Cognizant Academy

truYum

FSE Spring Data JPA & Hibernate Specification Document

Version 1.0

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Table of Contents

Introduction

1.1 Purpose of this document

The purpose of this document is to define the user interface specification for truYum project.

1.2 Definitions & Acronyms

Definition / Acronym	Description
JPA	Java Persistence API

1.3 Project Overview

Refer truyum-user-stores.xlsx for understanding the functionality and features.

1.4 Scope

Develop Spring Data JPA implementation for truYum application.

1.5 Intended Audience

- Product Owner

- Scrum Master

- Application Architect

- Project Manager

- Test Manager

- Development Team

- Testing Team

1.6 Hardware and Software Requirement

1. Hardware Requirement:

    a. Developer Desktop PC with 8GB RAM

2. Software Requirement

    a. Eclipse

2.0 Project Setup in Eclipse

Use the same Eclipse project created for spring core specification and implement spring data jpa specification on top of it.

3.0 Database and Bean Mapping configuration

- Modify pom.xml to support Spring Data JPA and Hibernate dependencies.

- Modify all classes in model package to refer to the respective tables and columns.

    o IMPORTANT NOTE

        ▪ Change all List to Set

- Based on the relationship type define necessary many-to-one, one-to-many and many-to-many relationships.

- Create necessary Repository classes for each model with empty implementation.

4.0 TYUC001 & TYUC002 – View Menu Item List (Admin & Customer)

- Create a method in MenuItemRepository to filter out the active items and launch date is not in future
- Modify MenuItemService method to use the repository method.
- Modify getMenuItemListAdmin() to invoke repository's findAll() method.
- Modify getMenuItemListCustomer() to invoke the method defined in MenuItemRepository.

5.0 TYUC003 – Edit Menu Item

5.1 Populate form fields in Edit Menu Item component

- Modify MenuItemService.getMenuItem() to use getOne() method of MenuItemRepository.

5.2 Save Menu Item

- Modify MenuItemService.modifyMenuItem() to use save() method of MenuItemRepository.

6.0 Coding Standards and Guidelines

- Database script files should be placed in the relevant folders
- Define @Transactional annotation in all service methods
- Never use System.out.println(), use logger.debug() instead
- Include start and end logs in each method
- Include debug logs for data retrieval and flow
- All standards defined in Java module needs to be followed.

7.0 Submission

7.1 Code submission instructions

Use git add, commit and push commands to upload your code into remote GltLab repository.

During commit, give the commit message as "spring-data-jpa".

8.0 Change Log

	Changes Made			
V1.0.0	Initial baseline created on <dd-Mon-yy> by <Name of Author>			
Vx.y.z	<Please refer the configuration control tool / change item status form if the details of changes are maintained separately. If not, the template given below needs to be followed>			
	Section No.	**Changed By**	**Effective Date**	**Changes Effected**