

# **Use case for MobileMedia Application Release 5**

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Color Code:

Red: Change in usecases  
Blue: New usecase

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**MobileMedia Release 5:** This release includes SMS transfer to sending and receiving photos

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**Usecase: Receive Photo**

**Actor:** Mobile Phone (system) and User

**Description:** The device can receive an image sent from sending device by SMS transfer

**Precondition:**

Application must be launched

An album must be available on the device to store the image

**Trigger:** User chooses to accept the image sent by other device

**Scenario:**

1. (receive) The image received through SMS on the mobile device
2. (process) The image is processed to extract information (type, etc.)
3. (path) User provides the path of the target album where the image has to be stored
4. (label) The user assigns a name to the stored image
5. (saved) The image is saved in the target album with a label assigned by user.
6. (update) Once the image is saved in the album the image list is updated.

**Extensions:**

4a. (label) The label already exists:

4a1. options to either replace the existing image

4a2. save the image with other name

5a. (saved) Problem occurs with storing image in specified album and/or device memory

6a. (update) The device is unable to update the modified information

**Includes:** *View Content Usecase*

**Usecase: Send Photo**

**Actor:** Mobile Phone (system) and User

**Description:** The user can send image from one device to another device by SMS transfer

**Precondition:**

Application must be launched

There must be a image available and stored on phone's images folder

**Trigger:** User chooses to send the image from one device to another by SMS transfer

**Scenario:**

1. (select) User selects an image from the album
2. (insert) The sender provides the device with the number of target device
3. (sends) On pressing send, the image gets transferred to the target device

**Extensions:**

1a. (null data) There are no images available on the device

2a. (insert) Invalid Phone Number

3a. (Send) Failure in transferring the image

**Usecase: Set Favourite**

**Actor:** Mobile Phone (system) and User

**Description:** The user can select an image as favourite in an album

**Precondition:**

Application must be launched

A few images must be available in album or device memory

**Trigger:** User chooses to set image as favourite

**Scenario:**

1. (favourite) User selects a image from the list of image to be set as favourite

**Extensions:**

1a. (null data) There are no images available in the album

**Usecase: View Favourites**

**Actor:** Mobile Phone (system) and User

**Description:** The user can view the favourite images.

**Precondition:**

- Application must be launched
- The album must exist in the device memory
- The album must contain images

**Trigger:** User chooses to view the favourite images

**Scenario:**

1. (view) The user selects the option to view favourite images that have been set as favourite
2. (view) The device lists images in order of most favourite image being at the top

**Extensions:**

1a. (null data) There are no images available on the mobile phone

**Extend:** *View content Usecase*

**Usecase: Copy Photo**

**Actor:** Mobile Phone (system) and User

**Description:** The user can copy photos from one album to another album

**Precondition:**

- Application must be launched
- A image must be available in an album
- A second album (the target) must be available

**Trigger:** User chooses to copy the image from an album

**Scenario:**

1. (copy) User selects the image to be copied from an album
2. (path) User provides the path of the target album where the image has to be copied
3. (label) User provides a new label to the copied image
4. (saved) the image has been copied to another album
5. (update) The list is updated

**Extensions:**

2a. (path) Invalid Information:

- 2a1. Incorrect path is provided
- 2a2. The album at the specified path is inaccessible

3a. (label) The label already exists:

- 3a1. options to either replace the existing image
- 3a2. save the image with other name

4a. (saved) Problem occurs with storing copied image in specified album and/or device

5a. (update) Problem with updating the modified information

**Include:** *Provide label Usecase*

**Usecase: Count Photo**

**Actor:** Mobile Phone (system) and User

**Description:** The device keeps count of number of time an image has been viewed

**Precondition:**

- Application must be launched
- A few images or audio files must be available

**Trigger:** When a user views an image

**Scenario:**

1. (count image) When an image is viewed the device counts up the number of times an image has been viewed.

2. (update) The information for the image is update in the device memory

**Extension:**

1a. (update) The device is unable to updated the modified information

**Extends:** *View Content Usecase*

**Usecase: Sort Photo**

**Actor:** Mobile Phone (system) and User

**Description:** The device sorts the image based on the number of times an image has been viewed

**Precondition:**

Application must be launched

A few images must be available

**Trigger:** User chooses to sort image based on the number of times it has been viewed or sort audio files according to the number of times they have been played.

