Build & Deployment Documentation

Edit   New Page   Jump to bottom

m4xrdk edited this page 2 days ago · 23 revisions

Introduction

This page contains a guide on how to build and deploy the Quick Check software.

TODO: Introduction ausführen

TODO: eventuell in Frontend, Backend unterteilen?

Project Repository

Repository `service`

- Controllers: handle http requests and responses
- DTOs (Data Transfer Objects): received from and send back to client, help us to create client specific views
- DB:
  - Entities: represent a table in the DB
  - Repositories: interface to communicate with DB
- Services: orchestra data transfer between client and DB (whatever needs to happen, happens in one of the services)

Build Process

Deployment for Development

Prerequisites

Docker is used to isolate each service (i.e. mysql database, springboot application) that we are working on and to be able to develop across different environments.

1. [Install Docker](#)
2. Start Docker on your machine

Launch development container

1. Open terminal and `cd` in root directory
2. Run command `docker compose up`

By executing the last command, docker will create the following containers.

Extending the service

To be able to deploy your changes to the service you need to fire a build command within your IDE.

To fire a build command in Intellij press `command + F9` on Mac or from `Menu Build --> Build Project`

The build command causes springboot to restart within the container and apply your changes.

Testing Backend

1. [Launch development container](#)
2. Open another tab in your terminal
3. Run the following commands
   i. `docker exec -it service bash` (enter docker container service with a bash script)
   ii. `cd app` (directory app contains pom.xml, needed to run mvn command)
   iii. choose one of the following:
       a. `mvn test` to run all tests
       b. `mvn test -Dtest=classname` to run all tests within classname
       c. `mvn test -Dtest=classname#method` to run a single method within classname

Add a custom footer

+

▾ **Pages** 4

Find a Page...

▸ **Home**

▾ **Build & Deployment Documentation**

Introduction

Project Repository

Repository service

Launch development container

Extending the service

Testing Backend

▸ **Technical Design Documentation**

▸ **User Documentation**

＋ Add a custom sidebar

Clone this wiki locally

```
https://github.com/amosproj/amos2021ws05-fin-prod-port-quick-check.wiki.git
```