Christina

Name: Christina Cho
Age: 19
Location: Providence, RI
Job: Student

Personal Background:

Christina is a design student at RISD. She lives in an apartment in the middle of the city of Providence and commutes via public transportation everyday to class. She's into indie music and loves DJenerates and buys music from there all the time. She is always looking for new music to check out. Her friends tell her about new bands but she always has trouble remembering the names. Her roommate and her got a Tivo for their apartment and love the customizable content and she wishes there was something similar for music.

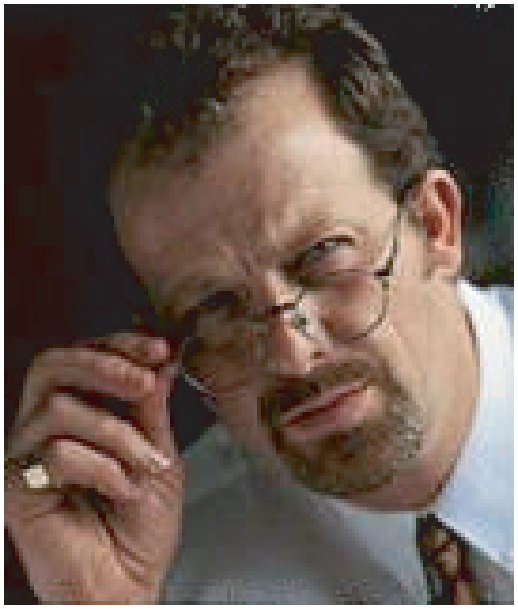
Goals:

- I want to be able to queue songs to download once the PDA finds an internet conne tion. That way when friends tell me about a song to check out I can put it in my queue list and it will download automatically when the internet is available.

- I want a program that integrates seamlessly with DJenerates and can work together with the site content to personalize my music experience, eg recommendations.

Technical skills:

Medium - but able to pick up on things after exploring a device or application



Richard

Name: Richard "Rich" Smith
Age: 42
Location: San Francisco, CA
Job: Senior Manager of Marketing

Personal Background:
Richard is 42 years old and works as a Senior Manager of Marketing. He is divorced with two children. He has been working at this company for eight years now and has enjoyed the benefits of hard work as it has allowed him to be promoted to his current position.
Recently, the company gave out new PocketPC's to many employees. Since then, Rich has seen quite a few of those young, hip, IT guys running around with headphones sticking out of their PDA's.

Goals:

- I want to listen to music on my PDA
- I want it to be easy to use because I still don't know how to work this thing completely! .
- I want it to be easy to install with not too much fuss. I don't want to have to call up the help desk to get me started -

Technical Abilities:

Novice - very little technical knowledge outside of word processing and email
Unfamiliar with the PocketPC interface

Drew

Name: Andrew “Drew” Harrington
Age: 28
Location: Boston, MA
Job: Outside Sales Representative for Initech

Personal Background:

Drew is 28 years old and works full time as an Outside Sales Representative. His job has him travelling quite often to visit customers to make new sales and solve any issues they have with products. He doesn’t particularly like traveling and makes sure to bring lots of music with him to calm his nerves during his trips.

Goals:

- I don’t want to carry around a bunch of devices while I’m runnning around airports.

- I want to have wireless capabilities because many airports have wireless communications now. This way I can download/stream new music which is useful because my PDA doesn’t have a huge amount of memory and I’m unable to plug into a computer while traveling.

- I want advanced listening features since I have a lot of time to use them sitting around in terminals.

Technical Abilities:

Been using his PDA for a long time and is quite familiar with its features.
Good overall computer skills

User Scenario: Christina

Search and Queue

Christina is just hanging out with her friends in between classes. One of her friends mentions how she just saw an "awesome" band the other night, known as the "Gray Bullets." From her friend's description of the music and concert, Christina is interested in getting some songs from that band. She doesn't want to just leave her friends to run to a computer and download some "Gray Bullets" songs, but she knows she will be unable to remember this band's name by the time she is able to get online. Luckily, she has her PDA with her and opens up her mp3 player. Christina searches "Gray Bullets" under 'Artist Name.' From the results that follow, she picks the one that is the band she wants. There are several songs to choose from to hear clips of or even download. Trusting her friend's taste, Christina decides that she wants to download a couple of their songs. As she picks songs to download, the mp3 player informs her that she is not connected to the internet and therefore the songs will be downloaded as soon as an internet connection is established. With that done, Christina does not have to keep on remembering that band's name and will receive her music as soon as she is connected to the internet.

Personalized Skins

The visual look of her mp3 player is not too interesting to Christina and she desires to change its look. She selects the option to change the skin of her player. Presented with the options of selecting from a number of already installed skins, going online to a larger database of skins, or creating own skin using a drawing program, Christina decides to see what this mp3 player already has to offer in its installed skins. There are various kinds to choose from, and with much happiness Christina finds a skin that fits right in with her style.

Recommendations

Christina has just recently downloaded and been listening to songs from "Gray Bullets." She really enjoys the music and while she is listening to one of the songs, she realizes that her mp3 player gives her recommendations of other artists that are similar to "Gray Bullets." With much excitement, Christina selects one of the artists and is taken to a page that provides descriptions of the artist, reviews and news, and their songs to download. Christina decides to go ahead and download one of their songs.

Equalizer

Christina has been listening to latest favorite band, "Blue Dogs," and feels as though she wants to have the bass more pronounced in the songs. She notices there is an equalizer setting and decides to toggle with that. Not knowing much about equalizers, Christina decides to pick one of the several equalizer settings, picking the "Hard Rock" setting to get that extra 'oomph' she wants from the song. The music does sound better,

but she feels as though she wants some more bass, though, so Christina decides to toggle with the EQ settings herself. Easy enough for her, all she has to do is increase or decrease frequencies using a very familiar set up of slide bars. She directly hears the results of her changes and finally ends up with a setting she prefers. Not wanting to lose this, Christina decides to save this setting under “Blue Dogs.”

User Scenarios: Drew

Search for a song from DJenerates

Drew hasn't been at his computer for a few days to add new songs to his PDA and he wants to listen to some other songs that he's bought from DJenerates. He's in an airport terminal so he has internet access. The program recognizes this and indicates that it's already connected to the DJenerates server. Drew enters the online music area which displays all the songs he has previous bought from DJenerates and also the search area. On the top is a text list of all the songs that he has already bought from DJenerates. He can click the checkmark next to any song and it will download to his PDA. He clicks a few songs to start them downloading. He also just remembered a song someone recommended to him so he goes to the Search box at the bottom of the screen and types in the song name. There is one match and he clicks on it and a sample of the song is played and a prompt asking him whether he wants to buy and download it comes up. He decides he wants to buy the song and clicks Buy. The song is downloaded it and he listens to the whole thing after it's done.

Sort by Genre, Artist, and Label

Drew has just transferred a bunch of music files onto his PDA and wants to sort them by genre so he can quickly see all of his rock songs altogether. He listens to many different genres and so he wants the genres to be separated so he can find things easier. He clicks on the Sort button and a menu expands giving him different sorting options, including Genre, Artist, Label, Alphabetical, and Date. Drew selects sort by Genre and goes through his list of songs. He sees a few at the end that were unsorted because they did not have genre information in them. He is able to drag those files up the list to where songs of the same genre are located. The program automatically sets the song genre to the song that is above it.

User Scenarios: Rich

Download/Install

It seems as if everyday Rich sees more and more of those young IT guys with headphones sticking out of their PDA's. Poking at things on the new Pocket PC given to everyone in his department, he found Windows Media Player. "Oh god," he thinks, "I can't even get that to work on my computer there's no way I'm going to figure that out." So he gives up on the idea until he notices a new feature at DJenerates – an MP3 player for Pocket PC's! Hesitant at first, he decides to see what happens. He clicks the download button and he saves the file and syncs it to his computer. It asks if he wants to install and he clicks yes. Soon enough, the familiar DJenerates logo pops onto the screen of his PDA.

It has a few setup questions for him: whether or not he has a DJenerates username and password, which he does, and he enters them. On his monitor, Rich notices the DJenerates page has changed to his personal page where it asks him if he would like to send his previously purchased songs to his PDA. He clicks yes and his list of 15 songs soon appears on the PDA screen.

Exploring navigation/help

Rich points the stylus at the play button and music begins playing from his PDA. A smile spreads across his face and he decides to tap on a couple of other things. Next track and previous track are easy enough to figure out. But what is that button and that button? Rich searches for a help menu of some kind. He sees a little question mark icon in the corner. A small pop-up informs him that he can right click any icon for help with that specific feature or click the question mark followed by the feature in question to obtain help. Rich clicks on a semi-mysterious looking button and a pop-up informs him that the button is the auto-equalizer on/off button. There is a "More…" button for more information, but Rich doesn't care to learn any more. After some poking and clicking Rich learns that he can change skins (whatever they are), create a play list, search for new songs, search his songs, shuffle and repeat songs, and a few other features.

Rich is happy with has he's discovered. He presses play and continues to listen to his PDA while walking across campus to a meeting with marketing. The meeting goes well, but he's no longer in the mood to listen to all of the songs on his play list. Instead, he just wants to search for that song…he knows it has the word "give" in the title, but can't remember the rest. Experimenting with input areas, he write in the word "give" in the search area. Immediately, all songs but the ones with "give" are eliminated. In fact, only two songs remain, "Give me all you've got, " the song Rich was searching for and also "Humble beginnings" by Georgia Givens. "Neat, it finds "give" anywhere in the name...good to know."