**Scenario:**

1. (sort) The device populates the list of images sorted by the highest viewing frequency

2. (update) The information for the image is update in the device memory

**Extension:**

1a. (update) The list is updated with the modified information

**Includes:** *Count Photo Usecase*

**Usecase: Edit Label**

**Actor:** Mobile Phone (system) and User

**Description:** The user can edit the existing label of image and album

**Precondition:**

Application must be launched

Label for image or album must already exist

User must have selected the option to edit an image label

**Trigger:** User chooses to edit the image label

**Scenario:**

1. (edit) The users enters the new label for image

2. (save) The changed label is saved in the memory of the device

3. (update) The list is updated with the modified information

**Extensions:**

1a. (label) The label already exists:

1a1. options to either replace the existing image

1a2. save image with other name

2a. (update) The device is unable to update the modified information

**Extends:** *Provide Label Usecase*

**Usecase: Add Photo**

**Actor:** Mobile Phone (system) and User

**Description:** The user can store (add) an image in an album available in the device

**Precondition:**

Application must be launched;

There must be an album available.

**Trigger:** User chooses to add an image

**Scenario:**

1. (select) The user selects an album to store the image.

3. (add) The user selects the option to add image.

4. (path) User provides the path from where the image is uploaded.

5. (label) User assigns a label to the image.
6. (saved) The new image is stored in the selected album.
7. (update) The list is updated with the modified information

**Extensions:**

- 3a. (path) Invalid Information:
  - 3a1. Incorrect path is provided
  - 3a2. The image at the specified path is inaccessible
- 4a. (label) The label already exists:
  - 4a1. options to either replace the existing image
  - 4a2. save the image with other name
- 5a. (saved) Problem occurs with storing image in specified album and/or device memory
- 6a. (update) Unable to update the modified information

**Includes:** *Provide Label Usecase*

**Usecase: Delete Photo**

**Actor:** Mobile Phone (system) and User

**Description:** The user can delete image from an album in the device

**Precondition:**

- Application must be launched,
- An image must exist in an album.

**Trigger:** User chooses to delete image

**Scenario:**

1. (select) The user selects an album from which images has to be removed
2. (listing) The device populates the list of available image in an album
3. (delete) The user selects the option to remove the image. The image is removed from the device memory
4. (update) The list is updated

**Extensions:**

- 1a. (null data) There are no images or audio files available on the device memory
- 3a. (delete) Problem occurs with deleting image from album and/or device memory
- 4a. (update) Problem with updating the modified information

**Usecase: View Content**

**Actor:** Mobile Phone (system) and User

**Description:** The user can view a image or album content on the device memory

**Precondition:**

- Application must be launched
- An image must exist on an album

**Trigger:** User chooses to view an album or image in an album

**Scenario:**

1. (select)The user selects an album
2. (listing) The device populates the list of available images in an album
3. (view) User views the content of the album

**Extensions:**

- 1a. (null data) There are no images available on the device memory
- 3b. (view) View an image:
  - 3a1. User selects an image from the list of images in an album.
  - 3a2. Image is displayed on the screen
- 3c. (view) Problem occurs with retrieving
  - 3c1. Problem in retrieving albums on the device
  - 3c2. Problem in retrieving the images in an album

**Usecase: Add Album**

**Actor:** Mobile Phone (system) and User

**Description:** The user can store (add) an album on the device

**Precondition:** Application must be launched;

**Trigger:** User chooses to add an album

**Scenario:**

1. (add) The user selects the option to add an album.
2. (label) User provides label to the new created album
3. (saved) A new album is available on device memory
4. (update) The list is updated

**Extensions:**

2a. (label) The label already exists:

2a1. options to either replace the existing album

2a2. save album with other name

3a.(saved) Problem occurs with generating an album in device memory

4a.(update) Problem with updating the modified information

**Includes:** *Provide Label Usecase*

**Extends:** *Add Photo Usecase*

### **Usecase: Delete Album**

**Actor:** Mobile Phone (system) and User

**Description:** The user can delete an album from the mobile phone

**Precondition:**

Application must be launched;

The album must exist on the mobile phone,

**Trigger:** User chooses to delete Album

**Scenario:**

1. (listing) The albums stored in the mobile phone memory are listed down.
2. (delete) The user selects the option to delete the selected album
3. (delete) Album removed from the mobile phone
4. (update) The list is updated

**Extensions:**

1a. (null data) There is no album available on the device

1b. (listing) Problem with listing down the albums

3a. (delete) Problem occurs while deleting the album

4a. (update) Problem with updating the modified information

**Extends:** *Delete Photo Usecase*

### **Usecase: Provide Label**

**Actor:** Mobile Phone (system) and User

**Description:** The user provides label for the image or an album

**Precondition:**

Application must be launched

**Trigger:** When user has added or copied a image to the album. Or received an image sent by another device via SMS transfer.

**Scenario:**

1. (label) The users provides a name for a image or an album

**Extensions:**

1a. (label) The label already exists:

1a1. options to either replace the existing image with the new label

1a2. save image with another name or save the album with another name

1b. (update) Problem with updating the modified information