

## **Project: MusicBox (an online MP3 music management system)**

### **Formal Use Case: Upload a Song**

**Primary Actor:** Artist

**Goal in Context:** Artist uploads a song to MusicBox ("MB").

**Scope:** MB

**Level:** User goal

**Stakeholders and Interests:**

Artist: Wants song uploaded to MB's database.

MB Server: Wants uploaded song files to be valid

**Precondition:** Artist is currently logged in to MB.

**Minimal Guarantees:** Artist will be able to add a song to MB's database.

**Success Guarantees:** The song will be displayed in MB's main song library to all users.

**Trigger:** Artist indicates desire to upload a song

**Main Success Scenario:**

1. MB prompts artist for song location, song title, and relevant song information.
2. Artist enters song location, song title and relevant song information
3. Artist indicates that he/she has finished entering song information and clicks Submit button.
4. MB verifies song location provided by Artist and song size.
5. MB sends song information to database to be added, using MySQL query to insert into Songs table.
6. MB obtains status of add from database.
7. MB informs Artist of upload status.
8. Artist goes to look at the song in the list of uploaded songs, and now they can tell their friends about the song and to check it out online at MB.

**Extensions:**

- 1a. User is not logged in or gave an invalid user name and password.
  - 1a1. User is sent back to the login page and prompted to give their user information.
- 1b. The upload song feature is currently unavailable.
  - 1b1. MB informs the Artist that the upload song feature is currently unavailable.
- 2a. Artist does not fill in relevant song information.
  - 2a1. MB ignores this and continues.
- 2b. User's internet connection goes down while trying to enter information.
  - 2b1. User has to power-cycle their cable modem and call their ISP to get it fixed.
- 4a. Song retrieved exceeds the maximum song size.
  - 4a1. MB informs Artist that song exceeds maximum song size.
  - 4a2. MB trims song to the maximum length and accepts it.
- 5a. Database is running slowly due to lots of connections.
  - 5a1. MB informs Artist of the delay and shows a progress bar.
  - 5a2. MB cancels music upload if the user doesn't want to wait any longer.

(What extensions, if any, are missing?)

- 2b. Song is a duplicate of an existing song.
  - 2b1. Artist is informed of the conflict and re-prompted to enter new unique information.
- 4b. Artist enters invalid song location

- 4b1. MB informs Artist of invalid location and prompts Artist to re-enter location before continuing.
- 5b. Database connection failure.
  - 5b1. Artist is shown an error message and advised to try again later, along with a Retry option.
  - 5b2. Artist retries their submission, returning to step 2, or ends the use case.