

1

Let's have the following behavior for number of users which can be loged into the system: 50 users can be logged into the system at the same time and it should works without any crashes / errors / etc. In case 51 user would like to log in to the application, then at once after clicking 'Log in' button the following message should appear for him (on the same place where we have login credentials - instead of them):

Warning

Systems allows only 50 users to be logged in. Please try again late.

Sorry for the inconvenience.

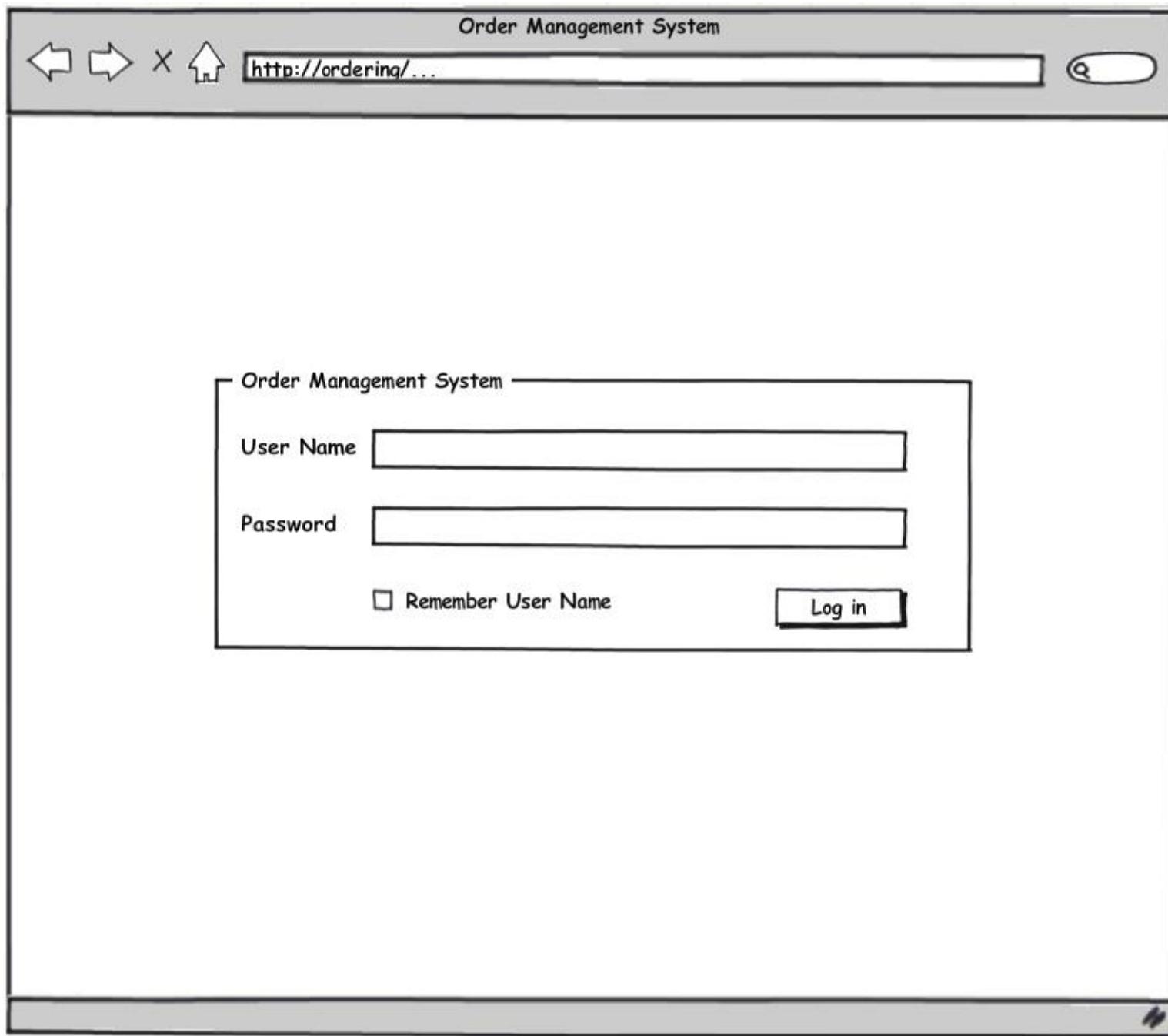
2

System should check if user is already loged into the application. If user is already loged in (through the other browser) and would like to do that again, then system should notify him that he is already loged in. At once after trying to login once again and clicking 'Log in' button the following message should appear (on the same place where we have login credentials):

Warning

This user is already logged into the system under other browser. Please use another session or log out and try to log in again.

New
Requirements
(version 3)



Order Management System

User Name 1

Password 2

Remember User Name 4 Log in 3

2) Order Management System

User Name
Such user does not exist in the system - please try again 5

Password
Password is incorrect - please try again

Remember User Name Log in

1) Order Management System

User Name
Please enter user name

Password
Please enter password

Remember User Name Log in

1) 'User Name' field is empty by default (if user name was not remembered previously on this computer)

2) 'Password' field is empty by default. Symbols entered in 'Password' field are transformed in asterisks at once after entering.

3) 'Log in' button is always enabled. Validation is performed on clicking on 'Log in' button in the following order: Login Name, Password.