Task Analysis

Download/install

- Download program
- Install program
- Request for username and password
- Add songs to PDA
    - From Website
    - From previously purchased

Search Online

- Select 'Online Music'
- Establish Internet connection
- Enter input into Search input box
  OR
- Select from listings with all songs bought from DJenerates

- Select to search by:
    - Artist
    - Label
    - Song Title
- Select correct result from Results List
- Listen to streamed sample
- Choose to add song to download queue
- Transfer button to start downloaded songs

Search Player

- Select 'Search Music'
- Select to search by:
    - Artist
    - Label
    - Song Title
- Enter search query into Search input box
- Select from results

Sort

- Click Sort button
- Click on desired sort method
    - Artist
    - Song
    - Album
    - Genre
    - Label
    - Date
- Drag any leftover files to their proper genre

Queue a song

- Search for a song
- Select a song to download
- Cannot download if offline – the mp3 players prompts user if they want to download song when connected. Select 'Yes' to this prompting.

Change Skins

- Select 'Change Skins'
- Select change skins by:
    - Already Installed Skins
    - Skin Choices Online
- Select a skin from the offered choices
- Change Skin

Recommendations

- Select Song through whatever means desired
  THEN/OR
- Select 'Recommendations'
    - Find similar artists
      OR
    - Do a Search, same way as described above
    - Select Artist or Song
- Stream song
- Download song

Change Equalizer Settings

- Select 'Equalizer Settings' from Options or on Display
- Options to
    - Select custom and preset settings
    - Manual change of settings
    - Automatic EQ setting (in which the player automatically decides what EQ setting to use for each song played)
- If choose manual
    - Move slider bars for the several different frequencies displayed to change EQ setting
- Select 'Change EQ'

Help

- Find help with specific features/buttons
    - Pop-ups with basic information plus the option of getting more info
- Find help with tasks
- Search input results in all song titles/albums/artists containing searched word

Play

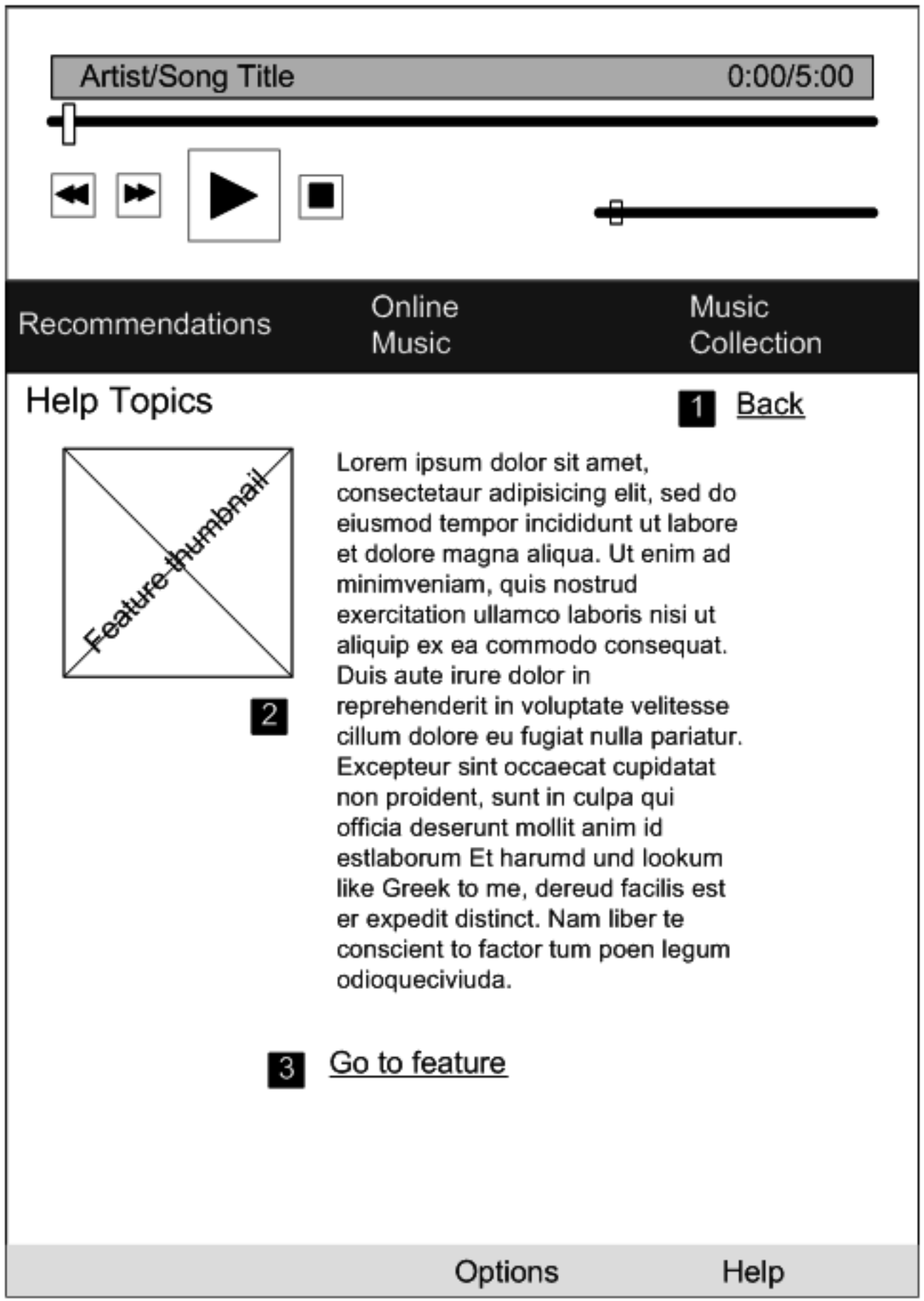
- Play

- Stop
- Forward track
- Fast forward
- Previous track
- Rewind
- Shuffle
- Repeat
- Volume
- Skip ahead (scroll bar)

Transfer

- Establish connection with other users
- Stream wirelessly music from other users

Help Topics 2

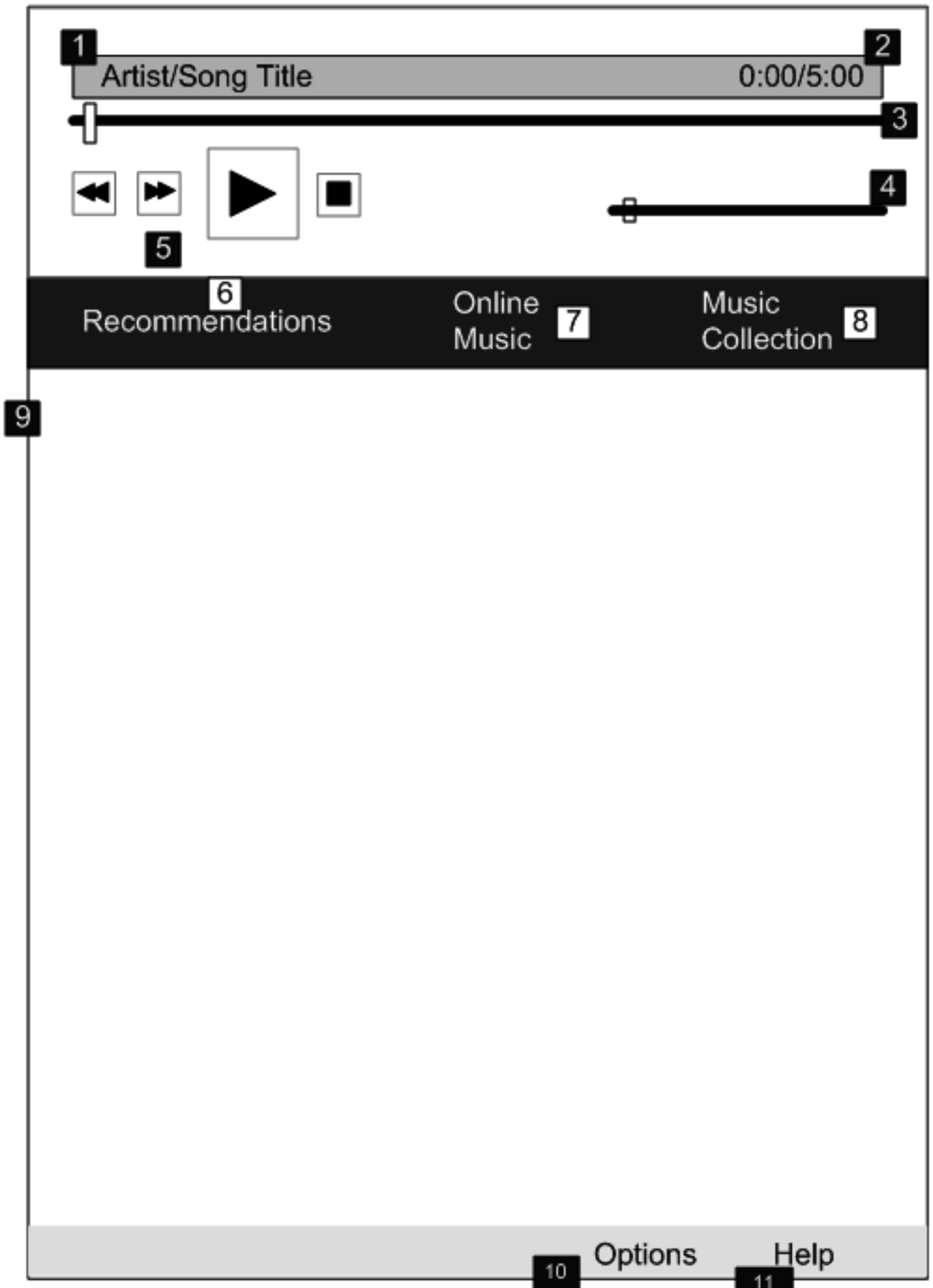


1 Takes users back to Help Topics1

2 Thumbnail picture of the topic is displayed if available as well as description of topic.

3 If available, links to the topic for use by the user

Initial Display



The components in this display are seen at all times throughout the device

1 Display of Artist and Song Title

2 Display of how much of music has played out of how long the song is

3 **Scroll** - Displays visually where the music is currently at in time. User can manipulate by moving the scroll bar to wherever user wishes. The song will then play where the user stops the scroll bar.

