

Team Empiricist: Software Engineering

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G.1 Analysis: Use Cases and UML Overview

Playlists

1.) Create Playlist

Use Case	Create Playlist
Participating Actor:	Participant
Entry Condition:	None
Exit Condition:	A playlist is successfully created
Flow of Events:	<ol style="list-style-type: none">1. User requests to create a playlist2. Empiricist Video Manager creates a playlist and refreshes the display.

2.) Show Existing Playlists

Use Case	Show Playlist
Participating Actor:	Participant
Entry Condition:	At least one playlist has been created.
Exit Condition:	All existing playlists are shown to the participant
Flow of Events:	<ol style="list-style-type: none">1. The participant requests to show playlists.2. Empiricist Video Manager shows all existing playlists to the participant and refreshes the display.

3.) Delete Playlist

Use Case	Delete Playlist
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Participating Actor:	Participant
Entry Condition:	At least one playlist has been created and a playlist has been selected.
Exit Condition:	The playlist(s) has been deleted and it is no longer visible.
Flow of Events:	<ol style="list-style-type: none"> 1.) Participant requests to delete a playlist. 2.) Empiricist Video Manager deletes the playlist and refreshes the display.

4.) Remove Segment from Playlist

Use Case	Remove Segment
Participating Actor:	Participant
Entry Condition:	At least one segment has been created within a playlist and the segment is selected.
Exit Condition:	The desired segment has been removed from the playlist and is no longer visible.
Flow of Events:	<ol style="list-style-type: none"> 1.) The participant requests to remove a segment. 2.) Empiricist Video Manager removes the desired segment from the playlist and refreshes the display.

5.) Show Ordered List of Segments within Playlist

Use Case:	Show Ordered List of Segments in Playlist
Participating Actor(s):	Participant
Entry Condition:	At least one playlist containing at least one segment exists in the library.
Exit Condition:	The segments within a playlist are displayed in their appropriate order

Flow of Events:	<ol style="list-style-type: none"> 1.) The participant requests to see an ordered list of segments in a playlist. 2.) Empiricist Video Manager shows the segment within a playlist in order, and updates the display.
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6.) Append Local Segment

Use Case	Append Local Segment
Participating Actor:	Participant
Entry Condition:	Playlist must be selected, local segment must be identified
Exit Condition:	Segment has been appended to playlist
Flow of Events:	<ol style="list-style-type: none"> 1. The participant requests to append a local segment to the desired playlist. 2. Empiricist Video Manager appends the local segment to the desired playlist and refreshes the display.

7.) Append Remote Segment

Use Case	Append Remote Segment
Participating Actors:	Participant
Entry Condition:	Playlist must be selected and remote segment must be identified
Exit Condition:	A remote segment has been appended to a playlist
Flow of Events:	<ol style="list-style-type: none"> 1. The participant requests to append a remote segment to a desired playlist.

	2. Empiricist Video Manager appends a remote segment to a playlist and refreshes the display
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Segments

8.) Upload Segment

Use Case:	Upload Segment to Library
Participating Actor(s):	Participant
Entry Conditions:	None
Exit Condition:	A segment has been added to library
Flow of Events:	<ol style="list-style-type: none"> 1.) The participant requests to upload a segment to the library. 2.) Empiricist Video Manager uploads the segment to the library and refreshes the display.

9.) Delete Segment

Use Case	Delete Segment
Participating Actor	Participant
Entry Condition	A segment must exist and must be selected
Exit Condition	The selected segment has been deleted

Flow of Events	<ol style="list-style-type: none"> 1.) The participant requests to delete a segment 2.) Empiricist Video Manager deletes the segment and refreshes the display.
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10.) Search Segment

Use Case:	Search Segment
Participating Actor	Participant
Entry Condition:	There must exist at least one segment and any input must be present
Exit Condition	The segments related to the search criteria are displayed
Flow of Events	<ol style="list-style-type: none"> 1. The participant requests to search for certain segments 2. Empiricist Video Manager displays the segments related to the search criteria, and refreshes the display.

11.) Show Local Segment

Use Case	Show Local Segment
Participating Actor:	Participant
Entry Condition:	At least one local segment exists.
Exit Condition:	All local segments are displayed
Flow of Events:	<ol style="list-style-type: none"> 1. The participant requests to view local segments . 2. Empiricist Video Manager displays all local segments and refreshes the display.

12.) Show Remote Segment

Use Case	Show Remote Segments
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Participating Actor:	Participant
Entry Condition:	At least one remote segment exists.
Exit Condition:	All remote segments are displayed.
Flow of Events:	<ol style="list-style-type: none"> 1.) The participant requests to view remote segments. 2.) Empiricist Video Manager displays all remote segments and refreshes the display.

13.) Publish Playlist

Use Case	Publish Playlist
Participating Actor:	Participant
Entry Condition:	At least one playlist with one segment has been created and administrator has registered at least one third-party site.
Exit Condition:	The playlist is published.
Flow of Events:	<ol style="list-style-type: none"> 1. The participant requests to publish the playlist. 2. Empiricist Video Manager publishes the playlist and refreshes the display.

Administrator

14.) Mark Segment (No longer remotely available)

Use Case Name:	Mark Segment
Participating Actor(s)	Administrator

Entry Condition:	Local video segment is unmarked (playlist is created) and must be remotely visible
Exit Condition:	Local video segment has been marked and is no longer remotely visible
Flow of Events:	<ol style="list-style-type: none"> 1.) The administrator requests to mark a local video segment 2.) Empiricist Video Manager makes the local video segment no longer remotely visible and refreshes display

15.) Unmark Segment

Use Case Name:	Unmark Segment
Participating Actor(s):	Administrator
Entry Condition:	Local video segment must exist in a playlist
Exit Condition:	Local video is unmarked and visible remotely
Flow of Events:	<ol style="list-style-type: none"> 1.) The administrator requests to unmark a local video segment 2.) Empiricist Video Manager makes the local video segment remotely visible and refreshes display

16.) Register T-P Segments

Use Case Name:	Register Third-Party Sites
Participating Actor(s):	Administrator
Entry Condition:	At least one Third-Party url has been given.
Exit Condition:	The third-party site(s) has been registered and

	local video segments are available remotely to third-party sites.
Flow of Events:	<ol style="list-style-type: none"> 1.) The administrator requests to register a third-party site. 2.) Empiricist Video Manager registers the third-party site, makes local segments available remotely and refreshes the display.

UML DIAGRAM

Entities:

- Top-Level Model
- Library
- Playlist
- Segment

Boundaries:

- App
- Welcome
- Participant
- Admin
- Welcome page
- Participant Display Page (Include Panel with library containing playlists and segments)
 - Has buttons for all participant use cases
 - Create Playlist
 - Show playlists
 - Toggle Playlist
 - Show Segments in Playlist (Hyperlink)

- Show segments (Drop-down)
 - Local
 - Remote
 - Upload Segment
 - Toggle Segment
 - Append
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- Administrator Display Page (Include Panel with segments)
 - Mark button
 - Unmark button
 - Register button

Controllers:

- Segment Controller
 - Add Remote Segments to library
 - Add Local Segments to library
 - Remove local Segments from library
- Append Segment Controller
 - Remote
 - Local
- Playlists Controller
 - Create
 - Delete
- Search Segment Controller
- Publish Playlist Controller (Links to AWS)
- Admin Segment Controller
 - Unmark
 - Mark
- Register TP Segment Controller
- Show controller
 - Show all playlists
 - Show all local segments
 - Show all remote segments
 - Show ordered list of segments in playlist