4) User has chance to enter incorrect user name or password only 4 times. After the fifth one OMS Login page should be locked for 10 minutes. In case both fields are empty and user clicks 'Log in' button, then this rule should not work. In case user name or password were entered incorrectly 5 times, then the following behavior of the system should have place: User is not able to login to the application during 10 minutes from current machine. Instead of traditional login page user should see the following message:

New Requirements (version 3)

Warning message

User credentials were entered incorrectly. Page is locked for 10 minutes. Please try again later.

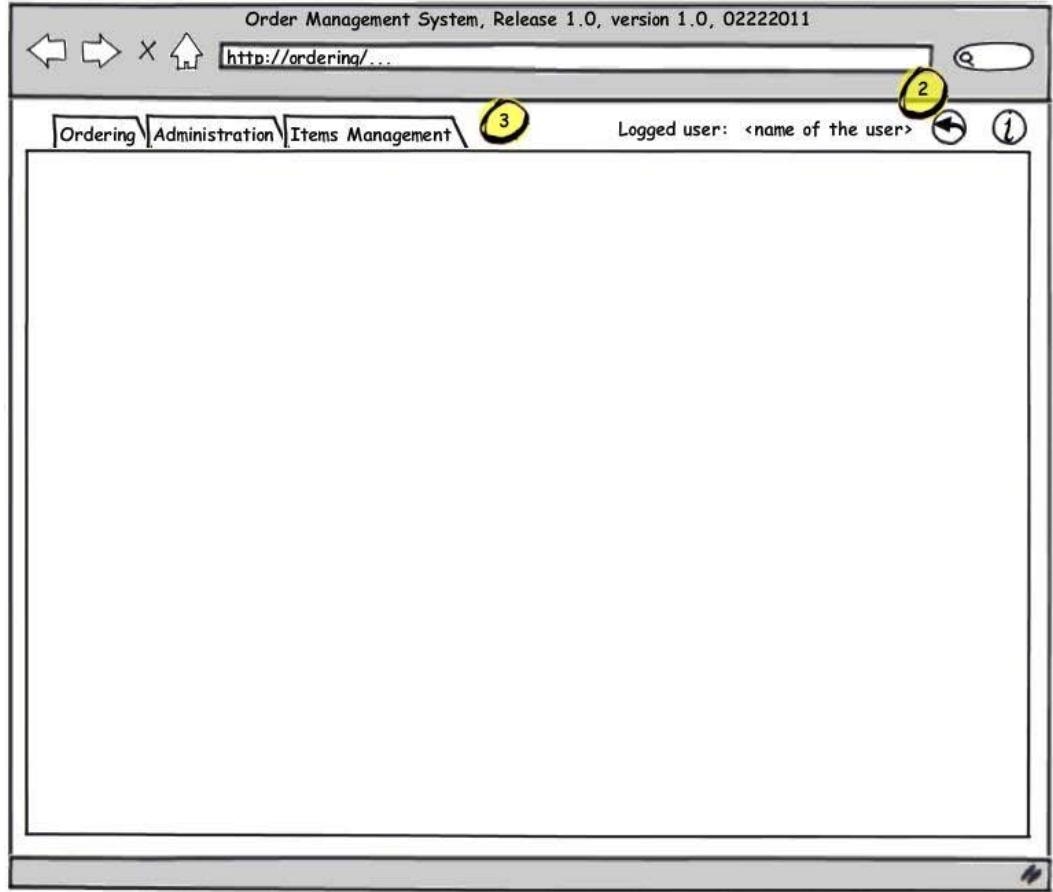
5) 'Remember User Name' option saves last entered user name on current PC.

6) 'User Name' field is highlighted in red frame (or field background) and error message below the field appears in the following situations: 1) user name is not filled in and user click on 'Log in' button; 2) incorrect user name (such user does not exist in the system) is entered in the field and user click 'Log in' button

7) 'Password' field is highlighted in red frame (or field background) and error message below the field appears in the following situations: 1) password is not filled in and user click on 'Log in' button; 2) incorrect password is entered in the field and user click 'Log in' button

Text of error messages are shown on the mock up

New Requirements (version 3)



1 After Log in application should look as shown on mock up.

Customer role sees the following tabs: "Ordering"

Merchandiser role sees the following tabs: "Ordering" (but this tab should look differently than for Customer role)

Supervisor role sees the following tabs: "Items Management".

Administrator role sees the following tabs: "Administration". Only Administrator role can create new / edit existing users

New requirement (version 2) } The name of application in browser's title should be: <name of the application>, <release number>, <version number>, <date of the build in mm/dd/yyyy format>. E.g. Order Management System, Release 1.0, version 1.0, 02222011

2 'Logged user' functionality should show the Login Name of the user which is logged into the system.

'Log out' button should log out from the application and navigate user to Login page. The following message should appear after clicking on 'Log out' button:

Warning



Are you sure you want to log out from the application?

Yes

No

New requirement (version 2) } Tooltips should appear after bringing mouse on top of "Log out" and "User Info" buttons.
Tooltips should be the following: "Log out" / "Log in", "User Info" accordingly.

3 'Items Management' tab is under construction

Administration

This page is appointed for creating new and managing existing users

[Create New User](#)

1

Number of Found Users #

2

Search by _____

Field Filter

User Name

starts with

Search

[show 25 items](#)

User Name	First Name	Last Name	Role	Email	Region	Edit	Remove	Duplicate
user1	Olya	Savchyn	Merchandiser					
user2	Vika	Nobis	Administrator					

Page #: 3 from 10

First

Backward

Forward

Last

8

8 "First", "Last", "Backward" and "Forward" buttons cause navigating in Users Grid. If only one page of users is available, pagination buttons should be disabled. In case two (or more) pages 'Forward' and 'Last' should be enabled when user on the first page, and 'First' and 'Backward' should be enabled if user on the second page.