4 **Volume Control** - User can directly manipulate position of scroll bar to affect volume

5 **Playback Controls** - Rewind/Go-to-Last-Track, Fastforward/ Go-To-Next-Track, play/pause, and stop

6 Link to **Recommendations** option/screen

7 Link to **Online Music** option/screen

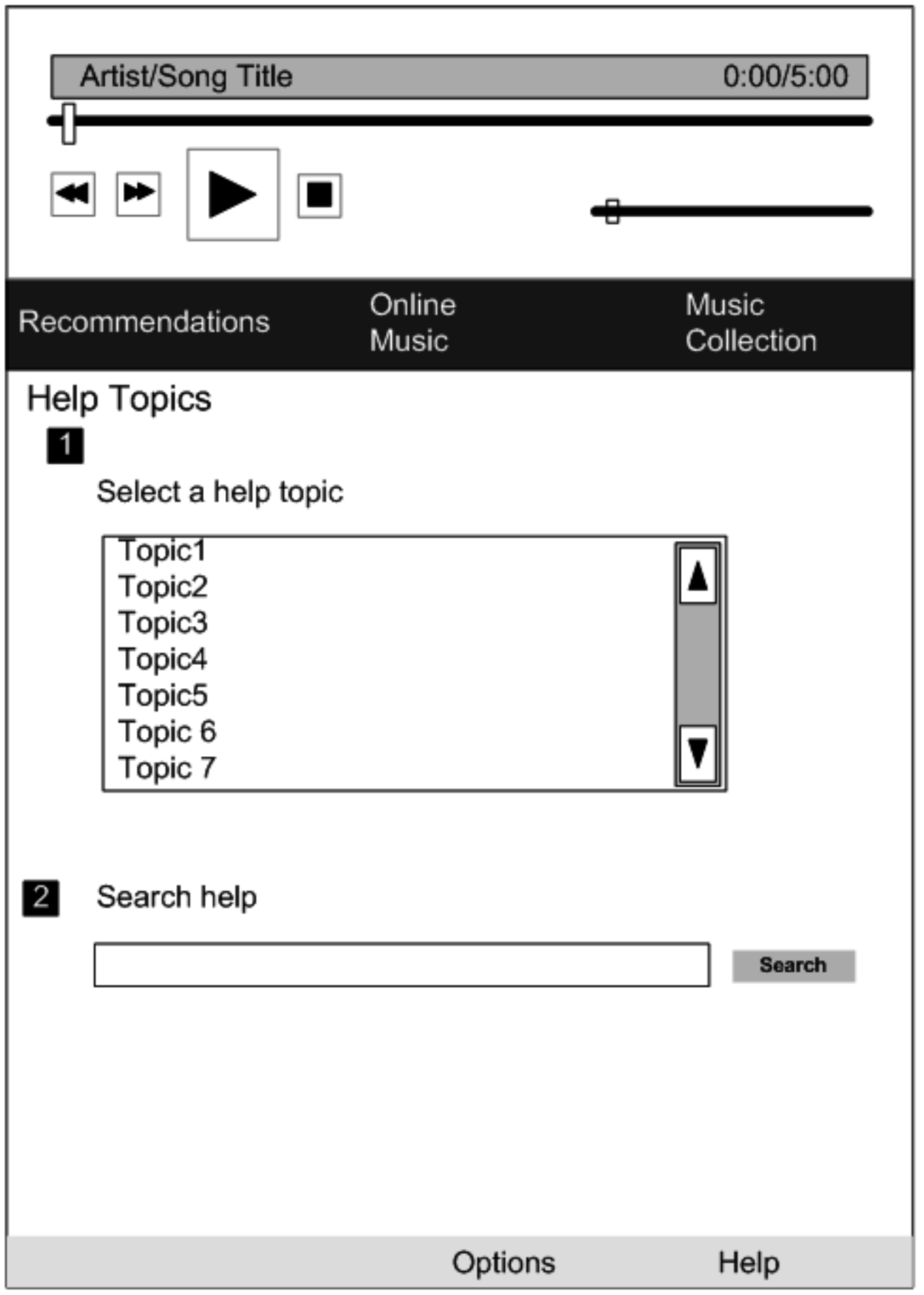
8 Link to **Music Collection** option/screen

9 This area is a dynamic screen that changes depending on user input. When the MP3 player is first opened, it displays user's music collection

