

## BCEO Use Cases

### Team name

BOO (Business in Online and Offline)

### Android App Title

BCEO (be a CEO of your own trustworthy second-hand market)

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### List of Use Cases

Use Case ID	Use Case Name	Frequency	Check List
SIGN-UP	Sign up	Low	✓
AUTH-USR	Authenticate User	High	✓
SRCH-GRP	Search Group	Low	✓
JOIN-GRP	Join Group	Low	✓
ENTR-GRP	Enter Group	High	✓
SWTCH-GRP	Switch outGroup	Medium	✓
READ-ITEM	Read Item	High	✓
CREATE-ITEM	Create Item	High	✓
UPDATE-ITEM	Update Item	High	✓
DELETE-ITEM	Delete Item	High	✓
SEARCH-ITEM	Search Item	High	✓
GET-NOTI	Get Notification	High	✓
SEND-NOTI	Send Notification	High	✓
LEAVE-GRP	Leave Group	Low	✓

Use Case ID	Use Case Name	Frequency	Check List
REC-AUD	Record Audio Message	Low	✓
PLA-MESG	Play Pre-record Message	High	✓
TAKE-PHOTO	Take Photo	Medium	✓

### User Requirements Model – Detailed Use Case Specifications

**Table 1** Use Case Details - SIGN-UP: Sign up

<b>Use Case ID:</b> SIGN-UP	<b>Use Case Name:</b> Sign up
<b>Primary Actor(s):</b>	All BCEO user want to be
<b>Secondary Actor(s):</b>	N/A
<b>Description:</b>	Sign up the user with username and password into BCEO system
<b>Preconditions:</b>	Sign up display page is available and waiting for user input for user ID (email address) and password text fields
<b>Normal Flow of Events:</b>	<ol style="list-style-type: none"> <li>1. User enters user ID in ID field textbox and then clicks into password field and enters password</li> <li>2. User clicks "Sign Up"</li> </ol>
<b>Postconditions:</b>	User with given ID and password will be created into BCEO system.
<b>Frequency of Use:</b>	Low
<b>Alternative Flows:</b>	User can clear a misspelled ID or password
<b>Exceptions:</b>	<p>User does not enter data in the ID or password field and is given a message that all fields need to contain information or has entered an invalid ID or password</p> <p>User ID already exists in the system and BCEO will give the user message to use other ID because it exists in the system.</p>
<b>Assumptions:</b>	BCEO is up and running
<b>Issues:</b>	TBD
<b>Source:</b>	TBD
<b>Includes:</b>	TBD

<b>Associated Requirements:</b>	TBD
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**Table 2** Use Case Details - AUTH-USR: Authenticate User

<b>Use Case ID:</b> AUTH-USR	<b>Use Case Name:</b> Authenticate User
<b>Primary Actor(s):</b>	All authorized users of BCEO
<b>Secondary Actor(s):</b>	N/A
<b>Description:</b>	Requests username and password and authenticates user into BCEO system
<b>Preconditions:</b>	User login display page is available and waiting for user input
<b>Normal Flow of Events:</b>	1. User enters user ID in ID field textbox and then clicks into password field and enters password 2. User clicks "Sign In"
<b>Postconditions:</b>	After step 2, the choosing the group page of BCEO display appears.
<b>Frequency of Use:</b>	High
<b>Alternative Flows:</b>	User can clear a misspelled ID or password
<b>Exceptions:</b>	User does not enter data in the ID or password field and is given a message that all fields need to contain information or has entered an invalid ID or password
<b>Assumptions:</b>	BCEO is up and running, user has obtained a valid ID and password from the system administrator
<b>Issues:</b>	User never has no id or password.
<b>Source:</b>	TBD
<b>Includes:</b>	TBD
<b>Associated Requirements:</b>	TBD