'Page #' label shows number of currently opened page and full amount of pages in the grid.

8
New Requirement
(version 2)

1

Click on 'Create New User' link force opening of 'Create New User' page.

2

'Number of found Users' provide number of found users during the last search. In case search was not performed, than this amount should be equal to number of all users which are exist in the system.

3

"Select Field" filter contains the following values: All Columns, User Name, First Name, Last Name, Role.

"Select Condition" filter contains the following values: equals, not equal to, starts with, contains, does not contain.

Default value for "Select field" is "User Name"

Default value for "Select condition" is "starts with"

4

"show 25 items" means that for the present moment only 10 users are shown per page. Clicking on this link forces showing of 25 users per page and link is changed to "show 10 items".

5

This grid contains info about each user. The following columns should have the same width: User Name, First Name, Last Name, Role. 'Edit', 'Remove' and 'Duplicate' columns should be narrower. User should be able to perform sorting by any column (except Edit, Remove, Duplicate) in ascending and descending order. Sorting should be multi column with the help of CTRL button. Two positions for every column (Press 'Ctrl' key + click column's header): First click - Sorting in ascending order, second click - Sorting in descending order. Default sorting by User Name column in ascending order.

6

User can be edited after clicking on 'Edit' button. Page (equal to Create New User page) appear and user info can be edited.

7

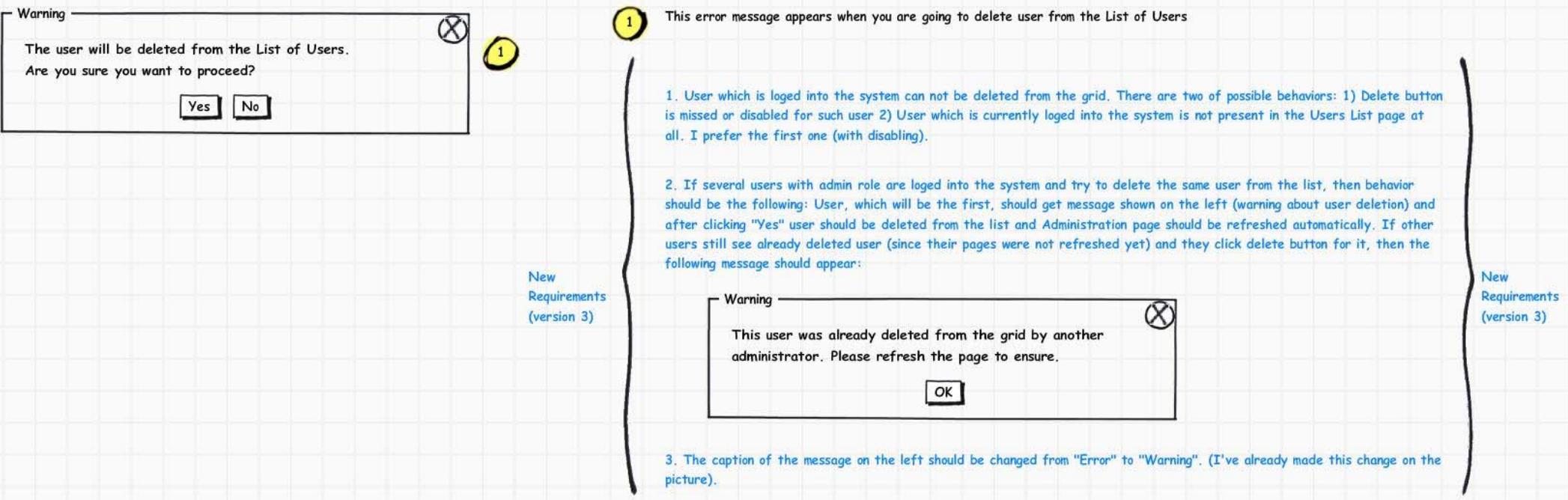
User can be deleted by clicking on 'Remove' button. The following message appear after clicking on button: "The user will be deleted from the List of Users. Are you sure you want to proceed?"

9

Duplicate functionality should duplicate selected user and open User Creation page with blank user name and password fields only. Other fields should be filled in.

10

All labels should be configurable (not only on this page but through the whole application)



Administration

Create New User

This page is appointed for creating new user for particular role

Login Name

First Name

Last Name

Password

Confirm Password

Email Address

Region ▾

Role

Administrator

Merchandiser

Supervisor

Customer

Create

Cancel

Refresh

9 This page is appointed for creating new user for particular role

This page is appointed for editing user for particular role

This page is appointed for duplicating user for particular role

1

'Login Name', 'First Name' and 'Last Name' fields are required, so they should be filled in. They are blank by default when opening this page for creating new user.

'Login Name' field allows 20 characters to be entered in. Letters, special characters and numbers are allowed.

New requirements
(version 2)

'Login Name' field cannot contain spaces. Appropriate error message should appear in case of space sign in 'Login Name' field

New requirements
(version 2)

'First Name', 'Last Name' fields allow 50 characters to be entered in. Only letters and special characters are allowed. Spaces between two words are allowed (in case name consists two or more words).

2

'Password' field is required. Password cannot be smaller than 4 characters and longer than 10. Any characters (letters, numbers, special characters) are allowed.

