

# **Use case for MobileMedia Application Release 6**

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Color Code:

Red: Change in usecases  
Blue: New usecase

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**MobileMedia Release 6:** This release alternative feature music. With music same options are associated as with photo, i.e., sort, favourite, and copy.

Note: In this release the existing optional usecases (sort, count, favourite, copy) have been extended for both photo and music. In this release Media means image and audio.

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**Usecase:** Play Music

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

**Description:** The user plays the audio file available

**Precondition:**

Application must be launched

An audio file must be available

**Trigger:** User chooses the option to listen to the audio file

**Scenario:**

1. (select) The user selects a music album
2. (listing) The device populates the available audio files in an album
3. (play) The user selects one of the audio file to be played that device reterives from memory

**Extensions:**

1a. (null data) Audio file is unavailable

**Usecase:** Music control

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

**Description:** The user can stop and/or pause a playing audio file and re-play it from the point where the user stopped or paused the audio.

**Precondition:**

Application must be launched

The audio file must be selected or is being played for pause and stop controls to be functional.

**Trigger:** User selects one of the control options (play, stop, or pause)

**Scenario:**

1. (play) If the video file is stopped or paused the user can selects the option to play the video.

**Extensions:**

1a. (pause) If the audio file is playing the user can pause it by pressing the button

1b. (stop) If the audio file is playing the user can stop it by pressing the button

**Extends:** *Play Music Usecase*

**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 updated 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:**

1. Application must be launched
2. A few images or audio files must be available in album or device memory

**Trigger:** User chooses to set image or audio file as favourite

**Scenario:**

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

**Extensions:**

- 1a. (null data) There are no images or audio file 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 and audio files

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

**Scenario:**

1. (view) The user selects the option to view list of favourite images and audio files that have been set as favourite
2. (view) The device list down favourite images or audio file

**Extensions:**

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

***Extend:*** *View content Usecase*

**Usecase: Copy Media**

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

**Description:** The user can copy images or audio file from one album to another album

**Precondition:**

- Application must be launched
- An image and audio file 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 or audio file to be copied from an album
2. (path) User provides the path of the target album where the media has to be copied
3. (label) User provides a new label to the copied media
4. (saved) The media 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 Media**

**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. (count audio) When an audio file is played the device counts up the number of times a audio file has been played.

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

**Extends:** *View Content Usecase*

**Usecase: Sort Media**

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

**Description:** The device sorts the media based on the number of times an image has been viewed and an audio file has been played.

**Precondition:**

- Application must be launched
- A few images or audio files 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. (sort audio) Sort the audio file based on the number of times it has been played.
- 1b. (update) The device is unable to update the modified information

**Includes:** *Count Media 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 a media label

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

**Scenario:**

1. (edit) The users enters the new label for media
2. (save) Save the changed label
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 Media**

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

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

**Precondition:**

- Application must be launched;
- There must be an album available.

**Trigger:** User chooses to add media

**Scenario:**

1. (select) The user selects an album to store the media.
2. (add) The user selects the option to add media.
3. (path) User provides the path from where the media is uploaded.
4. (label) User assigns a label to the media.
5. (saved) The new media is stored in the selected album.
6. (update) The list is updated with the modified information

**Extensions:**

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

**Includes:** *Provide Label Usecase*

**Usecase: Delete Media**

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

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

**Precondition:**

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

**Trigger:** User chooses to delete media

**Scenario:**

1. (select) The user selects an album from which images or audio file has to be removed
2. (listing) The device populates the list of available media in an album
3. (delete) The user selects the option to remove the media. The media 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 media 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
- A 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 *Media* 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 *Media* Usecase

### **Usecase: Provide Label**

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

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

**Precondition:**

Application must be launched

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

**Scenario:**

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

**Extensions:**

1a. (label) The label already exists:

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

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

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