**Table 3** Use Case Details - SRCH-GRP: Search Group

<b>Use Case ID:</b> SRCH-GRP	<b>Use Case Name:</b> Search Group
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<b>Primary Actor(s):</b>	All authorized users of BCEO
<b>Secondary Actor(s):</b>	N/A
<b>Description:</b>	Search a group with given name in BCEO and displays it to the user's group list
<b>Preconditions:</b>	User is already logged in to BCEO and Group GUI is displayed.
<b>Normal Flow of Events:</b>	1. User clicks the "Add Group" drop-down, user can see all the available group list in alphabetical order. 2. User clicks his/her group.
<b>Postconditions:</b>	After step 2, the desired group button with given name appears.
<b>Frequency of Use:</b>	Low
<b>Alternative Flows:</b>	If user push group button for 2 seconds, delete button will appear on the corner so that user can delete a group.
<b>Exceptions:</b>	
<b>Assumptions:</b>	BCEO is up and running
<b>Issues:</b>	TBD
<b>Source:</b>	TBD
<b>Includes:</b>	TBD
<b>Associated Requirements:</b>	TBD

**Table 4** Use Case Details - JOIN-GRP: Join Group

<b>Use Case ID:</b> JOIN-GRP	<b>Use Case Name:</b> Join Group
<b>Primary Actor(s):</b>	All authorized users of BCEO
<b>Secondary Actor(s):</b>	N/A
<b>Description:</b>	Join a clicked group in BCEO and add it to the user's group list
<b>Preconditions:</b>	User only can choose groups that exist on BCEO.

<b>Normal Flow of Events:</b>	User clicks the button with group name to join
<b>Postconditions:</b>	Email verification has sent to the user's desired group's domain email address, and verify email message prompt is shown.
<b>Frequency of Use:</b>	Low
<b>Alternative Flows:</b>	<p>User clicks the group. User is already logged in with the group's domain email address. BCEO lets user join the group and add it to the user's group list. User moves onto the main page of BCEO.</p> <p>User clicks the group. BCEO displays dialog with email address field. User fill out the email address with the group's domain. User clicks "Send Verification Email" button.</p>
<b>Exceptions:</b>	User inputs non-existing group name. BCEO displays "group doesn't exist" message
<b>Assumptions:</b>	Group exists in BCEO
<b>Issues:</b>	TBD
<b>Source:</b>	TBD
<b>Includes:</b>	TBD
<b>Associated Requirements:</b>	TBD

**Table 5** Use Case Details - ENTR-GRP: Enter Group

<b>Use Case ID:</b> ENTR-GRP	<b>Use Case Name:</b> Enter Group
<b>Primary Actor(s):</b>	Authorized member of the group
<b>Secondary Actor(s):</b>	N/A
<b>Description:</b>	Enter into the group's main page
<b>Preconditions:</b>	User is authenticated as a valid member of the group
<b>Normal Flow of Events:</b>	User clicks the button with group name to join
<b>Postconditions:</b>	The main page of the group appears (NewsFeed GUI)
<b>Frequency of Use:</b>	Low

<b>Alternative Flows:</b>	TBD
<b>Exceptions:</b>	N/A
<b>Assumptions:</b>	Group exists in BCEO and appears on user's group list
<b>Issues:</b>	TBD
<b>Source:</b>	TBD
<b>Includes:</b>	TBD
<b>Associated Requirements:</b>	TBD

**Table 6** Use Case Details - SWTCH-GRP: Leave Group

<b>Use Case ID:</b> SWTCH-GRP	<b>Use Case Name:</b> Switch out Group
<b>Primary Actor(s):</b>	Authorized member of the group
<b>Secondary Actor(s):</b>	N/A
<b>Description:</b>	Leave a group the user is in and redirect the user to the Group selection page
<b>Preconditions:</b>	User is already the member of the group
<b>Normal Flow of Events:</b>	User clicks the leave button to leave the group and the use will be switched out from the group
<b>Postconditions:</b>	User will get redirected to Group Selection page where all available, already joined group lists are shown.
<b>Frequency of Use:</b>	MEDIUM
<b>Alternative Flows:</b>	<p>User clicks the leave button. User clicks cancel button when confirmation dialog appears. User stays in the same page where user clicked the leave button from.</p> <p>User clicks the leave button. User confirms the leave. BCEO displays available group lists that user has joined on Group Page.</p>
<b>Exceptions:</b>	TBD
<b>Assumptions:</b>	User is already inside the group

<b>Issues:</b>	TBD
<b>Source:</b>	TBD
<b>Includes:</b>	TBD
<b>Associated Requirements:</b>	TBD