New requirements
(version 2)

'Password' field cannot contain spaces. Appropriate error message should appear in case of space sign in 'Password' field

New requirements
(version 2)

3

'Confirm Password' field is required and should be equal to 'Password'. Both 'Password' and 'Confirm Password' are blank by default. Characters in these fields are replaced with '*' at once after entering a character.

4

'Email Address' should be entered in particular format (e.g.: user@gmail.com). 'Email Address' is required

5

'Region' drop down has the following items: North, South, West, East. 'Region' = "North" by default.

6

'Role' section contains four items: "Administrator", "Merchandiser", "Supervisor" and "Customer" (default).

7

3 buttons are present on the form: 'Create' (or 'Update' or 'Duplicate' in case of action), 'Cancel' and 'Refresh'. All of them are always enabled and can be clicked. 'Create' button performs validation of all fields in the order they are placed on the screen. 'Cancel' button shows warning message and if user agree with cancellation it returns to 'Administration' page and cancels creating of new user. 'Refresh' button reverts last info saved on server. This means that if you create new user than after clicking on 'Refresh' button all fields will be cleaned. If you updates existing user, than last saved info about this user will be returned.

8

All labels should be configurable (not only on this page but through the whole application)

Administration

Create New User

This page is appointed for creating new user for particular role

Login Name

- { Login Name cannot be blank
- { Login Name already exists
- { Login Name is too long
- { Login Name cannot contain spaces

3 New Requirement (version 2)

First Name

- { First Name cannot be blank
- { First Name is too long
- { First Name cannot contain numbers

Last Name

- { Last Name cannot be blank
- { Last Name is too long
- { Last Name cannot contain numbers

Password

- { Password field cannot be shorter than 4 and longer than 10 characters
- { The value provided for the password does not meet required complexity
- { Password cannot contain spaces

3 New Requirement (version 2)

Confirm Password

Confirm Password is not equal to Password

Email Address

Incorrect format of Email Address

Region

 select region ▾

Role

- Administrator
- Merchandiser
- Supervisor
- Customer

Create

Cancel

Refresh

1

①

Possible error messages
for each field

Screenshot on the right shows all possible error messages which may appear. Validation is performed on 'Create' button. Each field which is incorrectly infilled should be highlighted in red (or with red frame) and one of the possible red error messages should appear.

NOTE: Only one message can appear for each field. The order of validation on 'Create' button is the following: Login Name, First Name, Last Name, Password (length), Password (complexity), Confirm Password, Email Adress.

If Password field already verified on length and it appears that amount of characters is incorrect, then validation on complexity does not performed and only error message about incorrect length appears.

Complexity verification will be the following: password should contain at least one character from each category described below (but required length should also meet):

- a. Alphabetic (A-Z)
- b. Alphabetic (a-z)
- c. Numeric (0-9)
- d. Special characters (@#\$%^&*()_+|~-=V^_0[]:;`>?,.)

If there are a couple of fields in filled incorrectly, than for each field error message should appear. This means that validation for all fields should be done and only after that all needed error messages should appear.

New Requirement
(version 2)

Spaces at the beginning and at the end of First Name and Last Name should be cut at once after click on 'Create' button.

1

Warning

Are you sure you want to cancel operation?
All data will be lost.

Yes

No



Ordering

[Create New Order](#) 1

Filter orders by:		Status <input type="button" value="▼"/>	Created <input type="button" value="▼"/>					
Search for orders by:		Order Name <input type="button" value="▼"/>	<input type="text"/>	<input type="button" value="Apply"/>				
Order Name	Total Price	Max Discount	Delivery Date	Status	Assignee	Role	Edit <input type="button" value="Edit"/>	Delete <input type="button" value="Delete"/>
Doc 1	1020\$	0%	12/23/2010	Ordered	User1	Administrator	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
<input type="button" value="First"/> <input type="button" value="Backward"/> <input type="button" value="Forward"/> <input type="button" value="Last"/>								

- 1 Click on 'Create New Order' link force opening of 'Order Details' page.
- 2 Filtering can be performed by the following columns: Status, Role
 "Status" value is selected by default in the first drop-down. In case "Status" value is selected in the first drop-down, then the following items are shown in the second one: None (default), Ordered, Pending, Delivered. In case "Role" value is selected in the first drop-down, then the following values are shown in the second one: None (default), Merchandiser, Administrator, Supervisor
- 3 Searching is performed by: Order Name (default), Status, Assignee. Filtering and searching are applied only after clicking on 'Apply' button. Searching is performed like "start with" operator.

3 Grid contains and shows all orders which are created. Orders can be deleted and edited. Click on 'Edit' button for any order forces opening "Order Details" page for this order. User should be able to sort orders by any column (except Edit and Delete) in ascending and descending order

Below warning message is shown when user tries to delete any order

Warning

The order will be deleted from the List of Orders.
Are you sure you want to proceed?

