Project name	Agro nursery online store
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Project author		
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1. Short project description (Business needs and system features)

Project Description: Agro Nursery Online Store

The Agro Nursery Online Store is designed to allow customers to purchase nursery products. This platform will enable users to browse a wide range of plants, seeds, and gardening supplies while providing a seamless shopping experience.

Key Features:

- User-Friendly Interface: Using html/template, tailwindcss, Alpine.js for the UI and interactivity. Customers can easily navigate through the product catalog, view detailed descriptions, and make purchases.
- Real-Time Customer Support: Integrated chat support using *gorilla/websockets* allows users to connect with customer service representatives for immediate assistance.
- Secure User Registration: Users can register, manage profile data, and track their orders. Using gorilla/sessions as an auth service on the server and DB
- Product Management: Administrators can add, update, and manage products within the store efficiently. As well as see real-time statistics with e-charts
- Dynamic Routing: The application will utilize (TO BE DECIDED) gin // gorilla/mux // chi
 for server-side routing, ensuring smooth navigation between product pages and main
 views

Robust Database Management: Leveraging sqlc and pgx for PostgreSQL database interactions, the platform will ensure efficient data handling and security.

2. Main Use Cases / Scenarios Use case name **Brief Descriptions Actors Involved** 2.1. Browse Information The *User* can browse the information views (Home, Products, About) All users in the system and can choose to order products Anonymous User can register in the system by providing a valid e-mail 2.2. Register Anonymous User, Administrator address, first and last name, and choosing password. By default, all new registered users have Customer role. Administrator can register new users by entering User Data and choosing a Role (Customer, Support, or Administrator). Registered User can view and edit their personal User Data. 2.3. Change User Data Registered User, Support, Administrator Support can view User Data of all users Administrator can view and edit User Data of all Users and assign them Roles: Customer, Support, or Administrator. 2.4. Manage Users Administrator can browse and filter users based on different criteria: Administrator first and last name, email, Role. Administrator can choose a *User* to manage, and can manage the chosen User - edit (using Change User Data UC) or delete. Administrator can create a new user using Register UC. 2.5. Manage Products Administrator can browse and filter Products based on different Administrator criteria: name, category, creation date, etc.

¹ Can add like Manage subscriptions use case for automatic orders of materials

	Administrator can view statistics about products	
	Administrator can create a new Product.	
	Administrator can choose a Product to edit and delete if necessary	
2.6. Manage Orders	User can browse their orders, add new Order using Cart View	User, Support, Administrator
	Administrator, Support can browse Orders of all Users, update and delete them.	
2.7. Order a product	User can add/remove items from their Cart and order them by processing their cart order.	All users
2.8. Contact Customer Service	Registered users may contact the support of the site for issues they came across	Registered users
	Support and Administrators can answer users	

3. Main Views (Frontend)		
	Brief Descriptions	URI
3.1. Home	Show special offers and products catalog	1
3.2. Products category	Shows all subcategories of the product category	/products/{category}/
3.3. Products subcategory	Presents all store products from the subcategory	/products/{category}/{subcategory}
3.4. Product	View with full information for a product and option to order it	/product/{productId}
3.5. Customer service	Dialog chat window / Page view to contact customer support	/chat/{chatId}

3.6. User Registration	Presents a view allowing the <i>Anonymous Users</i> to register in <i>the</i> System	/register
3.7. Login	Presents a view allowing the users to login.	/login
3.8. User Data	Provides ability to view and edit personal <i>User Data</i>	/profile
3.9. Users	Presents ability to manage (CRUD) Users and their User Data (available for <i>Administrators</i> only, as described in UCs).	/users
3.10. About	Presents information about the the project and his owner.	/about

4. API Resources (Backend) Not sure it's needed as it's server-side only app		
View name	Brief Descriptions	URI
4.1. Users	GET <i>User Data</i> for all users, and POST new <i>User Data</i> (Id is autofilled by <i>the server</i> and modified entity is returned as result from POST request). 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>userld</i> , according to restrictions described in UCs.	/api/users/{userId}
4.3. Login	POST <i>User Credentials</i> (e-mail address and password) and receive a valid <i>Session Id</i>	/api/login
4.4. Logout	POST a logout request for ending the active session, and invalidating the issued <i>Session</i> .	/api/logout
4.5. Products	GET <i>Product Data</i> for all products, and POST new <i>Product Data</i> (Id is auto-filled by <i>the server</i> and modified entity is returned as result from POST request). Available only for <i>Administrators</i> .	/api/products
4.6. Product	GET, PUT, DELETE <i>Product Data</i> for <i>Product</i> with specified <i>productId</i> , according to restrictions described in UCs.	/api/products/{productId}
4.7. Chats	GET Chat Data for all chats, and POST new Chat Data (Id is auto-filled by the server and modified entity is returned as result from POST request). Available only for Administrators.	/api/chats
4.8. Chat	GET, PUT, DELETE Chat Data Chat with specified chatld.	/api/chats/{chatId}

4.9. Messages	GET Message data for all messages for specified chatld Chat, and POST new Message data (Id is auto-filled by the server and modified entity is returned as result from POST request). Available only for Administrators.	/api/chats/{chatId}/messages
4.10. Test Result	GET, PUT, DELETE Message data for Message with specified messageId in specified chatId Chat	/api/chats/{chatId}/messages/{messageId}
4.11. Orders	GET Order <i>data</i> for all orders, and POST new <i>Order data</i> (Id is autofilled by <i>the server</i> and modified entity is returned as result from POST request). Available only for <i>Administrators</i> .	/api/orders
4.12. Order	GET, PUT, DELETE <i>Order Data</i> for <i>Order</i> with specified <i>orderld</i> , according to restrictions described in UCs.	/api/orders/{orderId}