10 Opens option menu that pops up, as seen in options wireframe

11 Opens help menu that pops up, as seen in help wireframe

Help Topics 1

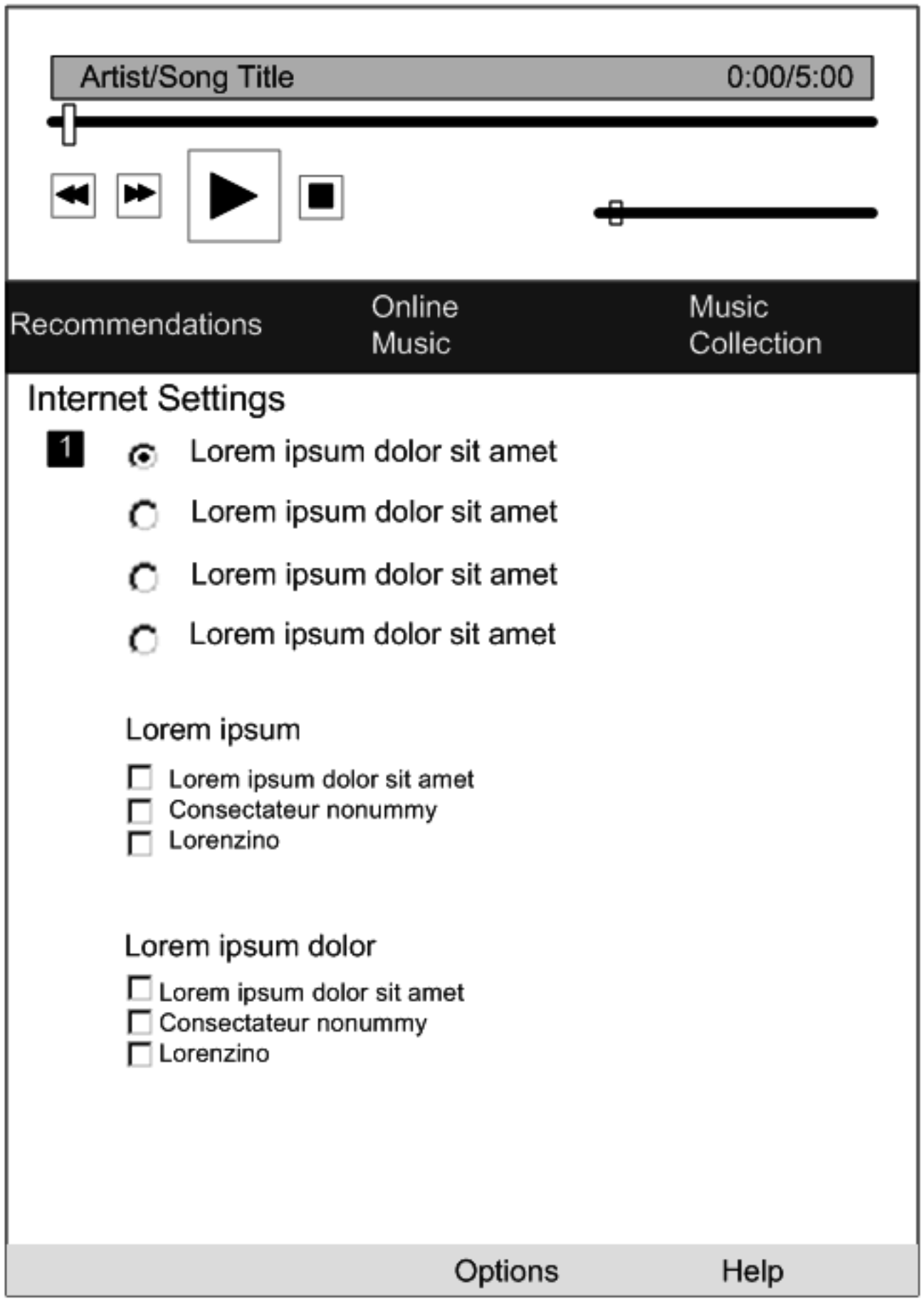


1 Users can select from a list of help topics

2 Users can search help for a word or phrase

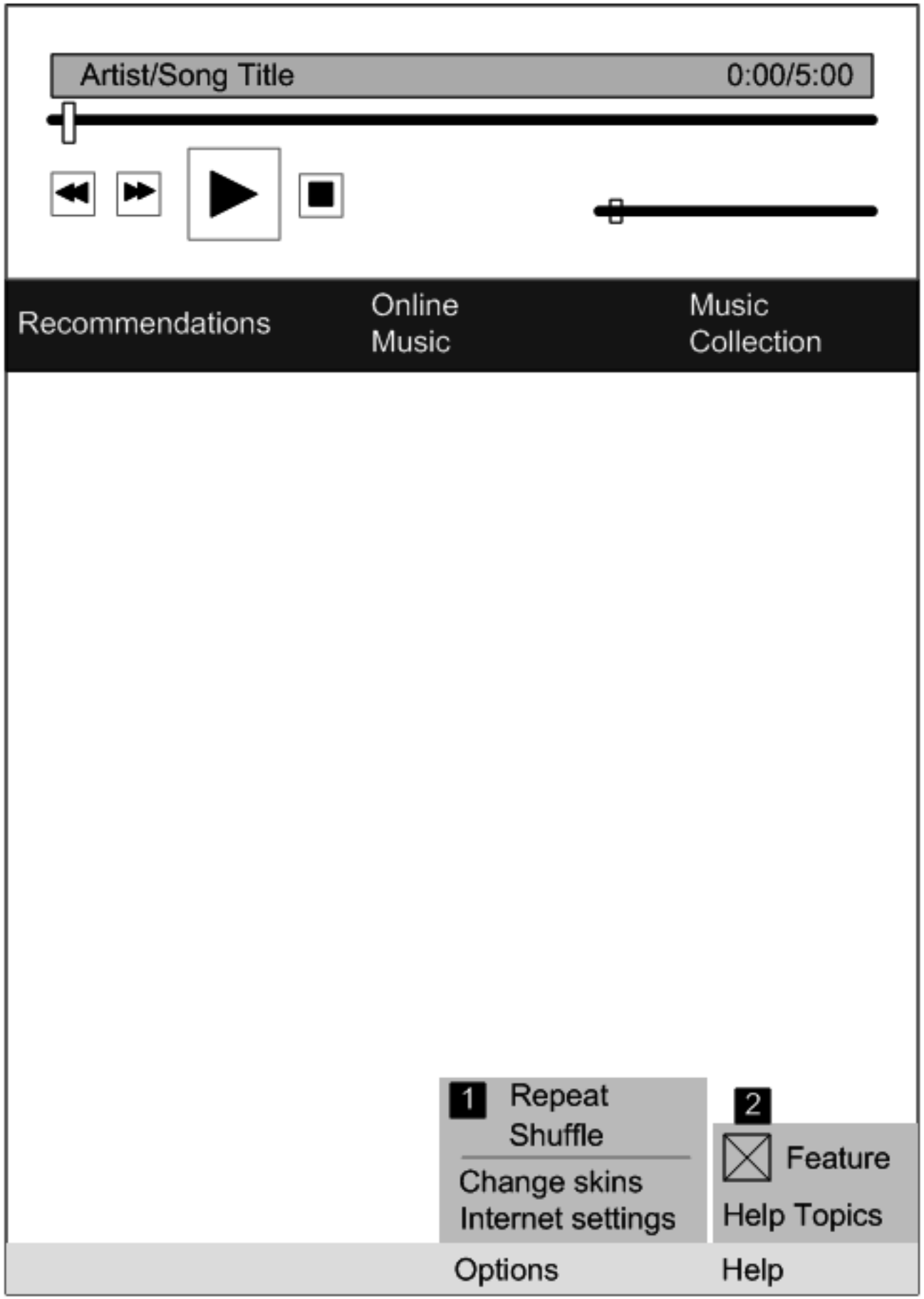
3 Send button sends user to Help Topics2

Internet Settings



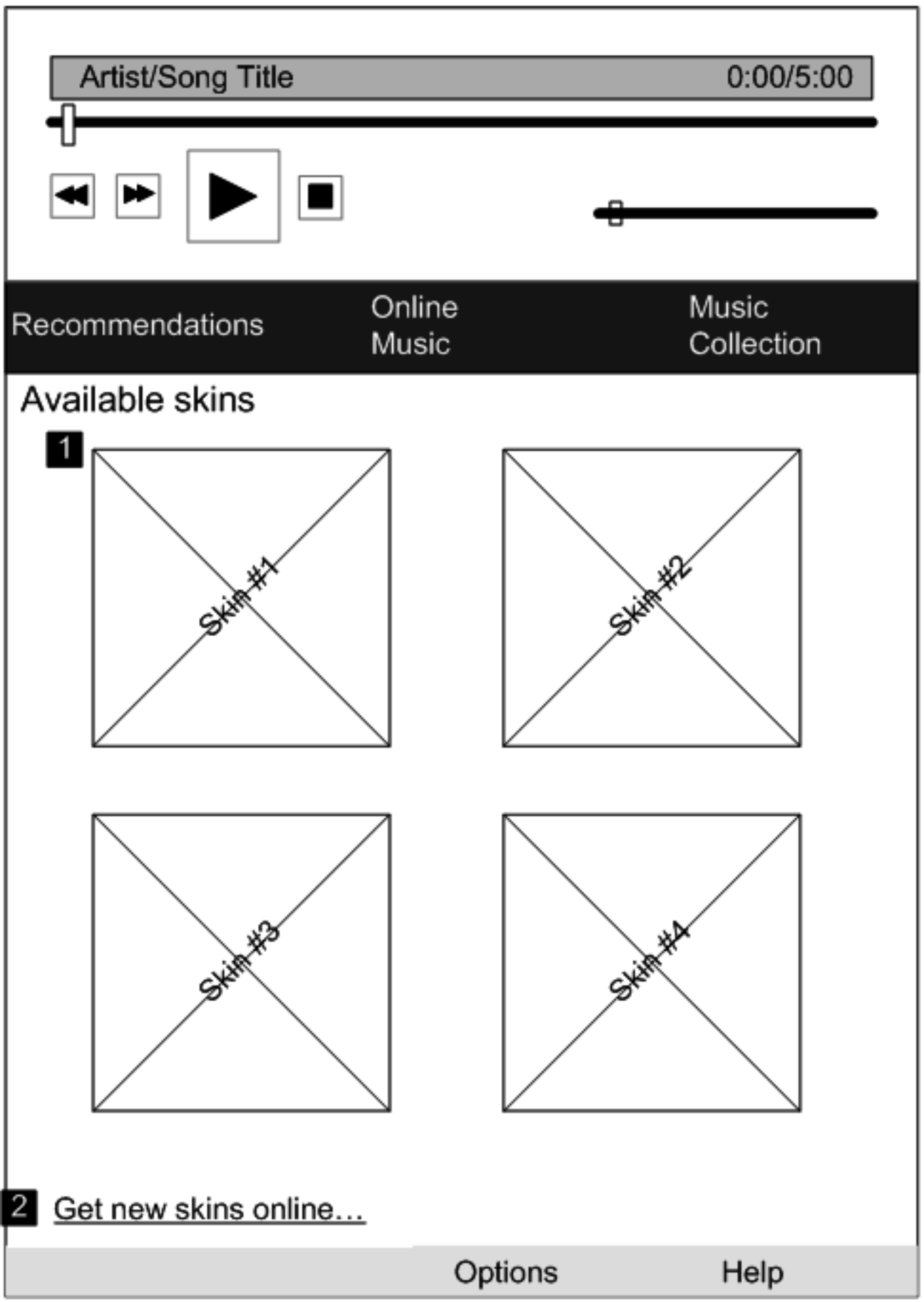
1 User can change internet options

Pop-ups



1. Shuffle and repeat will be check-box
2. Help icon will be shown for feature-specific help (point and click for explanation of the feature)