<Order Number>

This page is appointed for selecting and buying products

Items Selection

Add Item		Items Selection							
Item Number	Item Name	Item Description	Dimension	Price	Quantity	Price per Line	Edit	Delete	
101	Product1	Product1	Item	10.00\$	2	20.00\$			
102	Product2	Product2	Box	100.00\$	1	1000.00\$			

show 10 lines ▾

First Backward Forward Last

Totals

Order Number	<input type="text"/>
Status	Ordered
Total Price	1020.00\$
Total Number of Items	12
Date of Ordering	12/2/2010
Preferable Delivery Date	/ /
Delivery Date	//
Assignee	Administrator

Card Info

Credit Card Type *	Visa
Credit Card Number *	<input type="text"/>
CVV2 Code (What is this?) *	<input type="text"/>
Expiry Date *	/ /
Start Date (Maestro only) *	/ /
Issue Number (Maestro only)	<input type="text"/>

* fields are mandatory

Save Order Cancel

- 1 This page is applicable for user with Customer role.
- 2 'Add Items' button forces opening of 'Add Items' page with list of available products. Only one product can be added. Quantity and dimension can be entered for selected product as well.
- 3 'Show lines' drop-down contains the following items: "Show 10 lines" (default) and "Show 25 lines".
- 4 'Items' grid represents list of items (products) which selected by Customer. All fields in the grid are read-only and can be edited only after clicking on "Edit" button. Each item has his 'Item Number', 'Item Name', 'Item Description'. For each item 'Dimension' can be selected while selecting item (but not in here in the grid). 'Price' represents defined before price of the product for this particular customer.
- 'Price per Line' value equals to the following: Dimension x Price x Quantity.
- 'Dimension' can be the following: 'Item', 'Box', 'Package'. "Item" value means that only one item is selected. "Box" means that there are 5 items on the box and all of them are selected by customer. So, this means that 'Price per line' will be multiplied by 5. "Package" means that there are 10 items in package and all of them are ordered by customer. So, 'Price per Line' will be multiplied by 10.
- 'Edit' button forces opening of 'Add Items' window where previous item can be changed to any other from the list. Quantity and Dimension are also can be changed for newly selected product.
- 'Delete' button forces deleting item from the grid. The following message appears at once after clicking on 'Delete' button:
- Warning
- Are you sure you want to delete this item?
- Yes No

<Order Number>

This page is appointed for selecting and buying products

Items Selection

Add Item								
Item Number	Item Name	Item Description	Dimension	Price	Quantity	Price per Line	Edit	Delete
101	Product1	Product1	Item	10.00\$	2	20.00\$	<input type="button" value="E"/>	<input type="button" value="Delete"/>
102	Product2	Product2	Box	100.00\$	1	1000.00\$	<input type="button" value="E"/>	<input type="button" value="Delete"/>

show 10 lines ▾

First Backward Forward Last 5

Totals

Order Number	<input type="text"/>
Status	Ordered
Total Price	1020.00\$
Total Number of Items	12
Date of Ordering	12/2/2010
Preferable Delivery Date	<input type="text"/> / <input type="button" value="Calendar"/>
Delivery Date	//
Assignee	<input type="button" value="Administrator"/>

Card Info

Credit Card Type *	<input type="button" value="Visa"/>
Credit Card Number *	<input type="text"/>
CVV2 Code (What is this?) *	<input type="text"/>
Expiry Date *	<input type="text"/> / <input type="button" value="Calendar"/>
Start Date (Maestro only) *	<input type="text"/> / <input type="button" value="Calendar"/>
Issue Number (Maestro only)	<input type="text"/>

* fields are mandatory

Save Order Cancel

5 "First", "Last", "Backward" and "Forward" buttons cause navigating in Items grid. If only one page of items is available, pagination buttons should be disabled. In case two (or more) pages 'Forward' and 'Last' should be enabled when user on the first page, and 'First' and 'Backward' should be enabled if user on the second page.

6 'Order Number' is editable field and it should be unique through the application. So, it can contains alphabetic characters and numbers. It can be entered by user (customer) or in case it becomes blank after clicking on 'Save' or 'Order' buttons, system automatically gives Order Number for this order. Automatic 'Order Number' should be set against to the following template: "00000#" (e.g.: "000001", "000002" etc). In case user enters Order Number which already exists, then at once after clicking on Save or Order button, error message should appear.

'Status' of the order can be the following: Created / Pending / Ordered / Delivered. If user with Customer role creates order and just saves it, it means that order becomes in "Created" status. In case user clicks 'Order' button, it means that status automatically is changed to "Pending". If merchandiser starts reviewing this order and perform ordering, then status automatically changed to "Ordered". If order is already delivered, then status should be automatically changed to "Delivered".

'Total Price' is equal to sum of 'Price per Line'. 'Total Number of Items' is equal to: sum (Quantity x Dimension).

Calculation of 'Total Price' and 'Total Number of Items' is performed automatically at once after user adds new product. So, each time when user adds new product re-calculation is performed.

'Date of Ordering' is equal to today's date and can not be edited. 'Preferable Delivery Date' is edit field and should be selected by customer.

'Delivery Date' is blank by default. It becomes equal to some delivery date only after merchandiser set it.

Error message on Save appears in case 'Preferable Delivery Date' goes before then 'Date of Ordering'.

In case incorrectness of 'Preferable Delivery Date', field should becomes red (red background or red frame).

'Assignee' drop-down contains list of merchandisers and value "-me-" (default). If user clicks 'Order' button, then merchandiser in Assignee field should be selected.

<Order Number>

This page is appointed for selecting and buying products

Items Selection

Add Item								
Item Number	Item Name	Item Description	Dimension	Price	Quantity	Price per Line	Edit	Delete
101	Product1	Product1	Item	10.00\$	2	20.00\$		
102	Product2	Product2	Box	100.00\$	1	1000.00\$		

show 10 lines ▾

First Backward Forward Last

Totals

Order Number	<input type="text"/>
Status	Ordered
Total Price	1020.00\$
Total Number of Items	12
Date of Ordering	12/2/2010
Preferable Delivery Date	/ /
Delivery Date	//
Assignee	Administrator

Card Info

Credit Card Type *	<input type="text" value="Visa"/>
Credit Card Number *	<input type="text"/>
CVV2 Code (What is this?) *	<input type="text"/>
Expiry Date *	/ /
Start Date (Maestro only) *	/ /
Issue Number (Maestro only)	<input type="text"/>

* fields are mandatory

Save Order Cancel

7 'Credit Card Type' drop-down contains the following values: Visa (default), MasterCard, American Express, Maestro.

