

Assignment 1	Project Summary
Course	Web Application & Service Development with Spring Framework v5 - 2020

Project author		
№	Pseudonym	Face-to-face/ online
1	Buba	online

Project name	Cookery Book Manager
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1. Short project description (Business needs and system features)
<p>The idea of the project is to provide each user the possibility to maintain their own cookery books with recipes. Each registered user can have their own cookery book, where he can write his own recipes with products. For convenience, he would also be able to list all products that are available in his house(in our Refrigerator), in this way he will always know which products he needs to buy, for example. Every user has access to everyone's public cookery books.</p> <p>The system will be developed using Spring 5 Application Development Framework. It will implement web-based front-end client using Thymeleaf templates and jQuery or React.js/Vue.js/Angular JavaScript/TypeScript libraries for asynchronous page data updates. Each page will have a distinct URL, and the routing between pages will be done server side using SpringMVC/ WebFlux. The backend will be implemented as a REST API. The main user roles (actors in UML) are:</p> <ul style="list-style-type: none"> • <i>Anonymous User</i> – Can see other people's cookery books with recipes, if they are public • <i>Registered User(extends Anonymous User)</i> – Can have a Cookery book with Recipes(private or public). Can have also a refrigerator with available products.

- *Administrator* (extends *Registered User*) – manages (create, edit user data and delete) all *Users*, as well as all recipes and products

2. Main Use Cases / Scenarios		
Use case name	Brief Descriptions	Actors Involved
2.1. Browse public cookbooks with recipes	All users, including anonymous, can browse public user cookbooks and recipes	All users
2.2. Register	<i>Anonymous User</i> can register in the system by providing a valid e-mail address, username, and choosing password <i>Administrator</i> can register new user by entering <i>user data</i> .	<i>Anonymous User, Administrator</i>
2.3. Change User Data	<i>Registered User</i> can view and edit her personal <i>User Data</i> <i>Administrator</i> can view and edit <i>User Data</i> of all <i>Users</i>	<i>Registered User, Administrator</i>
2.4. Manage Users	<i>Administrator</i> can browse and filter users based on different criteria: first and last name, email. <i>Administrator</i> can choose a <i>User</i> to manage, and can manage the chosen <i>User</i> - edit or delete. <i>Administrator</i> can create a new user using the Administrator Panel.	<i>Administrator</i>
2.5. Manage Cookery books	Registered User can create their own cookery books	<i>Registered User, Administrator</i>

	Administrator can manage other users' cookery books	
2.6. Manage Recipes	<i>Registered User</i> can create, read, update, delete his own recipes. Administrator can manage other users' recipes	<i>Registered User, Administrator</i>
2.7. Manage Products	<i>Registered User</i> can create, read, update, delete his own products Administrator can manage other users' products	<i>Registered User, Administrator</i>
2.8. Manage Refrigerator	<i>Registered User</i> can manage his own Refrigerator with his currently available products	<i>Registered User</i>

3. Main Views (Frontend)		
View name	Brief Descriptions	URI
3.1. Home	Presents a list of all public books to all users (both anonymous and registered)	/books
3.2. View public book	Everyone can view certain public book	/books/{id}
3.3. View public recipe	Everyone can view certain public book's recipe	/books/{id}/recipes/{id}
3.4. View My Books	Every registered user has access to their private own panel, where their cookery books are	/user/books
3.5. View certain book from my books	User will be able to open a single cookery book from their page	/user/books/{id}
3.6. Cookery Book edit	User can edit his own cookery book	/user/books/{id}/edit

3.7. View Recipe	View certain recipe from your cookbook with id:=id	/user/books/{id}/recipes/{id}
3.8. Edit recipe	Edit certain recipe from your cookbook with id:=id	/user/books/{id}/recipes/{id}/edit
3.9. Refrigerator	Every user has Refrigerator – the place where he adds the products that he currently has in his own real refrigerator	/user/refrigerator
3.10. User Registration	Presents a view allowing the <i>Anonymous Users</i> to register.	/register
3.11. Login	Presents a view allowing the users to login.	/login
3.12. User Profile	Provides ability to view and edit personal data, edit personal information and provides fast access to user's cookery books with recipes and refrigerator	/user
3.13. Users	Presents ability to manage (CRUD) Users and their User Data (available for <i>Administrators</i> only).	/users

4. API Resources (Backend)		
View name	Brief Descriptions	URI
4.1. Users	GET <i>User Data</i> for all users, and POST new <i>User Data</i> Available only for <i>Administrators</i> .	/api/users
4.2. User	GET, PUT, DELETE <i>User Data</i> for <i>User</i> with specified <i>userId</i>	/api/users/{userId}
4.3. Login	POST <i>User Credentials</i> (e-mail address and password) and receive a valid <i>Security Token</i> to use in subsequent API requests.	/api/login
4.4. Logout	POST a logout request for ending the active session and invalidating the issued <i>Security Token</i> .	/api/logout
4.5. Cookery Books	GET,PUT,POST,DELETE cookery books (according to <i>User's Role</i> and identity)	/api/books

4.6. Recipe	GET, PUT, POST, DELETE <i>Recipe</i> with specified <i>id</i> .	<i>/api/recipes/{id}</i>
4.7. Refrigerator	GET, PUT, POST, DELETE <i>products in the refrigerator</i> .	<i>/api/refrigerator</i>