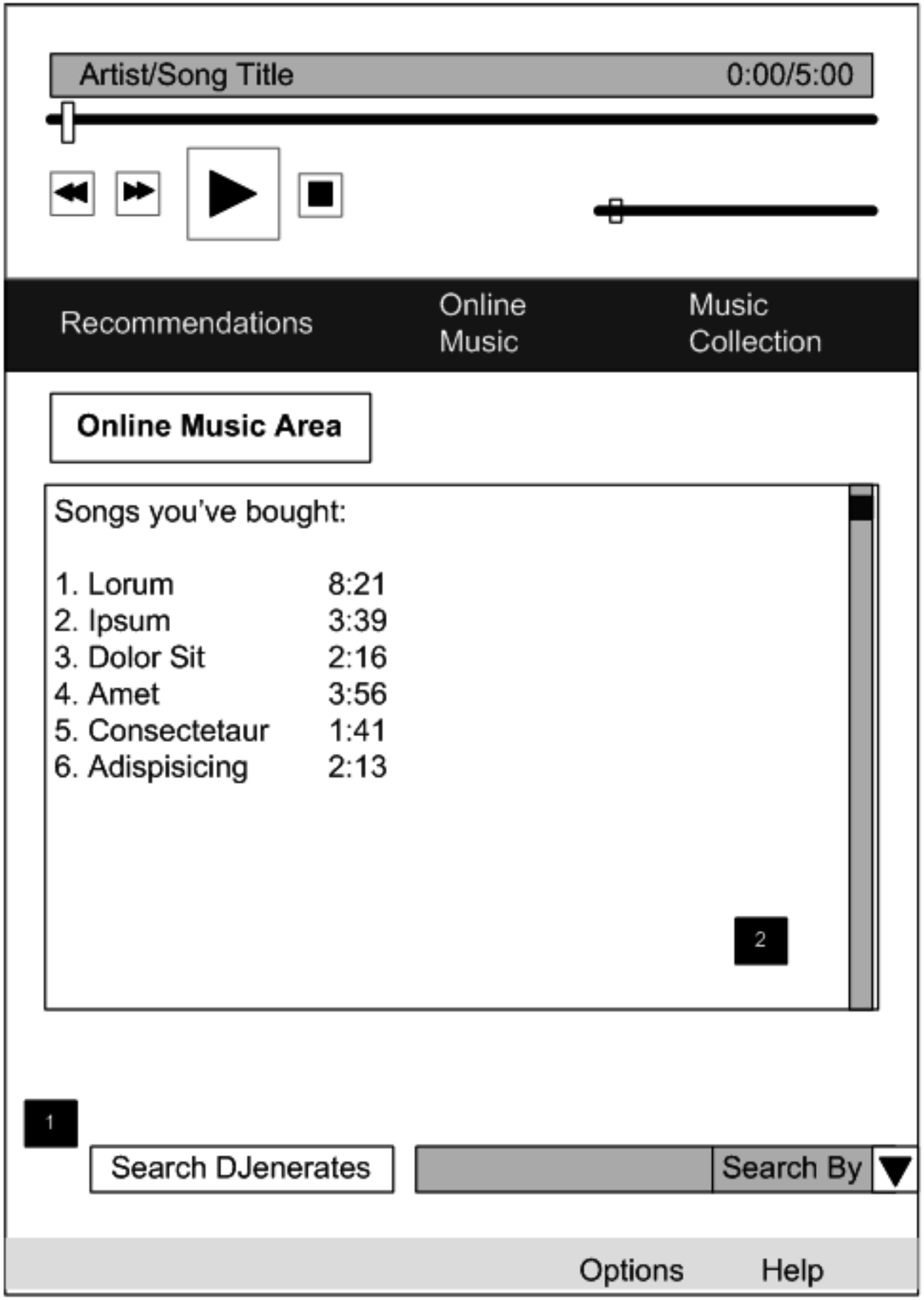
Change Skins



1 Available skins shown in preview thumbnail form

2 Links to online skin library webpage

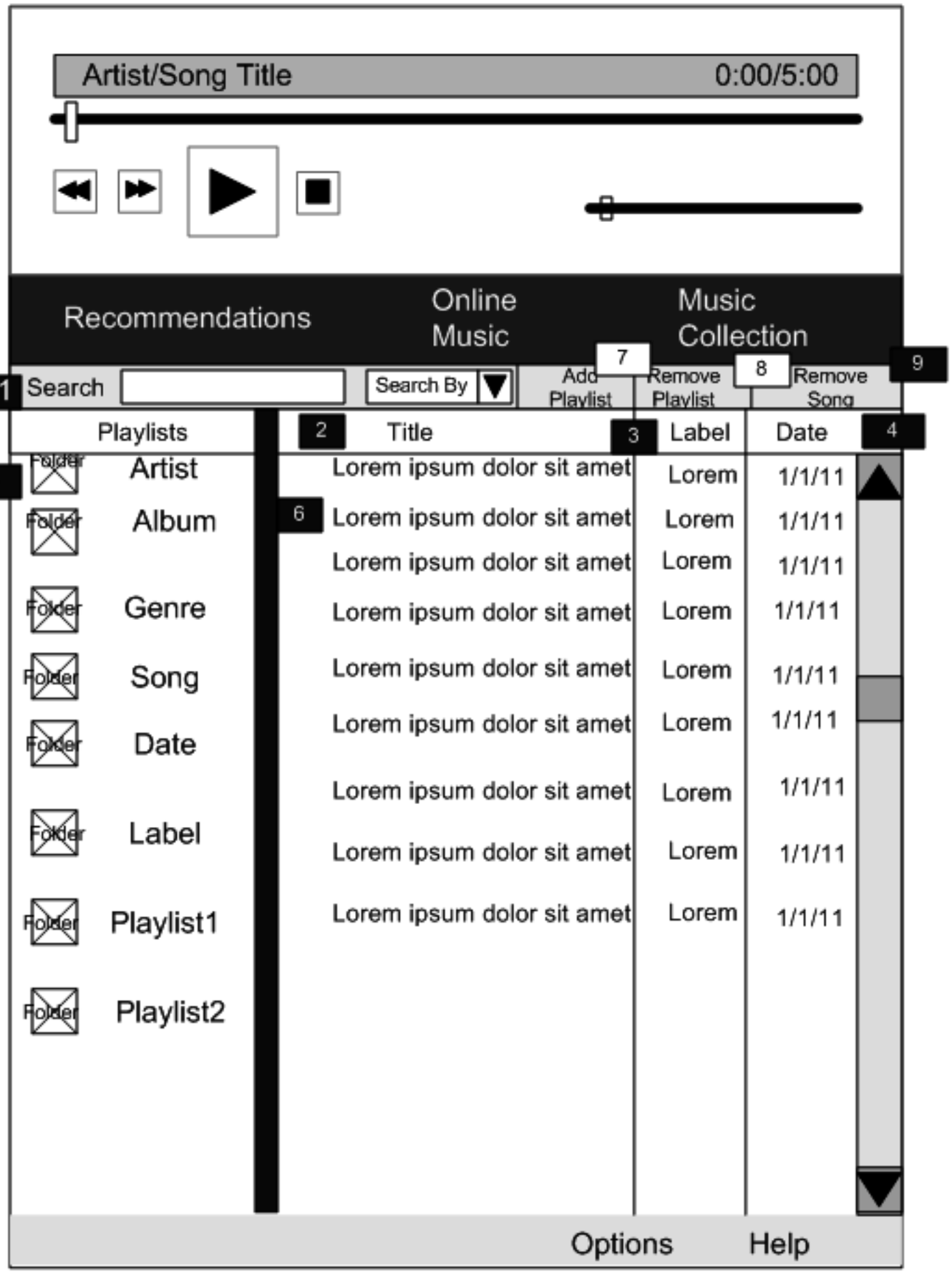
Online Music Area Mainpage



1 Searches for songs matching keywords by artist, label, song title, album

2 List of songs you have already bought from DJenerates

Music Collection



1 **Search** - Click on Search or within box and enter search query. Can search by song title, album, artist, and date

2 **Title** - If clicked by user, lists the below titles in alphabetical order

3 **Label** - If clicked by user, lists the below titles in order by label

4 **Date** - If clicked by user, lists the below titles in order by date

5 **Folders** - Top of the hierarchy. Within each folder are subset folders organized alphabetically. Done in the style of File Explorer. The songs within the folders are displayed in the section to the right

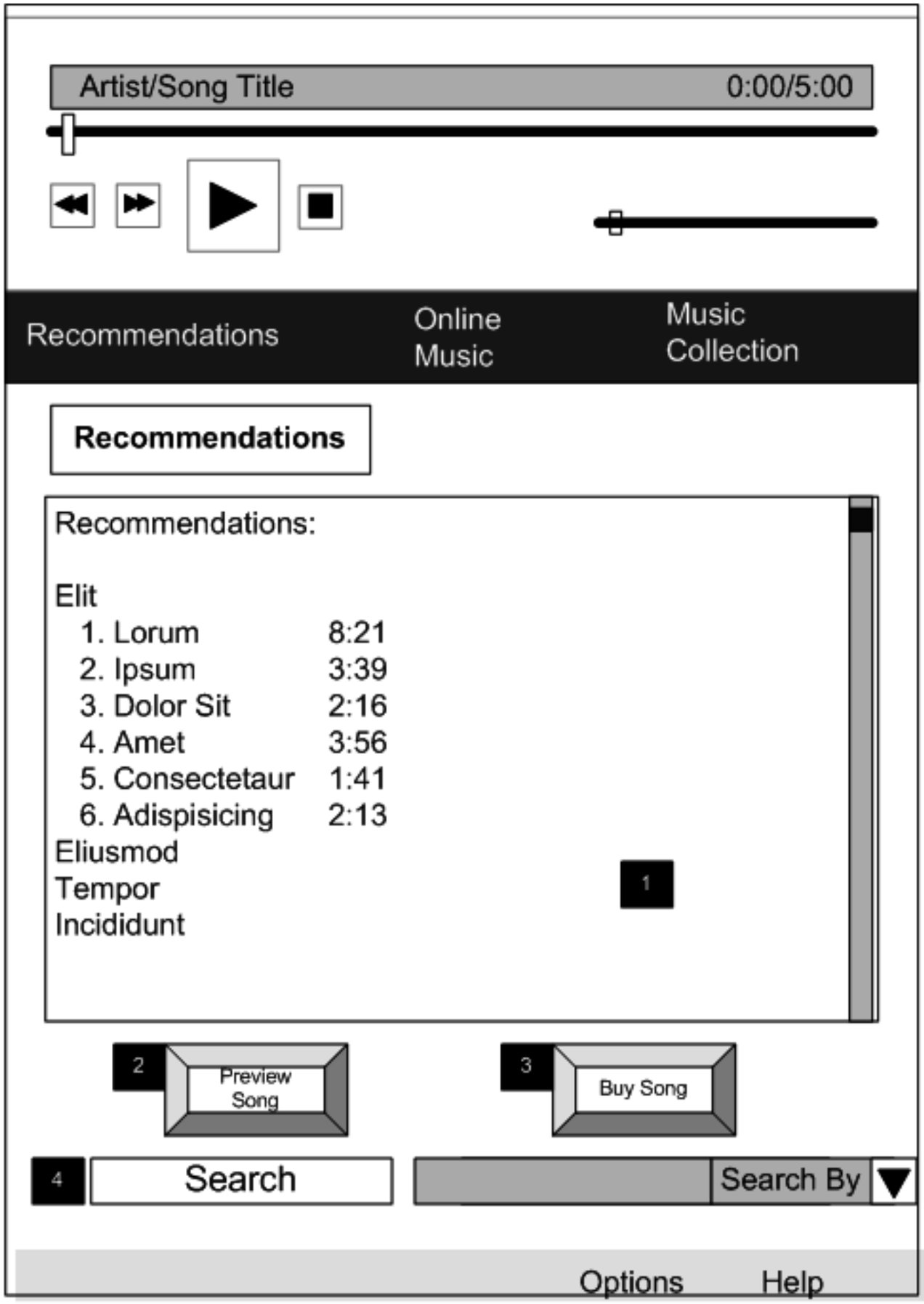
6 Titles of songs

7 **Add Playlist** - Creates new playlist folder.