**Table 7** Use Case Details - READ-ITEM: Read Item

<b>Use Case ID:</b> READ-ITEM	<b>Use Case Name:</b> Read Item
<b>Primary Actor(s):</b>	Authorized member of the group, potential buyer of the product
<b>Secondary Actor(s):</b>	Seller of the product to check the correctness of item information
<b>Description:</b>	Get the data of the item
<b>Preconditions:</b>	Item's picture is shown as a thumbnail in the main page of the group
<b>Normal Flow of Events:</b>	User clicks the thumbnail to read about the item
<b>Postconditions:</b>	Product page with detailed Item description page appears
<b>Frequency of Use:</b>	High
<b>Alternative Flows:</b>	User clicks on the item. Item has been deleted before description page shows up. BCEO displays error message.  User clicks on the item. User gets redirected to Product page.
<b>Exceptions:</b>	User clicks on to the item loaded in the NewsFeed page before the seller deletes the item. BCEO displays "item does not exist" message
<b>Assumptions:</b>	There is one or more items shown on the NewsFeed page to be clicked on.
<b>Issues:</b>	TBD



<b>Source:</b>	TBD
<b>Includes:</b>	TBD
<b>Associated Requirements:</b>	TBD

**Table 8** Use Case Details - CREATE-ITEM: Create Item

<b>Use Case ID:</b> CREATE-ITEM	<b>Use Case Name:</b> Create Item
<b>Primary Actor(s):</b>	Seller
<b>Secondary Actor(s):</b>	N/A
<b>Description:</b>	Create item, add it into seller's My Shop and add it into Group main page
<b>Preconditions:</b>	Product Create Page is shown with Title, Price, Description field available
<b>Normal Flow of Events:</b>	User fills in all available fields and click upload to create item.
<b>Postconditions:</b>	Product has been created, added to the database, added to My Shop and news feed (Group main page) and detailed Item description page appears to user
<b>Frequency of Use:</b>	High
<b>Alternative Flows:</b>	<p>User clicks on "sell" button. Item has been uploaded and the user is redirected to My Shop page with item added and shown on the page.</p> <p>User clicks on the item. User gets redirected to detailed item description page.</p>
<b>Exceptions:</b>	<p>User does not enter data in the all fields given and is given a message that all fields need to contain information</p> <p>User has entered an invalid format for any of the field</p>
<b>Assumptions:</b>	There is one or more items shown on the Group main page to be clicked on.
<b>Issues:</b>	TBD

<b>Source:</b>	TBD
<b>Includes:</b>	TBD
<b>Associated Requirements:</b>	TBD

**Table 9** Use Case Details - UPDATE-ITEM: Update Item

<b>Use Case ID:</b> UPDATE-ITEM	<b>Use Case Name:</b> Update Item
<b>Primary Actor(s):</b>	Seller
<b>Secondary Actor(s):</b>	N/A
<b>Description:</b>	Update item
<b>Preconditions:</b>	Product Update Page is shown with Title, Price, Description field filled in with saved materials
<b>Normal Flow of Events:</b>	User fills in all available fields and click upload to update item.
<b>Postconditions:</b>	Product has been updated with newly filled descriptions, and My Shop and database information are all updated
<b>Frequency of Use:</b>	High
<b>Alternative Flows:</b>	<p>User clicks on “update” button. Item has been updated and the user is redirected to Product Page (detailed Item page) with updated descriptions shown on the page.</p> <p>User clicks cancel and goes back to the Product Page.</p>
<b>Exceptions:</b>	User has entered an invalid format for any of the field and BCEO gives error message
<b>Assumptions:</b>	There is an item already created so that user can update. All fields are already filled with pre-update descriptions.
<b>Issues:</b>	TBD
<b>Source:</b>	TBD
<b>Includes:</b>	TBD
<b>Associated Requirements:</b>	TBD

**Table 10** Use Case Details - DELETE-ITEM: Delete Item

<b>Use Case ID:</b> DELETE-ITEM	<b>Use Case Name:</b> Delete Item
<b>Primary Actor(s):</b>	Seller
<b>Secondary Actor(s):</b>	N/A
<b>Description:</b>	Delete item, delete it from seller's My Shop and delete it from Group main page
<b>Preconditions:</b>	Product Page (detailed item page) is shown with Title, Price, Description and delete button shown
<b>Normal Flow of Events:</b>	User clicks delete button and item will get deleted.
<b>Postconditions:</b>	Product has been deleted, removed from database and My Shop page as well as from Group main page where news feeds are.
<b>Frequency of Use:</b>	High
<b>Alternative Flows:</b>	<p>User clicks on "cancel" button when confirmation of deletion dialog pops up. User will stay in Product page before clicking the delete button.</p> <p>User clicks confirmation of deletion. Item will get deleted and User gets redirected to My Shop page.</p>
<b>Exceptions:</b>	TBD
<b>Assumptions:</b>	The item already exists in the database and there is an item to be deleted.
<b>Issues:</b>	TBD
<b>Source:</b>	TBD
<b>Includes:</b>	TBD
<b>Associated Requirements:</b>	TBD

