link:./page2.asciidoc

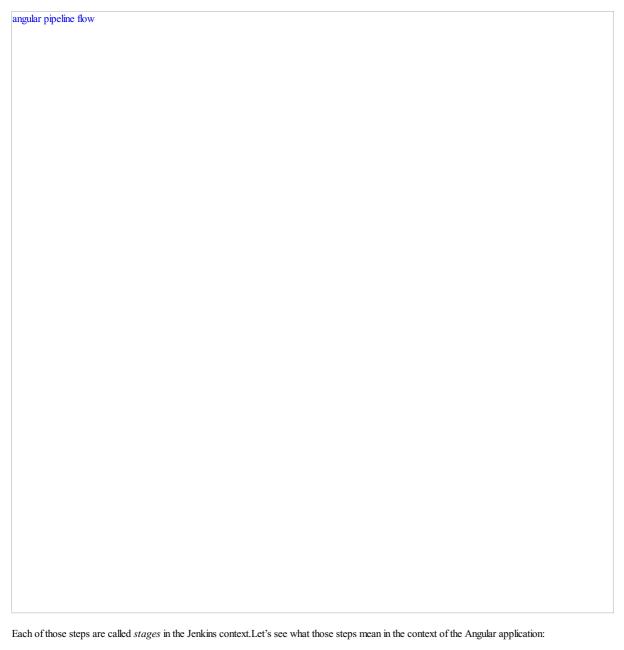
link:page2#basic-project-structure

The Angular client-side of My Thai Star is going to have some specific needs for the CI-CD Pipeline to perform mandatory operations.

1	2	A
3	4	В
5	6	С

## **Pipeline**

The Pipeline for the Angular client-side is going to be called  $MyThaiStar\_FRONTEND\_BUILD$ . It is located in the PL instance, under the  $\underline{MTS}$  folder (as previously explained). It is going to follow a process flow like this one:



1. Declarative: Checkout SCM

2. Declarative: Tool Install

3. Loading Custom Tools

4. Fresh Dependency Installation

5. Code Linting

6. Execute Angular tests

7. SonarQube code analysis

8. Build Application

9. Deliver application into Nexus

10. Declarative: Post Actions

## Adjustments

The Angular project Pipeline needed some "extra" features to complete all planned processes. Those features resulted in some additions to the project.

### **Pipeline Environment**

In order to easily reuse the pipeline in other angular projects, all variables have been defined in the block environment. All variables have the default values that Production Line uses, so if you're going to work in production line you won't have to change anything. Example:

```
environment {
    // Script for build the application. Defined at package.json
buildScript = 'build --configuration=docker'
    // Script for lint the application. Defined at package.json lintScript = 'lint'
    // Script for test the application. Defined at package.json
    testScript = 'test:ci'
    // Angular directory
    angularDir = 'angular'
    // SRC folder. It will be angularDir/srcDir srcDir = 'src'
    // Name of the custom tool for chrome stable
    chrome = 'Chrome-stable'
    // sonarQube
    // Name of the sonarQube tool
sonarTool = 'SonarQube'
    // Name of the sonarQube environment
    sonarEnv = "SonarQube"
    // Nexus
    // Artifact groupId
groupId = 'com.devonfw.mythaistar'
     // Nexus repository ID
    repositoryId = 'pl-nexus'
     // Nexus internal URL
    repositoryUrl = 'http://nexus3-core:8081/nexus3/repository/maven-snapshots'
    // Maven global settings configuration ID
globalSettingsId = 'MavenSettings'
    // Maven tool id
    mavenInstallation = 'Maven3'
```

### **Description**

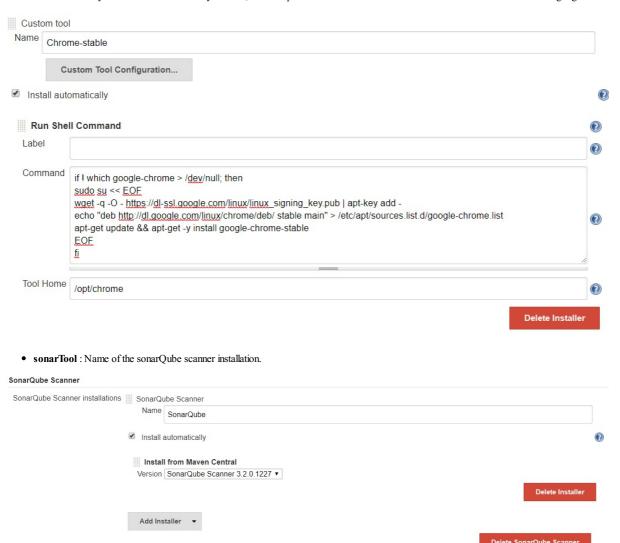
- buildScript: script for build the applicaction. It must be defined at package.json.
- lintScript : Script for lint the application. Defined at package.json
- testScript: Script for test the application. Defined at package.json
- angularDir: Relative route to angular application. In My Thai Star this is the angular folder. The actual directory (.) is also allowed.