8 **Remove Playlist** - When a playlist is selected, removes the playlist

9 **Remove Song** - When a song is selected, removes a song

Recommendations



● If a song was selected or playing when Recommendations is clicked, recommended songs are displayed. Otherwise, no recommendations are displayed, but the user can still search for recommendations

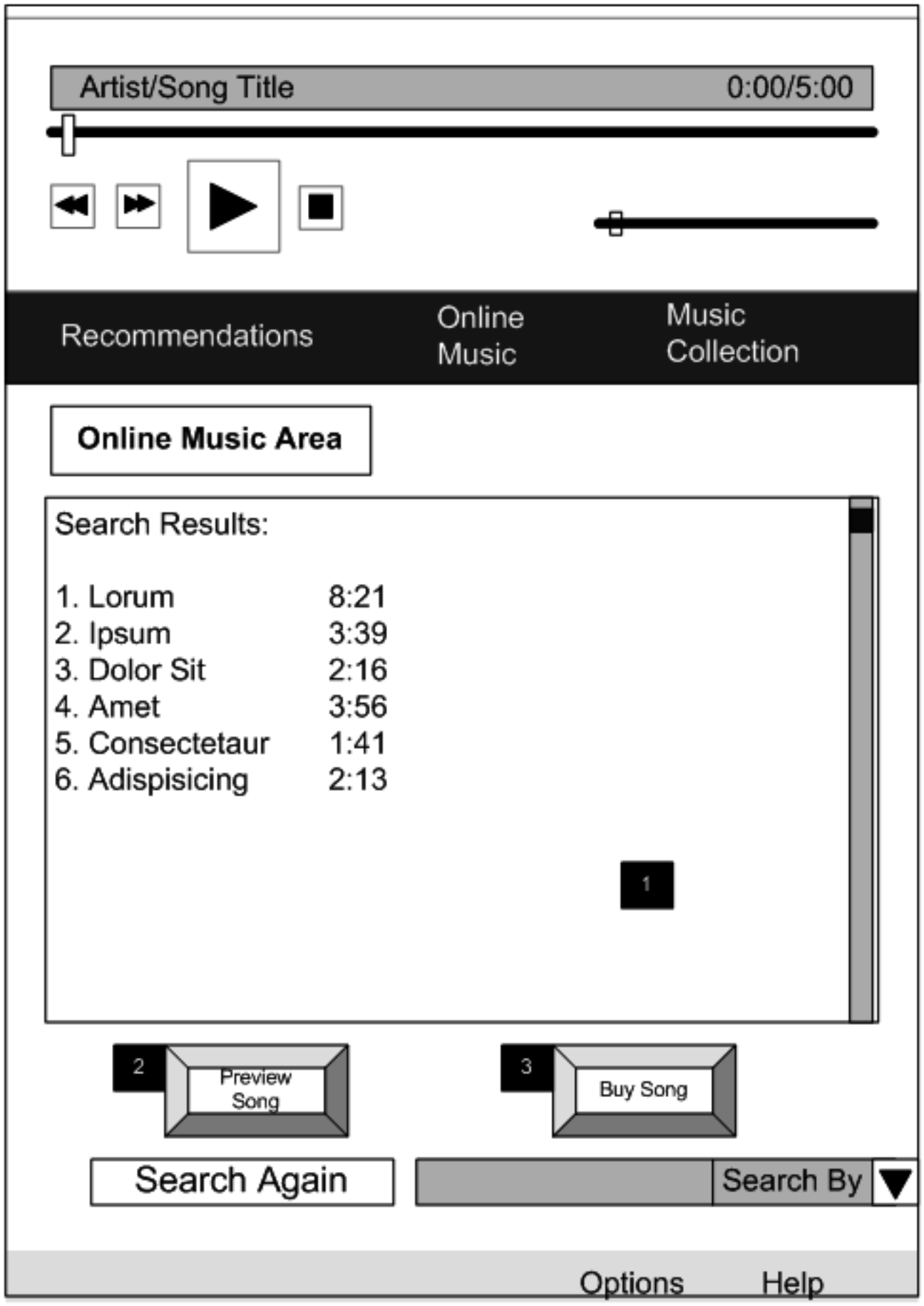
1 Recommendations from Djenerates catalogue. Lists band name on left. Click on the band name displays a numbered list with their songs for user to select.

2 Streams a short sample of the song

3 Deducts money from account and begins downloading song to your PDA

4 Find Recommendations of Search query. Search by artist, label, song title, and album

Search Results

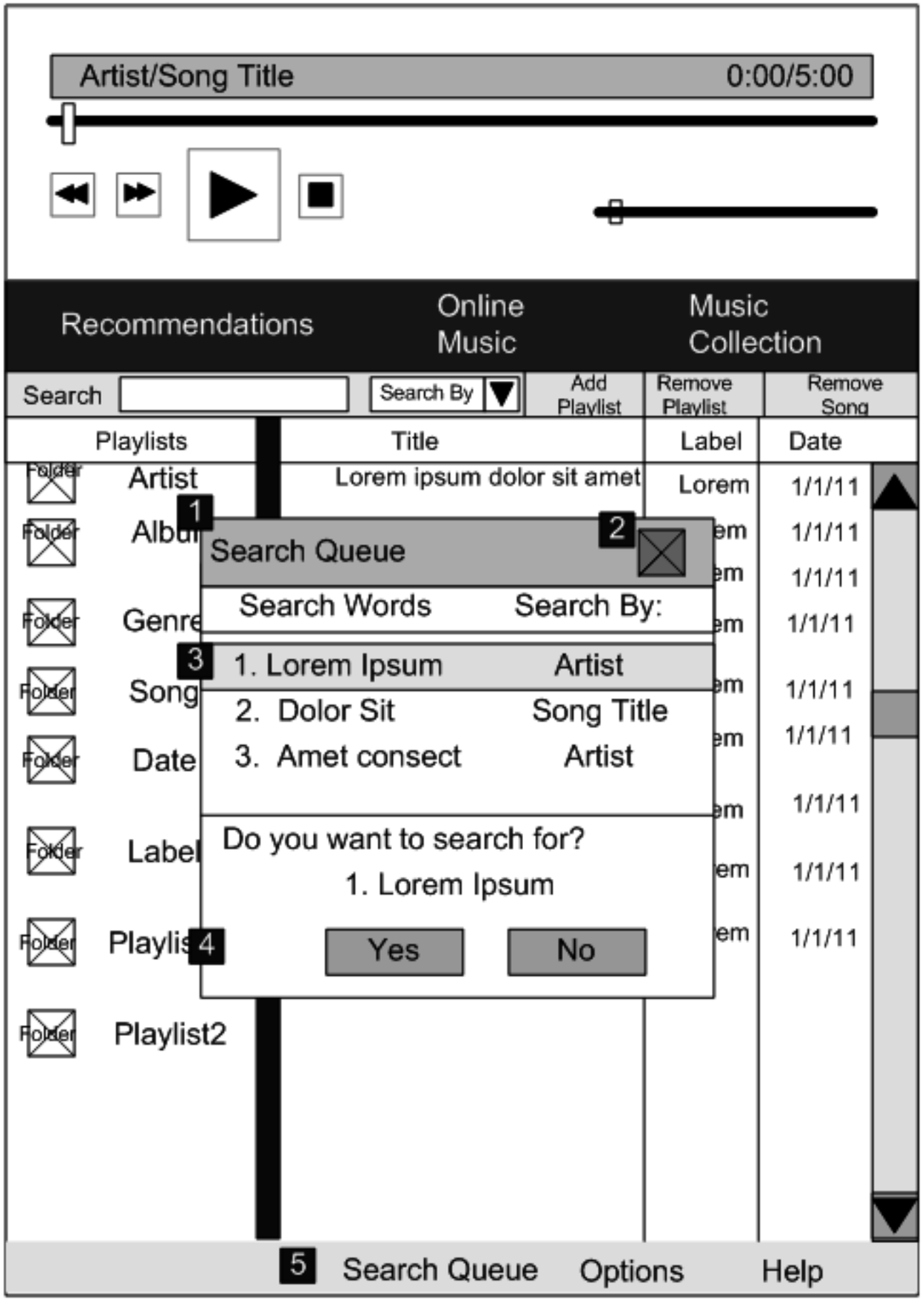


1 List of songs matching search criteria

2 Streams a short sample of the song

3 Deducts money from account and begins downloading song to your PDA

Search Queue



- When a user is offline, the user can enter search queries and have those stored into a search queue. When the PDA establishes an internet connection, this Search Queue screen pops up.