**Table 11** Use Case Details - SEARCH-ITEM: Search Item

<b>Use Case ID:</b> SEARCH-ITEM	<b>Use Case Name:</b> Search Item
<b>Primary Actor(s):</b>	Buyer and Seller, all authorized members of the particular group
<b>Secondary Actor(s):</b>	N/A
<b>Description:</b>	Search item with keyword or category and shows the results to the user
<b>Preconditions:</b>	Group main page is shown where all available items are shown in thumbnail, and search area is also shown on the top of the page
<b>Normal Flow of Events:</b>	User fills in search field with name or keyword and click search button
<b>Postconditions:</b>	Product has been searched, shown to user with thumbnail
<b>Frequency of Use:</b>	High
<b>Alternative Flows:</b>	<p>User clicks on “search” button. Item has been found and shown to the user.</p> <p>User clicks on “search” button. Item doesn’t exist and user gets the non-existing item message.</p>
<b>Exceptions:</b>	<p>Item user is looking for does not exist in the group page and BCEO will give message saying “item looking for does not exist”</p> <p>User has entered an invalid format or invalid name of item in the search field and BCEO will give error message</p>
<b>Assumptions:</b>	User is already in the group page
<b>Issues:</b>	TBD
<b>Source:</b>	TBD
<b>Includes:</b>	TBD
<b>Associated Requirements:</b>	TBD

**Table 11** Use Case Details - GET-NOTI: Get Notification

<b>Use Case ID:</b> GET- NOTI	<b>Use Case Name:</b> Get Notification
<b>Primary Actor(s):</b>	Seller
<b>Secondary Actor(s):</b>	N/A
<b>Description:</b>	Get the lists of notifications user got so far
<b>Preconditions:</b>	User is inside the BCEO, and able to click the button to Notification Center Page
<b>Normal Flow of Events:</b>	User clicks the Notification button in the app.
<b>Postconditions:</b>	User gets redirected to Notification Center Page with all notifications got so far showing up.
<b>Frequency of Use:</b>	High
<b>Alternative Flows:</b>	TBD
<b>Exceptions:</b>	N/A
<b>Assumptions:</b>	User already in the BCEO, and notification button available to be clicked.
<b>Issues:</b>	TBD
<b>Source:</b>	TBD
<b>Includes:</b>	TBD
<b>Associated Requirements:</b>	TBD

**Table 12** Use Case Details - SEND-NOTI: Send Notification

<b>Use Case ID:</b> SEND-NOTI	<b>Use Case Name:</b> Send Notification
<b>Primary Actor(s):</b>	Buyer
<b>Secondary Actor(s):</b>	N/A
<b>Description:</b>	Send notification to the seller when the buyer buys the item

<b>Preconditions:</b>	Item is available and the buy button is available to click
<b>Normal Flow of Events:</b>	User clicks “buy” button from the Product Page (detailed item page)
<b>Postconditions:</b>	<p>One notification is sent to the seller of the product, letting the seller know this buyer wants to buy the product and seller’s notification center has been updated.</p> <p>One notification is sent to the buyer of the product, showing the buyer placed order for the item and notification center has been updated. Buyer will stay in the Product Page and confirmation message will be shown.</p> <p>Waiting list for the item goes up by one.</p>
<b>Frequency of Use:</b>	High
<b>Alternative Flows:</b>	<p>User clicks on “buy” button. Buyer clicks “cancel” and comes back to the Product Page.</p> <p>User clicks on “buy” button. Buyer confirms the item. Buyer will see the message of confirmation where the buy button used to be.</p>
<b>Exceptions:</b>	<p>Another buyer buys it before the user and the product is not available anymore. BCEO gives a message “placed on to the waiting list” to the user.</p> <p>Seller deletes the product before the user buys it. BCEO gives “not available item” message to the user.</p>
<b>Assumptions:</b>	The item Product Page is shown and the user wants to buy this specific item
<b>Issues:</b>	TBD
<b>Source:</b>	TBD
<b>Includes:</b>	TBD
<b>Associated Requirements:</b>	TBD