▲ MY-THAI-STAR
angular
config_files
graphQL (deprecated)
iava java
jenkins
mrchecker
net net
node
reverse-proxy
serverless (deprecated)
swagger
• .gitignore
▼ .travis.yml
CODE_OF_CONDUCT.asciidoc
CONTRIBUTING_GUIDE.asciidoc
▼ docker-compose.yml
ISSUE_TEMPLATE.asciidoc
© LICENSE.txt
PR_TEMPLATE.asciidoc
README.adoc
■ TERMS_OF_USE.asciidoc

 $\bullet \ \ srcDir: Directory \ where \ you \ store \ the \ soruce \ code. \ For \ angular \ applications \ the \ default \ value \ is \ {\tt src}$ 



• chrome: Since you need a browser to run your tests, we must provide one. This variable contains the name of the custom tool for google chrome.



• sonarEnv: Name of the sonarQube environment. SonarQube is the default value for PL.

- groupId: Group id of the application. It will be used to storage the application in nexus3
- $\bullet \ \ repository Id: Id \ of the \ nexus 3 \ repository. \ It \ must \ be \ defined \ at \ maven \ global \ config \ file.$
- $\bullet \quad repository Url: The \ url \ of \ the \ repository.$
- $\bullet \quad global Settings \, Id: \mbox{The id of the global settings file.} \\$
- $\bullet \;\;$  maven Installation: The name of the maven tool.

## Angular design

### Introduction

MyThaiStar client side has been built using latest frameworks, component libraries and designs:

Angular 4 as main front-end Framework. https://angular.io/

Angular/CLI 1.0.5 as Angular tool helper. https://github.com/angular/angular-cli

Covalent Teradata 1.0.0-beta4 as Angular native component library based on Material Design. https://teradata.github.io/covalent//

Angular/Material2 1.0.0-beta5 used by Covalent Teradata. https://github.com/angular/material2

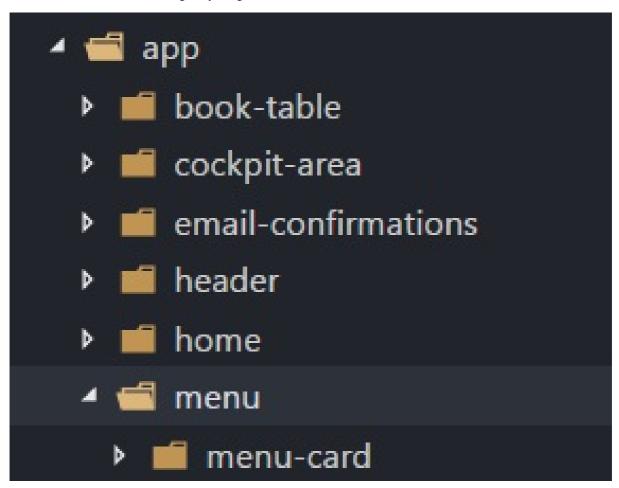
Note: this dependencies are evolving at this moment and if it is possible, we are updating it on the project.

## Basic project structure

The project is using the basic project seed that Angular/CLI provides with  $\hat{a}\in eng$  new project name> $\hat{a}\in eng$ . Then the app folder has been organized as Angular recommends and goes as follows:

- app
  - o components
    - sub-components
    - shared
    - component files
  - o main app component
- · assets folder
- · environments folder
- · rest of angular files

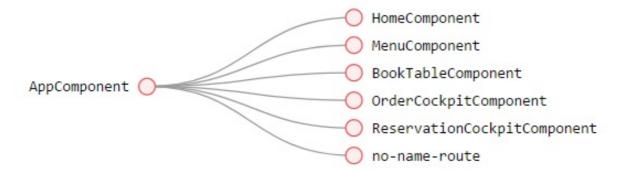
This structure can be shown in the following example image:



- shared
  - menu.component.html
  - menu.component.scss
  - menu.component.spec.ts
  - TS menu.component.ts
  - TS menu.module.ts
- shared
- sidenav
- user-area
  - app.component.html
  - app.component.scss
  - app.component.spec.ts
  - 15 app.component.ts
  - TS app.module.ts
  - TS app.routes.ts
  - TS config.ts
  - TS index.ts

## Main Views and components

List of components that serve as a main view to navigate or components developed to make atomically a group of functionalities which given their nature, can be highly reusable through the app.



Note: no-name-route corresponds to whatever URL the user introduced and does not exist, it redirects to HomeComponent.

### Public area

### AppComponent

Contains the components that are on top of all views, including:

#### Order sidenay

Sidenav where selected orders are displayed with their total price and some comments.