Spotify Group Recommendations

# Frontend

## User Interactions

### Accounts

It should be possible to create accounts in the spotify group recommendation system. Every user needs to be able to form groups and invite/add other users to the groups.

User specific data, like friends, groups, spotify connections (tokens) will be saved into a user database. This ensures a consistent reusability for every user.

Every user has access to all of his data and can delete the data at any time.

### Groups

A group consists of a minimum of 2 users and can have multiple group playlists. Every group member can create a playlist.

It is possible to leave a group. A group itself will only be deleted wenn every user has left the group. This ensures that you still have access to group data even if every other member has left the group

### Playlists

After a group member has created a playlist it will be linked to the spotify account of the creating user. Otherwise the app would need to create some form of an anonymous/group specific user in spotify.

In addition to the playlist being linked to the user, it will also be saved in the apps database. This prevents loss of data if the creating user decides to remove the playlist from inside of his spotify account.

### Use Cases

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| Goal | Create a user account |
| Primary Actor | Unregistered User |
| Scope | Frontend and User Db |
| Level | User |
| Precondition | Unregistered user is at registration screen/page |
| Success end | Useraccount is created |
| Failure end condition | Useraccount is not created |
| Trigger | Unregistered user accesses registration page |
| Main success scenario | 1. Unregistered User enters username and password 2. User is saved to Db 3. System informs user of creation 4. User is forwarded to Account Page 5. (Optional) User continues with setting up Spotify Access |
| Extensions (Error scenarios) | 1. Username already exists 2. Some form of connectivity issues with the backend |
| Variations (alternate scenarios) |  |

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| --- | --- |
| Goal | Get Users Spotify Access |
| Primary Actor | User |
| Scope | Frontend and Backend API |
| Level | User |
| Precondition | User is at account page |
| Success end | App has access to users spotify account through spotify API |
| Failure end condition | No access to spotify API |
| Trigger | User presses button ‘connect with spotify’ |
| Main success scenario | 1. User presses button 2. User provides needed data to get user specific information through the spotify API 3. Test request to spotify API returns some form of 200 Status |
| Extensions (Error scenarios) | 1. Data provided by user is wrong 2. Spotify API is unreachable 3. User has no spotify account |
| Variations (alternate scenarios) |  |

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| --- | --- |
| Goal | Creating a playlist |
| Primary Actor | User |
| Scope | Frontend and Backend API |
| Level | User |
| Precondition | User is on group page and starts playlist creation |
| Success end | A new group playlist is created |
| Failure end condition | No new playlist created |
| Trigger | User presses Button ‘Create Playlist’ |
| Main success scenario | 1. User starts playlist creation 2. User specifies playlist conditions    1. E.g. specific genre    2. Main variable that should be applied (song listen count etc) 3. User confirms selection 4. Playlist is returned as a link and saved to db |
| Extensions (Error scenarios) | 1. Not all necessary decisions on conditions have been made 2. Spotify not reachable 3. Db access unavailable |
| Variations (alternate scenarios) |  |

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| Goal | Deleting a playlist |
| Primary Actor | User |
| Scope | Frontend and Backend API |
| Level | User |
| Precondition | User is at group management site |
| Success end | Playlist is deleted on user account |
| Failure end condition | Playlist not deleted |
| Trigger | User presses ‘Delete Playlist’ |
| Main success scenario | 1. User decides to delete playlist that has been created from his spotify account 2. User Clicks ‘Delete’ Button 3. Playlist is removed from Users spotify account but not from the apps Db 4. UI informs about deletion |
| Extensions (Error scenarios) | 1. No Spotify Access 2. User has no created playlists |
| Variations (alternate scenarios) |  |

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| --- | --- |
| Goal | Leaving a group |
| Primary Actor | User |
| Scope | Frontend and Backend API |
| Level | User |
| Precondition | User is at group management site |
| Success end | User has left group |
| Failure end condition | User has not left group |
| Trigger | User presses ‘Leave Group’ button |
| Main success scenario | 1. User chooses to leave group 2. UI informs about success 3. Group is no longer accessible from users perspective |
| Extensions (Error scenarios) | 1. No backend API access 2. Other db error |
| Variations (alternate scenarios) | 1. User is the last member of the group    1. User gets removed from group    2. Group itself is deleted as well |

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| --- | --- |
| Goal | User satisfaction |
| Primary Actor | Users |
| Scope | Frontend + Backend / Voting interface |
| Level | User |
| Precondition | Users listened to the playlist |
| Success end | Users rated the experience with the playlist 3.5/5 or higher |
| Failure end condition | Rating is lower or non-existent |
| Trigger | Users used integrated voting system to vote on playlist |
| Main success scenario | 1. Users listened to music 2. Users vote 3. Rating is saved and displayed |
| Extensions (Error scenarios) | 1. Rating is made before playlist has been listenend too 2. Other users who didn’t have the music playing on their phone but participated in the group can’t vote |
| Variations (alternate scenarios) | No voting happened, no voting gets saved. |

## Communication to the backend

All logic will be handled by the backend API of the group recommendation app.