1. Displays the searches that are in the search queue. Displays search words and what these words are to be searched by.

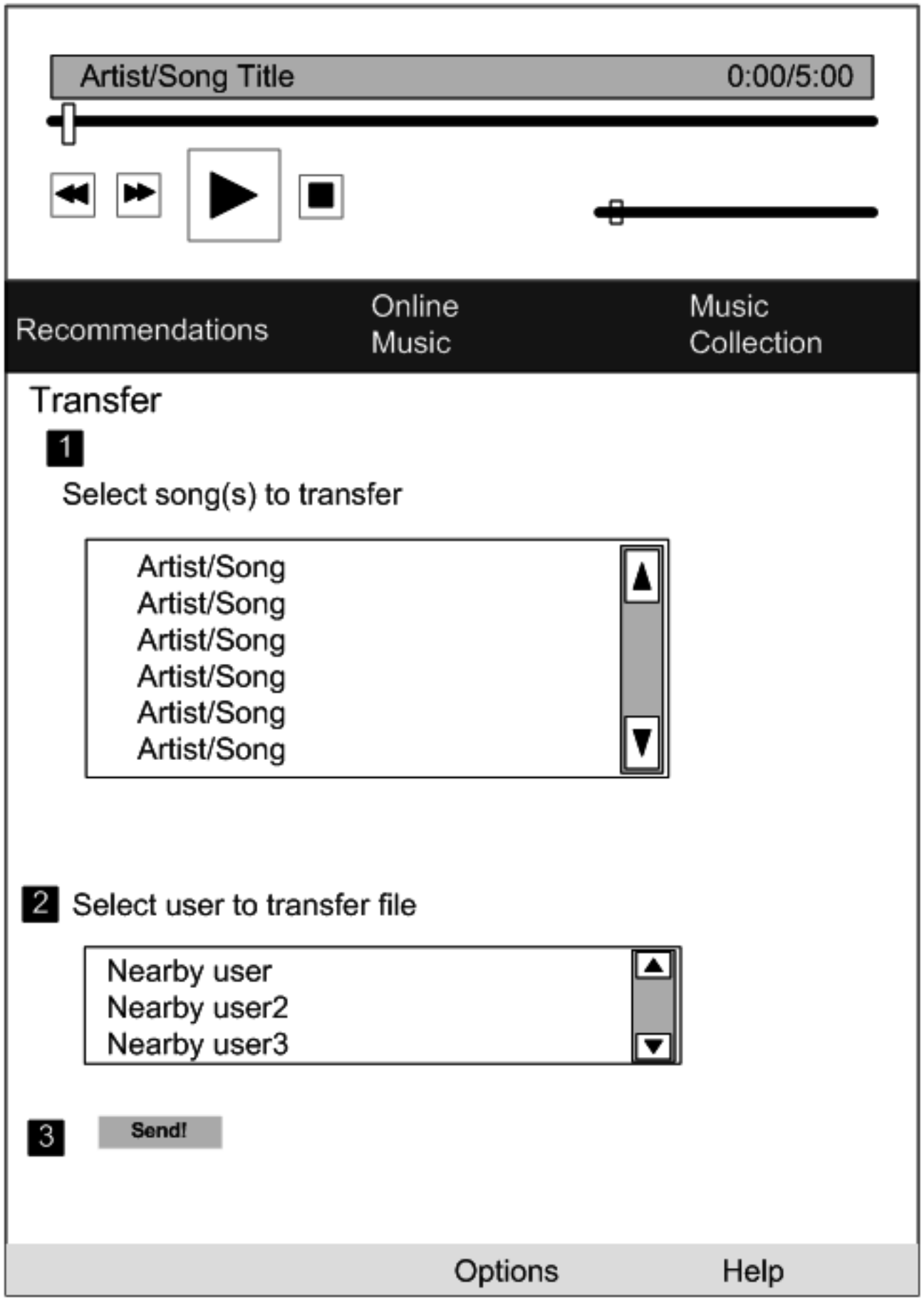
2. Close the Pop-Up window

3. User can select from list which search words to search for, if desired, otherwise program selects the top search of the list.

4. Have a choice of whether or not to search for these words

5. Search Queue appears at bottom of screen and stays there as long as there are items in the search queue and the PDA has an established internet connection. Clicking on search queue brings up the pop-up screen that is currently displayed.

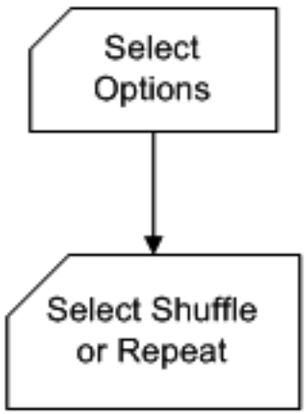
Transfer Files



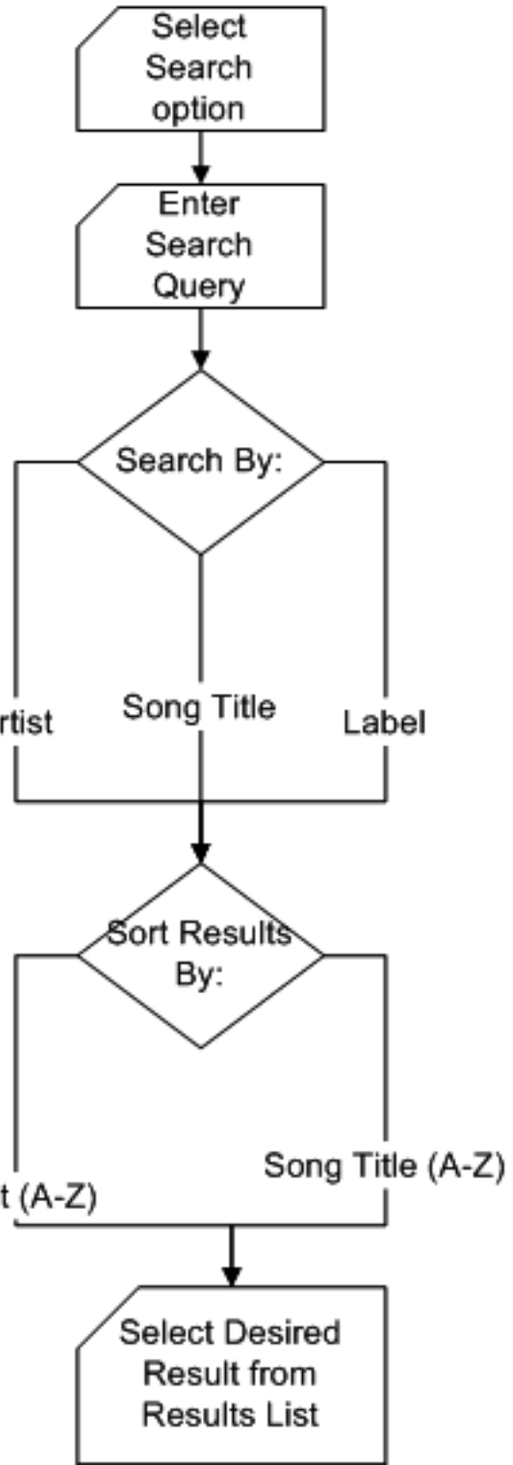
- As of now, this implementation was designed for IR Transfer, which is a standard on all PDAs. Bluetooth is a viable but less common of an option that, if future designers desired, could easily be integrated into this screen

1. User selects songs to transfer
2. Users within range or on the available network are displayed
3. Send button initiates file transfer

