# CatWave System - Use Case Descriptions

## UC1: Login

\*\*Title\*\*: Login

\*\*Identifier\*\*: UC1

\*\*User Story\*\*: As a user, I want to log in to CatWave so that I can access my music and playlists.

\*\*Input/Output\*\*:  
- Input: Username, Password  
- Output: Homepage (success) or Error message (fail)

\*\*Preconditions\*\*:  
User has an existing account.

\*\*Basic Course\*\*:

|  |  |
| --- | --- |
| Actor (User) | System |
| 1. Open the login page | 1.1 Display the login page |
| 2. Enter username and password |  |
| 3. Submit login form | 3.1 Check user credentials 3.2 If success, redirect to homepage 3.3 Else, stay at login page and show error |

\*\*Alternative Course\*\*:  
If user inputs wrong credentials, the system displays 'Invalid username/password.'

\*\*Postconditions\*\*:  
User is logged in if credentials are correct.

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## UC2: Register

\*\*Title\*\*: Register

\*\*Identifier\*\*: UC2

\*\*User Story\*\*: As a new user, I want to register a CatWave account so I can access features.

\*\*Input/Output\*\*:  
- Input: Username, Password, Email  
- Output: Account created or Error (duplicate username/email)

\*\*Preconditions\*\*:  
User not logged in.

\*\*Basic Course\*\*:

|  |  |
| --- | --- |
| Actor (User) | System |
| 1. Open registration page | 1.1 Display registration form |
| 2. Enter username, password, email |  |
| 3. Submit registration form | 3.1 Validate input 3.2 Check for duplicate username/email 3.3 If valid, create account 3.4 Else, show error |

\*\*Alternative Course\*\*:  
Duplicate username or invalid email format triggers error.

\*\*Postconditions\*\*:  
New account is created if registration succeeds.

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## UC3: Search Music

\*\*Title\*\*: Search Music

\*\*Identifier\*\*: UC3

\*\*User Story\*\*: As a user, I want to search for songs, albums, or playlists.

\*\*Input/Output\*\*:  
- Input: Search keyword  
- Output: List of matching results

\*\*Preconditions\*\*:  
User logged in.

\*\*Basic Course\*\*:

|  |  |
| --- | --- |
| Actor (User) | System |
| 1. Enter search keyword |  |
| 2. Submit search | 2.1 Search database for matching items 2.2 Display search results |

\*\*Alternative Course\*\*:  
If no match, system shows 'No results found.'

\*\*Postconditions\*\*:  
Display search results to the user.

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## UC4: Select Playlist/Album

\*\*Title\*\*: Select Playlist/Album

\*\*Identifier\*\*: UC4

\*\*User Story\*\*: As a user, I want to select a playlist or album to view its content.

\*\*Input/Output\*\*:  
- Input: Selected playlist/album  
- Output: List of songs in the playlist/album

\*\*Preconditions\*\*:  
Playlists and albums exist.

\*\*Basic Course\*\*:

|  |  |
| --- | --- |
| Actor (User) | System |
| 1. Click on a playlist or album | 1.1 Retrieve content 1.2 Display songs in the selected playlist/album |

\*\*Alternative Course\*\*:  
If playlist/album is not available, system shows error.

\*\*Postconditions\*\*:  
Playlist/album contents are shown.

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