



Курсова работа
по
Web Application & Service
Development with Spring v5

Тема: RoxStar Games Online Store

Изготвила: Роксана Янева
ЗИКСМ, 26185

VERSION HISTORY

Version #	Implemented By	Revision Date	Approved By	Approval Date	Reason
1.0	<i>Roksana Yaneva</i>	<i>21.01.2020</i>	-	-	Initial Design Definition draft

1 OVERVIEW

RoxStar Games is an online games store which provides the following features: creating a user profile, shopping cart, games search by name, genre and other categories. Product suppliers add new products to the site. There are also administrators to manage all that. The system will be developed using **Spring 5 Application Development Framework**. It implements a web-based front-end client using **React.js** library for asynchronous page data updates. Each page will have a distinct URL. The backend will be implemented as a **REST/JSON API** using JSON data serialization.

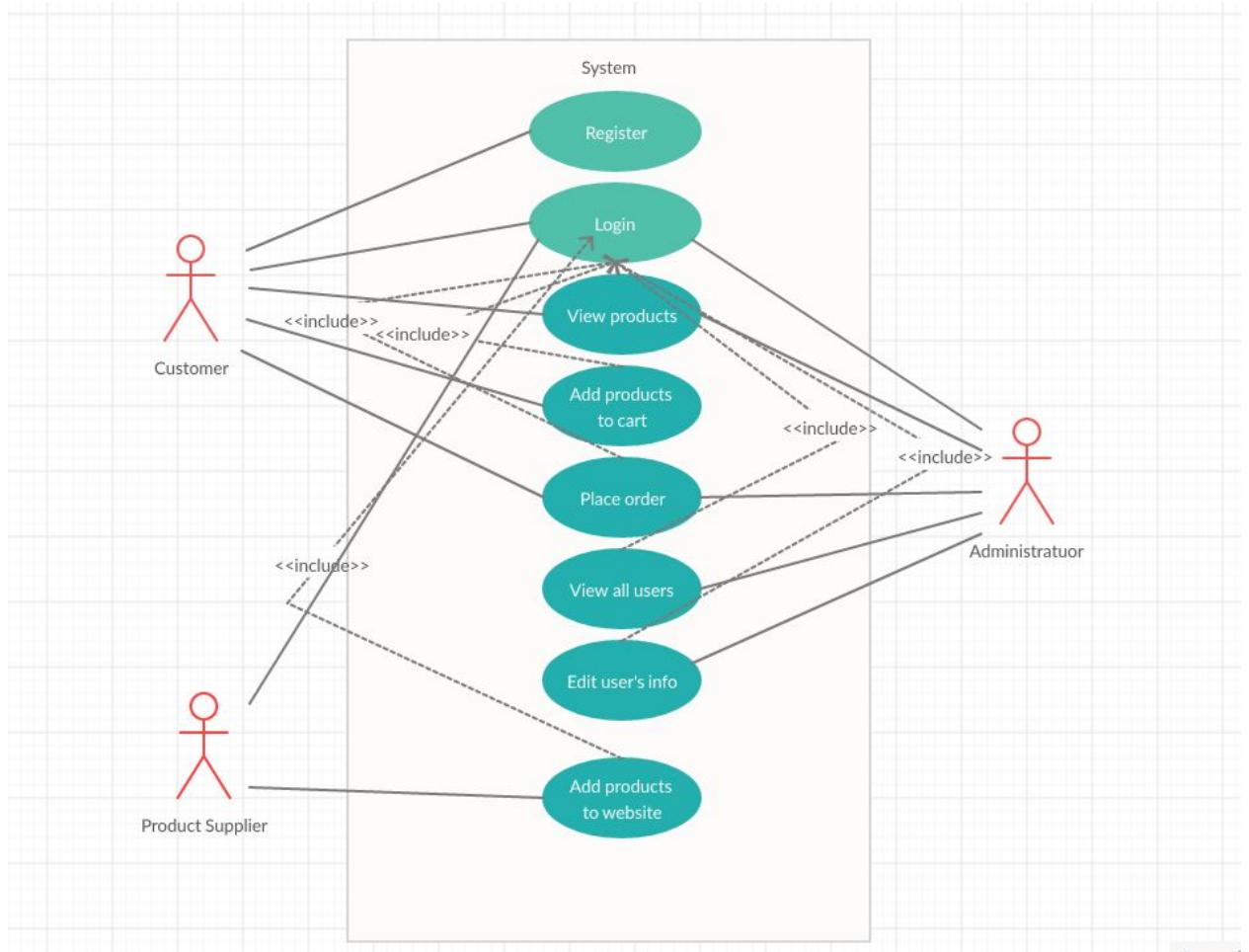
2 REQUIREMENTS

This section outlines the system functional and nonfunctional requirements.

Functional requirements:

- Administrators
 - Database management: control the database and keep track of all records of customers and employee details
 - Contact and giving permission to vendors: contact with the vendors and give permission to sell their product under the site after testing the product's quality
 - View all details: view the details of all employees and control the site
- Customers
 - Login: Customers must have a valid login id to enter into the site
 - Registration: New users can sign in by creating a new ID
 - Customers can view all the items by category
 - Customers can add items to their own cart
- Visitors
 - Visit the site: Can only visit the site without registration
 - Register
- Product suppliers
 - Add new products

3. USE-CASES



4. Main use cases

2. Main Use Cases / Scenarios		
Use case name	Brief Descriptions	Actors Involved
2.1. Browse information	The <i>User</i> can browse the information views (Home, Games Categories, Notifications, About)	All users
2.2. Register	<i>Unregistered User</i> can register in the system by providing a valid e-mail address, first and last name, and choosing password. By default, all new registered users have <i>Customer</i> role. <i>Administrator</i> can register new by entering <i>User Data</i> and choosing a Role (<i>Customer</i> or <i>Administrator</i>).	<i>Unregistered User, Administrator</i>
