Shop system requirements specification

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Contents

1 Functional requirements

Table 1: User account requirements

Requirement	Comment	MoSCoW
create an account	user can create 1 account for each email address user needs to provide his name and password	M
create an account via gmail	user can create an account using gmail	S
password security	password needs to be secure - has at least 8 signs, 1 digit and 1 special character	M
password reset	user can reset his password through email link	M
login with credentials	User can login to his account using valid credentials	M
login via gmail	user can login to his account using gmail, if his account is connected	S
view own profile	user can view his account details	M
edit own profile	user can edit his account details	M
add address	user can add shipping address	M
view purchase history	user can view a history of his purchases	M
view purchase details	user can view details of his purchase	M

Table 2: Product requirements

Requirement	Comment	MoSCoW
view products	user can view a list of products	M
view product details	user can view product details	M
filter by categories	user can filter products by existing categories	M
filter by text	user can search products by text filter	M
sort	user can sort products by following options: date, price	M
sort	user can sort products by following options: popularity, discount	S
featured products	store can highlight products (e.g., Valentine's Day products)	C
favourites	user can add products to his favourites	C
availability in local stores	user can see availability	W

Table 3: Shopping cart requirements

Requirement	Comment	MoSCoW
add product	user can add available product to the basket	M
product quantity	user can select available quantity of each product (max 5 of the same items per purchase)	M
remove product	user can remove product from the basket	M
add discounts	user can add multiple discouts to the shopping cart, assuming that they are not mutually exclusive	S
remove discounts	user can remove discounts before they are used	S
own shipping address	user can use one of his shipping addresses	M
one-time shipping address	user can use unique address for one-time purchase	M
shipping method	user can select available method of shipping	S
estimated shipping time	user can view estimated shipping time for each shipping method	W
payment method	user can select available method of payment	M
payment currency	user can select available payment currency	M
invoice	user can request an invoice on top of regular bill	S

Table 4: Notification requirements

Requirement	Comment	MoSCoW
bill	user will get an email with all purchase information	S
delivery	user will get emails about new delivery step	C
email marketing	user can allow personalized emails with ads	C
app marketing	user can allow personalized push notifications from the app with ads	C

Table 5: Employees

Requirement	Comment	MoSCoW
user actions	employee supersets user account	M
sell	employee can sell available product	M
discount	employee can accept purchase discount	S
return	employee can accept product return	S
complaint	employee can accept product complaint	C
order products	employee can order additional products to the store	c

Table 6: Administrator requirements

Requirement	Comment	MoSCoW
add product	admin can add new product	M
import products	admin can import products from CSV files	M
edit product	admin can edit product details	M
delete product	admin can delete products	M
add discount	admin can add discount	M
edit discount	admin can edit discount	M
delete discount	admin can delete discount	M

2 Nonfunctional requirements

Table 7: Nonfunctional requirements

Requirement	Comment
availability	system has 99% availability
compatibility	system is compatible with following browsers and all their newer versions: Firefox 90, Chrome 85, Safari 12
functionality	system validation detects 98% of errors before submission
security	only verified admin users can add, edit and delete products and discounts
performance efficiency	system can handle 100000 GET requests and 1000 POST/PUT requests per minute
scalability	system must handle an increase of 1000 active users
localization	system supports polish and english language