

# Software Requirements Specification

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## Functional Requirements

ID	Name	Priority
FR-01	Login with credentials	high
<b>Description:</b> The system shall allow users to log in using a username and password or Google account.		

ID	Name	Priority
FR-02	Reset password	Medium
<b>Description:</b> The system shall allow users to reset their password via email.		

ID	Name	Priority
FR-03	Add product to cart	High
<b>Description:</b> The system shall allow users to add products to their shopping cart.		

ID	Name	Priority
FR-04	Remove product from cart	High
<b>Description:</b> The system shall allow users to remove products from their shopping cart.		

ID	Name	Priority
FR-05	Process Payment	High
<b>Description:</b> The system shall allow users to submit payment for items in their shopping cart and complete the checkout process.		

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ID	Name	Priority
FR-06	Order Tracking	Medium
<b>Description:</b> The system shall allow users to view the status and details of their currently active orders.		

ID	Name	Priority
FR-07	Orders History	Medium
<b>Description:</b> The system shall allow users to view their purchase history.		

ID	Name	Priority
FR-08	Register products	High
<b>Description:</b> The system shall allow administrators to register products.		

ID	Name	Priority
FR-09	Edit products	High
<b>Description:</b> The system shall allow administrators to edit products, being able to change the name, price, description, weight, size and quantity.		

ID	Name	Priority
FR-10	Register product sale	Medium
<b>Description:</b> The system shall allow administrators to register product sales with an optional discount value.		

ID	Name	Priority
FR-11	Remove product sale	Medium
<b>Description:</b> The system shall allow administrators to remove product sales, which will remove all current links from products, even if the expiration date has not ended.		

ID	Name	Priority
FR-12	Link product sales	High

<b>Description:</b> The system shall allow administrators to link product sales to products via registration or edit forms, with the ability to add a custom expiration date for each.
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## Non-Functional Requirements

ID	Name	Category
FR-12	Response time under load	Performance
<b>Description:</b> The system shall respond to user actions within 2 seconds under normal load.		

ID	Name	Category
FR-12	Request rate limit	Security
<b>Description:</b> The system shall incorporate a rate limiting mechanism to protect against DoS attacks. This mechanism shall restrict each user to a maximum of 2 requests per second. Exceeding this limit shall result in temporary block.		

ID	Name	Category
FR-12	CORS Policy	Security
<b>Description:</b> The system shall enforce a strict CORS policy, permitting access only from a predefined whitelist of domains and only for specified HTTP methods. Any requests originating from domains outside the whitelist or using unauthorized methods will be rejected.		

ID	Name	Category
FR-12	Data encryption	Security
<b>Description:</b> The system shall encrypt any sensitive data, such as addresses, CPF, or cellphone numbers, to comply with legal requirements.		