2.3. Change User Data	<i>Registered Users</i> can view and edit their personal <i>User Data</i> . <i>Administrator</i> can view and edit <i>User Data</i> of all <i>Users</i> . If a <i>User</i> has forgotten their password <i>Administrator</i> can reset it.	<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 (using Change User Data UC) or delete. <i>Administrator</i> can create a new user using <i>Register UC</i> .	<i>Administrator</i>
2.5. Add to shopping cart	<i>Registered users</i> can add products to their shopping cart and then purchase them.	<i>Registered User</i>
2.6. Search for a product	All users can search for available products by entering their request in the search field.	All users
2.7. Search by category	All users can search for available games on their genre, studio, platform, on discount, etc.	All users
2.8. View trailers of a game	All users can view trailers of the games.	All users
2.9. Send notifications about discounts, etc.	<i>Administrators</i> can send notifications for discounts to the website.	<i>Administrators</i> All users can see them
2.10. Checkout	When a registered user makes an order he/she can choose the checkout details of his purchase (way of payment, invoice, way of shipment, etc)	<i>Registered User</i>

5. Main views

3. Main Views (Frontend)		
View name	Brief Descriptions	URI
3.1. Home	Presents header with the logo, cart icon, sign in/log in section, search section notification banner, New and upcoming releases section, Games on sale section and footer with helpful links and other information	/
3.2. Users	Presents ability to manage (CRUD) Users and their User Data (available for Administrators only, as described in UCs).	/users
3.3. Games (products)	Presents the products that are stored in the database and the ability to add, change, delete products as defined by the Ucs.	/games
3.4. Customer orders	<i>Presents the orders the customer has placed and their status</i>	/orders
3.5. User Registration	Presents a view allowing the Anonymous Users to register in RoxStar Games.	/register
3.6. Login	Presents a view allowing the users to login.	/login
3.7. Checkout	<i>Presents the ability to choose checkout details for your order</i>	/checkout
3.8. Help	Presents FAQ section	/help
3.9. About	Presents information about the website.	/about