'Credit Card Number' should contain numbers only. The amount of entered numbers should be equal to 16 for each credit card type.

'CVV2 Code' should contain numbers only. Amount of entered numbers should be equal to 3 for each credit card type.

'Expiry Date' is edit field which should contain info about expiration date of credit card. By default it equals to today's date. In case Start Date is incorrect (goes before Expiry date or has incorrect format), then error message on Order button should appear.

'Start Date (Maestro only)' is used only for Maestro card type. This field should be disabled for any other type of the card. by default start date is equal to today's date. In case Issue Number contains not allowed characters or more than one sign, then error message on Order should appear.

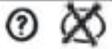
'Issue Number (Maestro only)' is used only for Maestro card type. This field should be disabled in case of any other credit card number selection. Only one digit should be entered in this field. But it is not mandatory, so it can be skipped even in case Maestro card type.

8 'Save' button is always enabled. This button performs the following validations in the following order: 1) if there are at least one product in the 'Items' grid; 2) if 'Order Number' is unique; 3) if 'Preferable Delivery Date' is correct. It does not verify if 'Card Info' section is filled in correctly or if its blank at all.

'Order' button becomes enabled only after save is performed. It becomes disabled in case any new changes were done with Order Details page (except 'Card Info' section) and save was not performed after that. 'Order' button performs validation of 'Credit Card Info' section and 'Assignee' drop-down in the following order: 1) if merchandiser is selected in 'Assignee' drop-down; 2) if 'Credit Card Number' is correct; 3) if 'CVV2 Code' is correct; 4) if 'Expiry Date' is at least 3 days after today's date; 5) 'Start Date (Maestro)' - TBD; 6) 'Issue Number (Maestro)' - TBD.

'Cancel' button shows warning message in case order was not saved and closes Order tab without any messages in case Order was saved.

<Order Number>



This page is appointed for analysing customer orders and perform ordering

Items Selection

show 10 lines ▾

Item Number	Item Name	Item Description	Dimension	Price	Quantity	Price per Line
101	Product1	Product1	Item	10.00\$	2	20.00\$
102	Product2	Product2	Box	100.00\$	1	1000.00\$

First Backward Forward Last

1

Totals

Customer Name	osavchyn	Status	<input type="checkbox"/> Ordered <input type="checkbox"/> Delivered
Customer Type	Silver	Delivery Date	<input type="text" value="12/10/2010"/>
Order Number	1		<input type="checkbox"/> Gift
Total Price	1020.00\$		
Total Number of Items	12		
Assignee	vnobis		
Date of Ordering	12/2/2010		
Preferable Delivery Date	12/6/2010		

