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# Documentation

## Beanframework

Thank you so much for using beanframework project. 100% open source project under MIT license.

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If you have any questions that are beyond the scope of this help file, Please feel free to post via [Github Discussion Page](#) .

## License

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## Installation

Create a new database:

- 1. By default, this project supported unicode character such as Chinese language, therefore the database must use CHARACTER SET utf8 COLLATE utf8\_unicode\_ci

```
CREATE SCHEMA `beanframework` DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci
```

- 2. Configure project by copy and remove **.template** suffix:

- `beanframework/bin/ pom.xml.template`
- `beanframework/bin/install/ server.bat.template`
- `beanframework/bin/install/ server.sh.template`
- `beanframework/bin/platform/ pom.xml.template`
- `beanframework/config/ pom.xml.template`
- `beanframework/config/src/main/resources/ *.template`
- `beanframework/config/src/main/resources/import/dev.template`

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- Optional: `beanframework/bin/install/` `app.xml.template`

3. Open command prompt and navigate to `beanframework/bin` directory run:

```
mvnw clean install
```

4. Navigate to `beanframework/bin/install` directory and run:

```
server.bat
```

5. Access application endpoints:

- Console: <http://localhost:8080/console>
- Backoffice: <http://localhost:8080/backoffice>
- Documentation: <http://localhost:8080/documentation>

6. Import update data:

- Access Console: <http://localhost:8080/console>
- Login with default admin account: username: **admin** , password: **admin**
- Goto menu `Platform->Update` , check all and update.

7. You are good to go for run your project now!

## Project Structure

1. Below is the `beanframework` folder structure:

- `bin` - Source files
  - `custom` - Create a custom modules and put in this folder, best practice for not mixing with original project structure and codes, and easily to upgrade software in future.
  - `install` - Install/Run application manually or install as windows service.
  - `modules` - Project default modules.
  - `platform` - Platform that startup this application with configured modules.
- `config` - Mainly use for application properties and configurations for different environments.
- `data` - Data storage for this application
  - `media` - All the media stored in this directory.
  - `integration` - Spring Integration. Can be used for import data.
- `log` - Application logging files, with archived and rotated logging files.
- `temp` - Application temporary files.

## Platform

Platform Configuration and Import Data

## Configuration

`beanframework/bin/config/src/main/resources/`

- Configure environment:
  - `application.properties`
    - `spring.profiles.active=dev`
- Configure configurations and import data for environment:

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- `application-dev.properties` - Environment properties.
- `ehcache-dev.xml` - Cache configuration.
- `logback-dev.xml` - Logback configuration.
- `import/dev` - Contains data to import

## Import Data

`beanframework/bin/config/src/main/resources/import/`

- `dev/initdata/**/*.csv` - Contains data to import every time when application startup.
  - `module.imex.import.init.locations=classpath*:import/dev/initdata/**/*.csv`
- `dev/initsql/**/*.sql` - Contains sql to execute every time when application startup.
  - `platform.import.startup.enabled=true`
  - `platform.import.sql.locations=classpath*:import/dev/initsql/**/*.sql`
- `dev/updatedata` - Contains data to import when manually performing platform update.
  - `module.imex.import.update.locations=classpath*:import/dev/updatedata`

## Development

Development for developer

## Module Gen

`beanframework/bin/module/modulegen/`

- Set module configuration `src/main/resources/application.properties`
- Run `src/main/java/com/beanframework/modulegen/ModulegenApplication.java`
- Generated module output: `beanframework/bin/module/custom/`

Configure new module in project:

- Add new module in `beanframework/bin/pom.xml`
- Add new dependency in `beanframework/config/pom.xml`
- Add new profile and packages in `beanframework/config/src/main/resources/application.properties`
  - `spring.profiles.include=platform,console,backoffice,documentation,training`
  - `spring.scanBasePackages=com.beanframework,com.sample`
  - `jpa.domain.packagetoscans=com.beanframework.*.domain,com.sample.*.domain`

## Dynamic Attributes

Optional: Please check example of dynamic attributes used in UserGroup module in project.

Example of create Dynamic Field for a Training Model:

- Create/Reuse a new entry in DynamicField **name\_en**
- Create a new entry in DynamicFieldSlot **training\_name\_en**
- Create a new entry in DynamicFieldTemplate **training.dynamicfield.template**

Example of create Attributes for a Training model:

- `TrainingAttribute.java` - Create new entity
- `Training.java` - Insert attributes property
- `TrainingAttributeDto.java` - Insert attributes property

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- `TrainingDto.java` - Insert attributes property
- `TrainingPopulator.java` - Insert attributes property
- `TrainingEntityConvTraining.java` - Insert attributes property
- `TrainingServiceImpl.java` - Create `generateTrainingAttribute(...)`
- `TrainingLoadInterceptor.java` - Insert `trainingService.generateTrainingAttribute(...)`
- `TrainingInitialDefaultsInterceptor.java` - Insert `trainingService.generateTrainingAttribute(...)`
- `trainingForm.html` - Insert:

```
...  
  
<li class="nav-item">  
  <a class="nav-link" id="custom-tabs-attribute-tab" data-toggle="pill" href="#custom-tabs-attribute"  
  role="tab" aria-controls="custom-tabs-attribute" aria-selected="false" th:text="#{module.common.attribute}"></a>  
</li>  
  
...  
  
<div class="tab-pane fade" id="custom-tabs-attribute" role="tabpanel" aria-labelledby="custom-tabs-attribute-  
tab">  
  <th:block th:insert=~{backoffice/adminlte/common/fragment/content-form-attribute :: form(attributes=*  
{attributes})}></th:block>  
</div>  
  
...
```