**Table 13** Use Case Details - LEAVE-GRP: Leave Group

<b>Use Case ID:</b> LEAVE-GRP	<b>Use Case Name:</b> Leave Group
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<b>Primary Actor(s):</b>	Authorized member of the group
<b>Secondary Actor(s):</b>	N/A
<b>Description:</b>	Remove group from the user's group list and delete the user from authorized member list of the group.
<b>Preconditions:</b>	User is already the member of the group
<b>Normal Flow of Events:</b>	User does long-tab of group name button on the Group List and clicks the "x" button showing to leave the group
<b>Postconditions:</b>	User will be removed from the Group's authorized member list, group will be deleted from user's group list and the group name is not shown on user's Group List Page anymore.
<b>Frequency of Use:</b>	Low
<b>Alternative Flows:</b>	<p>User clicks anywhere outside of the group name button. "x" button to leave group will get disappeared. User stays in the group.</p> <p>User clicks "x" button. Group name will disappear from the screen..</p>
<b>Exceptions:</b>	N/A
<b>Assumptions:</b>	User is already inside the group
<b>Issues:</b>	TBD
<b>Source:</b>	TBD
<b>Includes:</b>	TBD
<b>Associated Requirements:</b>	TBD

**Table 14** Use Case Details – REC-AUD: Record Audio Message

<b>Use Case ID:</b> REC-AUD	<b>Use Case Name:</b> Record Audio Message
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<b>Primary Actor(s):</b>	Authorized member of the group
<b>Secondary Actor(s):</b>	N/A
<b>Description:</b>	Record a welcome message for other customers when they enter the market
<b>Preconditions:</b>	User is already the member of the group
<b>Normal Flow of Events:</b>	User enter the MyPage, then press the record button. After recording, press top button.
<b>Postconditions:</b>	Every time a customer enter the seller's market, the message will play automatically
<b>Frequency of Use:</b>	Low
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Assumptions:</b>	User is already inside the group
<b>Issues:</b>	TBD
<b>Source:</b>	TBD
<b>Includes:</b>	TBD
<b>Associated Requirements:</b>	TBD

**Table 15** Use Case Details – PLA-MESG: Play Pre-record Message

<b>Use Case ID:</b> PLA-MESG	<b>Use Case Name:</b> Play Pre-record Message
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<b>Primary Actor(s):</b>	Authorized member of the group
<b>Secondary Actor(s):</b>	N/A
<b>Description:</b>	Play the welcome message pre-recorded by the seller
<b>Preconditions:</b>	Seller has record the sound in advance
<b>Normal Flow of Events:</b>	When entering the Market Page, a pre-recorded message will play automatically
<b>Postconditions:</b>	N/A
<b>Frequency of Use:</b>	Medium
<b>Alternative Flows:</b>	N/A
<b>Exceptions:</b>	N/A
<b>Assumptions:</b>	User is already inside the group
<b>Issues:</b>	TBD
<b>Source:</b>	TBD
<b>Includes:</b>	TBD
<b>Associated Requirements:</b>	TBD

**Table 16** Use Case Details – TAKE-PHOTO: Take Photo for Product

<b>Use Case ID:</b> TAKE-PHOTO	<b>Use Case Name:</b> Take Photo for Product
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<b>Primary Actor(s):</b>	Authorized member of the group
<b>Secondary Actor(s):</b>	N/A
<b>Description:</b>	When
<b>Preconditions:</b>	User is already the member of the group
<b>Normal Flow of Events:</b>	When inside Sell Page, open up the camera and take a picture.
<b>Postconditions:</b>	User could choose the next picture from the image scroll, and then upload it to remote and local server.
<b>Frequency of Use:</b>	HIGH
<b>Alternative Flows:</b>	User could quit the camera function or retake it anytime.
<b>Exceptions:</b>	N/A
<b>Assumptions:</b>	N/A
<b>Issues:</b>	TBD
<b>Source:</b>	TBD
<b>Includes:</b>	TBD
<b>Associated Requirements:</b>	TBD