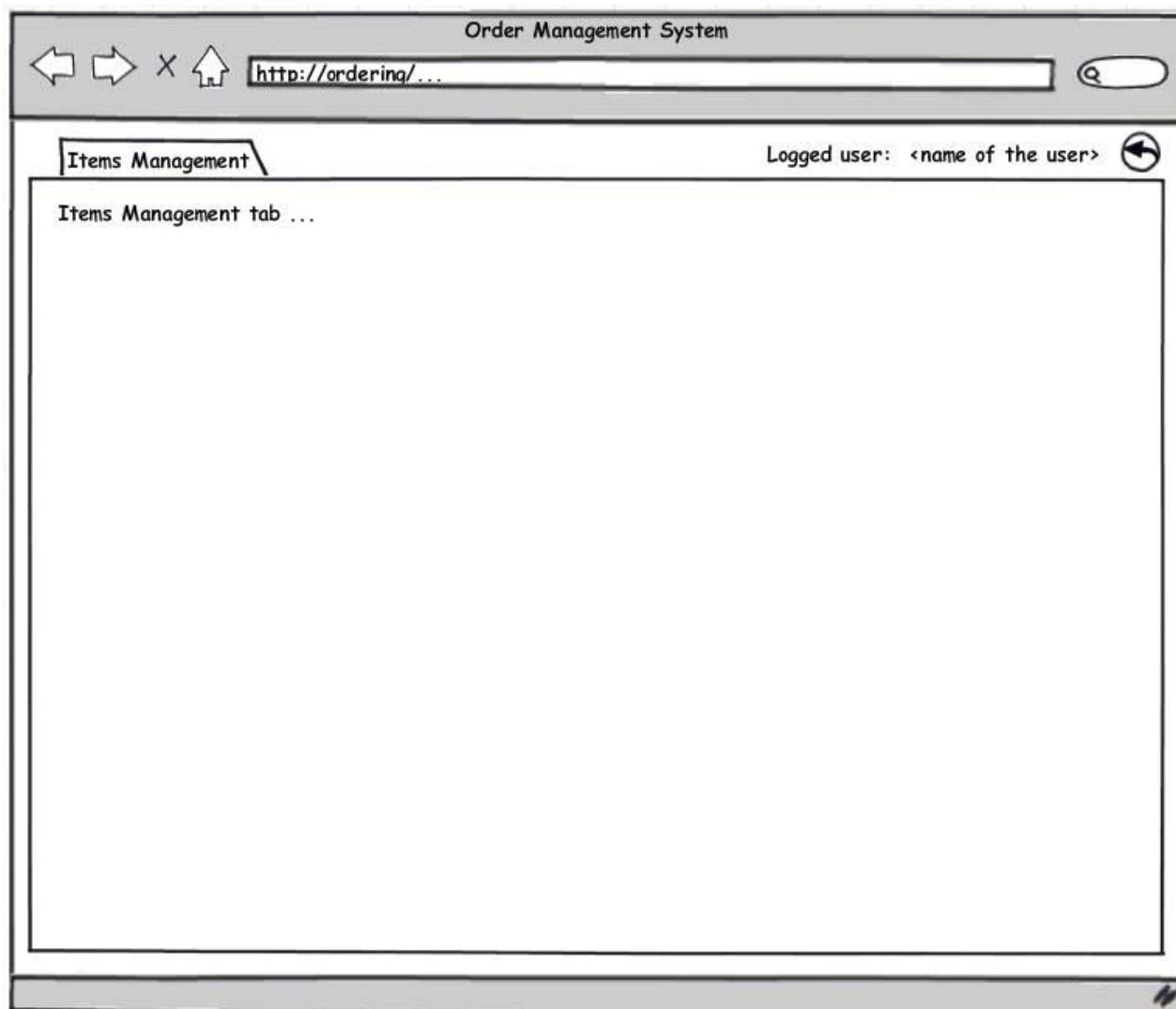
2

Save Order Cancel

Item Search

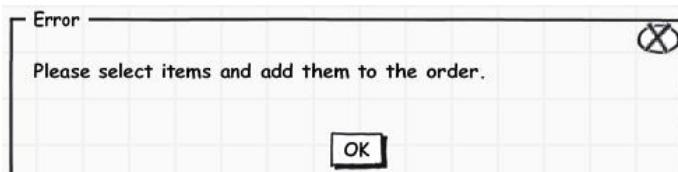
Search for item by:		
Item Name	<input type="text"/> Search	
Item Name	Item Description	
Sony C10	Description for Sony C10	
<input type="button" value="Add"/>		
Item	Sony C10	4
Price	50\$	
Quantity	<input type="text" value="1"/>	5
Dimension	<input type="text" value="Item"/>	
<input type="button" value="Remove"/> <input type="button" value="Done"/> <input type="button" value="Cancel"/>		

- 1 'Search for item by' drop-down contains two values: "Item Name" and "Item Description". Searching is performed only like "start with" operator.
Edit field should not be case sensitive.
Wild-cards are not allowed.
- 2 Note: all edit fields through the whole application should work according to rules described above (should not be case sensitive and wild-cards are not supported)
- 2 Grid shows all items by default and sorted by Item Name in ascending order (default). Sorting by both columns in ascending and descending order should work.
- 4 Only one product can be added to the grid using this page. To add one more product need to open this dialog again.
- 4 'Item' data control is empty by default. In case any product is added, then it is shown at once after 'Item' label. 'Price' field is empty by default. And only after product is added it shows the price for this product, but based on Customer Type.
- 5 In 'Quantity' edit fields only numbers can be entered. Default value is "1". User can enter any number of selected product. In case some not allowed characters are entered in this field, then value should be automatically changed to default (1).
- 6 'Dimension' drop-down contains the following items: 'Item' (default), 'Box', 'Package'.
- 6 'Remove' button removes item from the bottom table: it cleans 'Item', 'Price' fields and turns 'Quantity' and 'Dimension' fields to default values.
- 6 'Done' button closes 'Item Search' page and adds product to the 'Item' grid.
- 6 'Cancel' functionality: force closing of 'Item Search' page and any item should not be added to the grid.

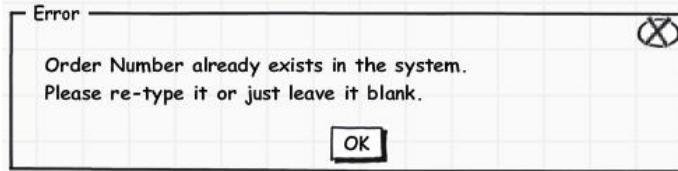


1 'Items Management' tab is under construction

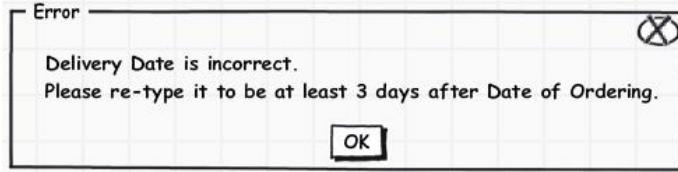
1



This error message appear on Save button in case Items grid is blank.



This error message appear on Save button in case Order Number is already exists in the system.



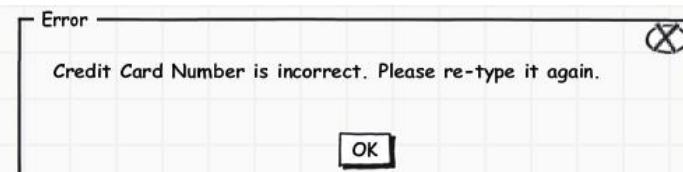
This error message appear on Save button in case Delivery Date is incorrect.



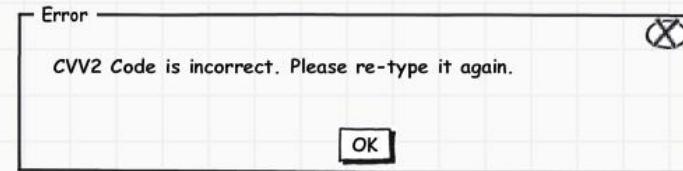
This error message appear on Order button in case Start Date for Maestro card goes before Expiry Date or contains incorrect characters.



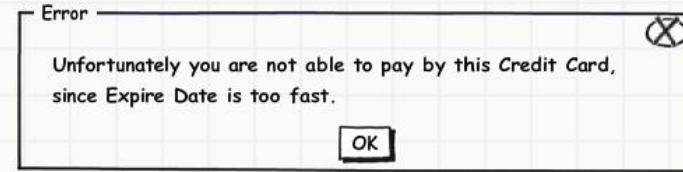
This error message appear on Order button in case Issue Number is incorrect (contains more than one character or contains not allowed characters - alphabetic / special / etc).



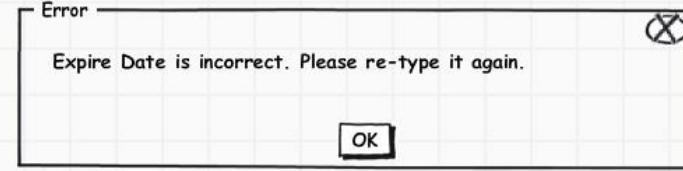
This error message appear on Order button in case Credit Card Number is incorrect.



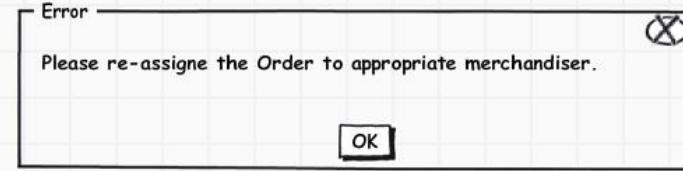
This error message appear on Order button in case CVV2 Code is incorrect.



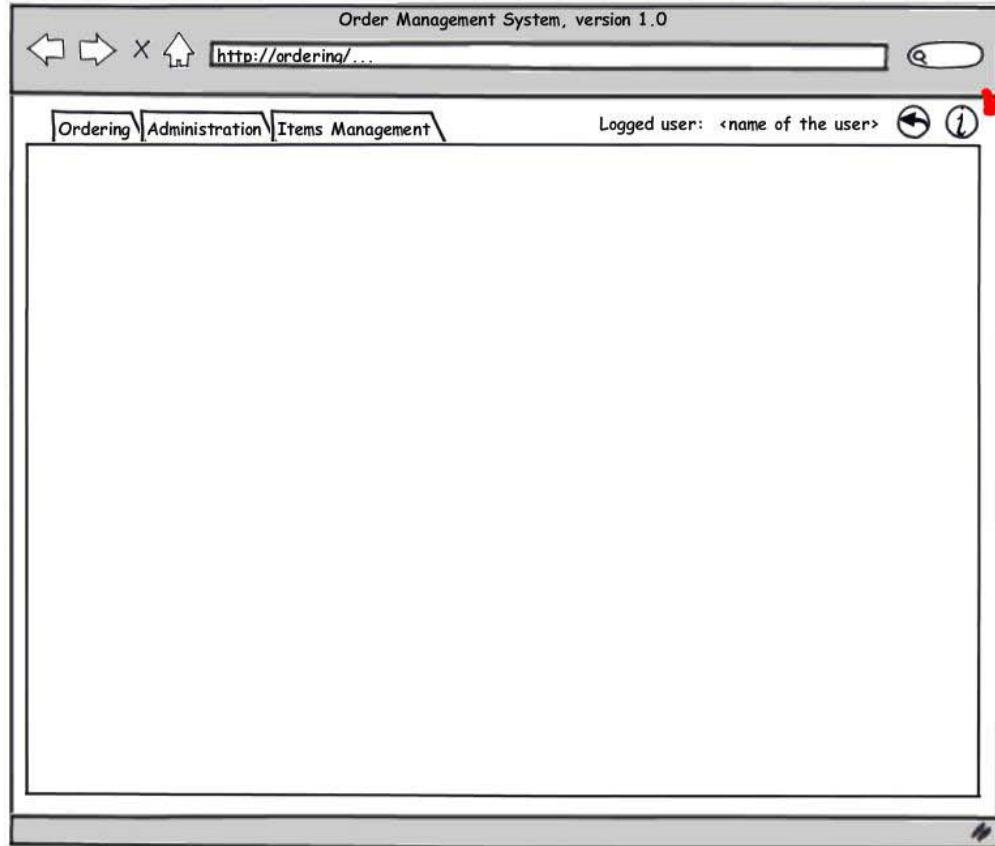
This error message appear on Order button in case Expire Date is too fast (less than 3 days after today's date).



This error message appear on Order button in case Expire Date is incorrect (less than current today's date).



This error message appear on Order button in case merchandiser is not selected in 'Assignee' field.



User Info	
User Name	osavchyn
Role	Administrator
Customer Type	Silver
Account Balance	2000\$

Each user of the application can take a look at his personal info. Just need to click icon on web and user will have an ability to see his name, role and type. Also his balance (how much he spent by products through the application) and how much left to become next Customer Type. This information can not be edited (just viewed).

Ranges for each Customer Type are the following: 1) Standard (0\$ - 1000\$); 2) Silver (1000\$ - 3000\$); 3) Gold (3000\$ - 10000\$); 4) Platinum (10000\$ - ...).