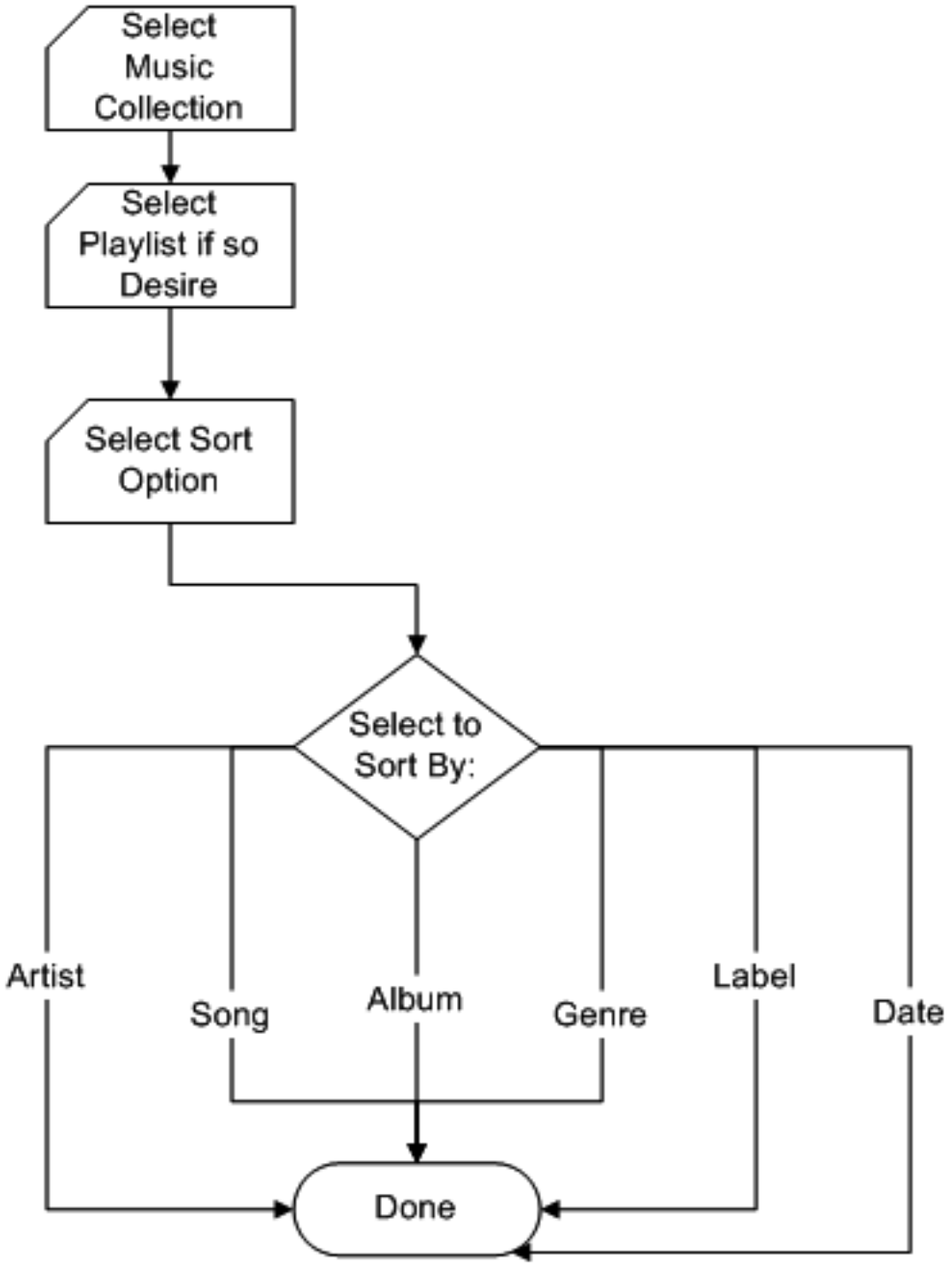
Shuffle/ Repeat

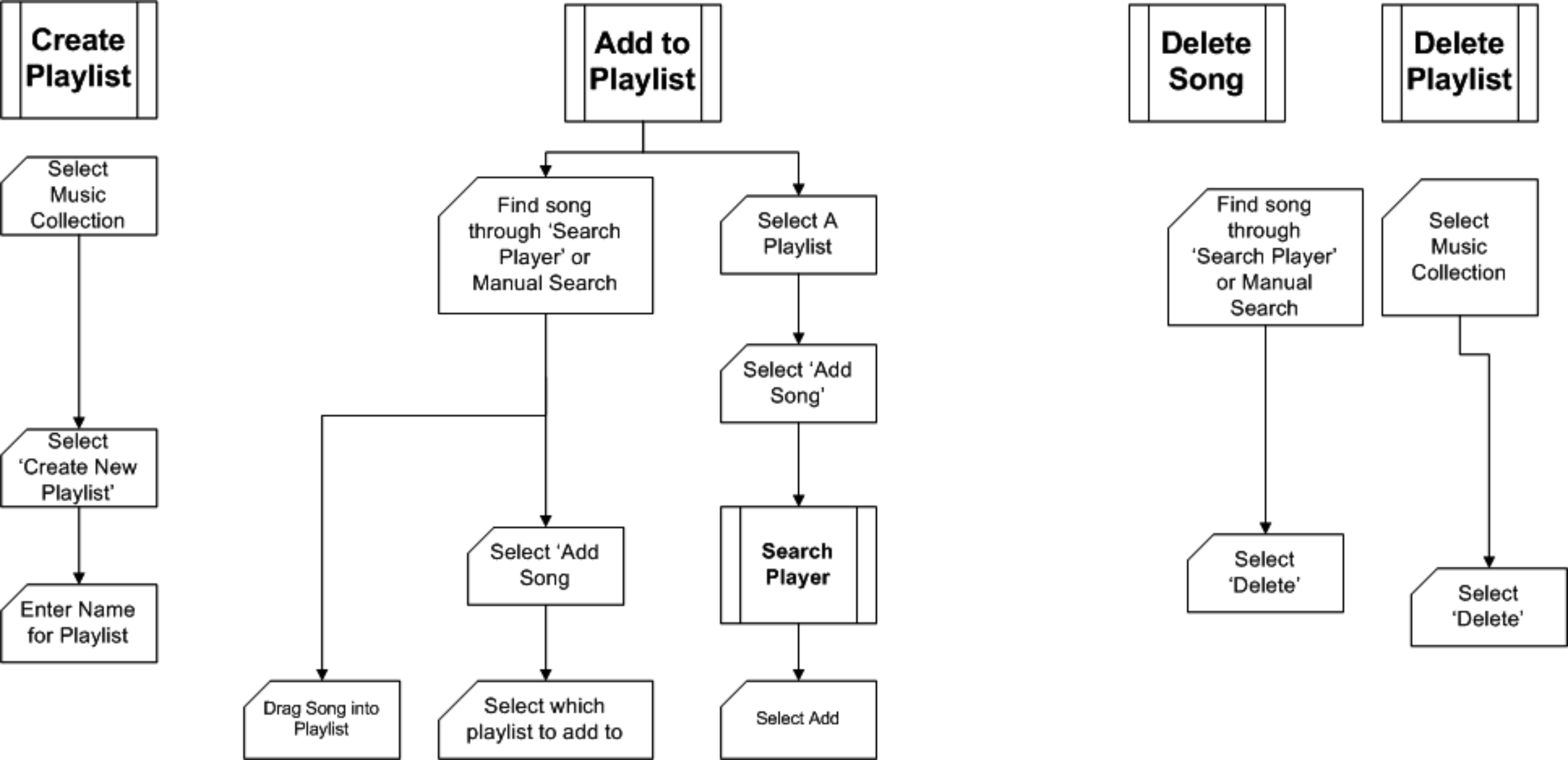


Search Player



Sort




Create Playlist
Select Music Collection
Select 'Create New Playlist'
Enter Name for Playlist
Add to Playlist
Find song through 'Search Player' or Manual Search
Select A Playlist
Select 'Add Song'
Search Player
Select Add
Select 'Add Song
Select which playlist to add to
Drag Song into Playlist
Delete Song
Find song through 'Search Player' or Manual Search
Select 'Delete'
Delete Playlist
Select Music Collection
Select 'Delete'

Install to PDA

Open installer file

Choose default install location

Browse for install location

Search for all music on PDA?

No

Yes

Choose location to save music files to

Register for Djenerates?

No

Yes

Enter registration info

Computer installs program

Open Program now?

Yes

Open Program

No

Done

Change Skins

Select 'Change Skins' from Options menu

Computer displays installed skins and option to go online for more

Select installed skin

Go online

Display list of online skin catalogue

Select online skin

New skin is implemented in program

Done

Recommend ations

Select 'Recommendati on' option

No song selected

Enter song title

If song is selected

Display recommendatio ns for song

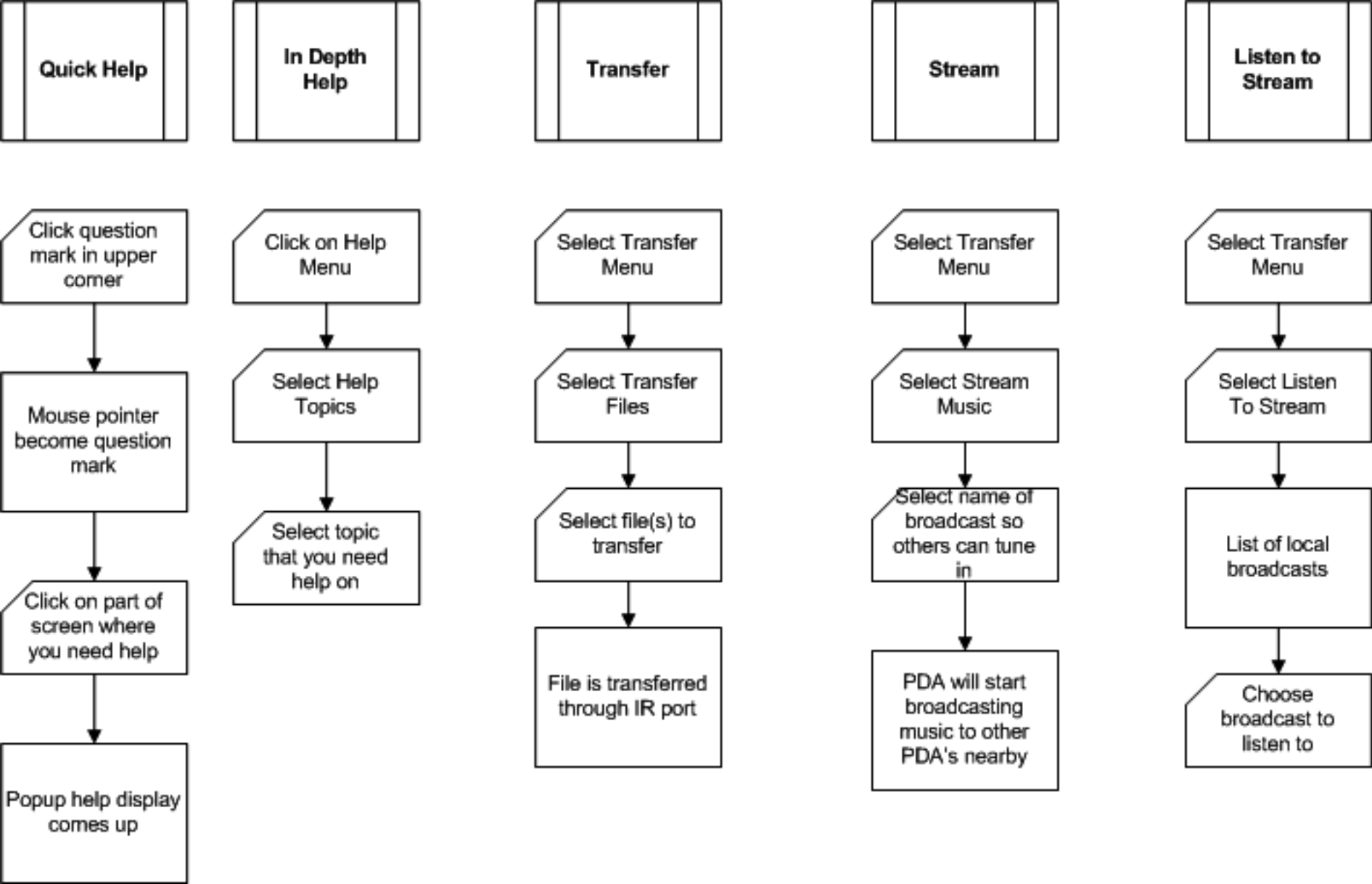
Select song to preview

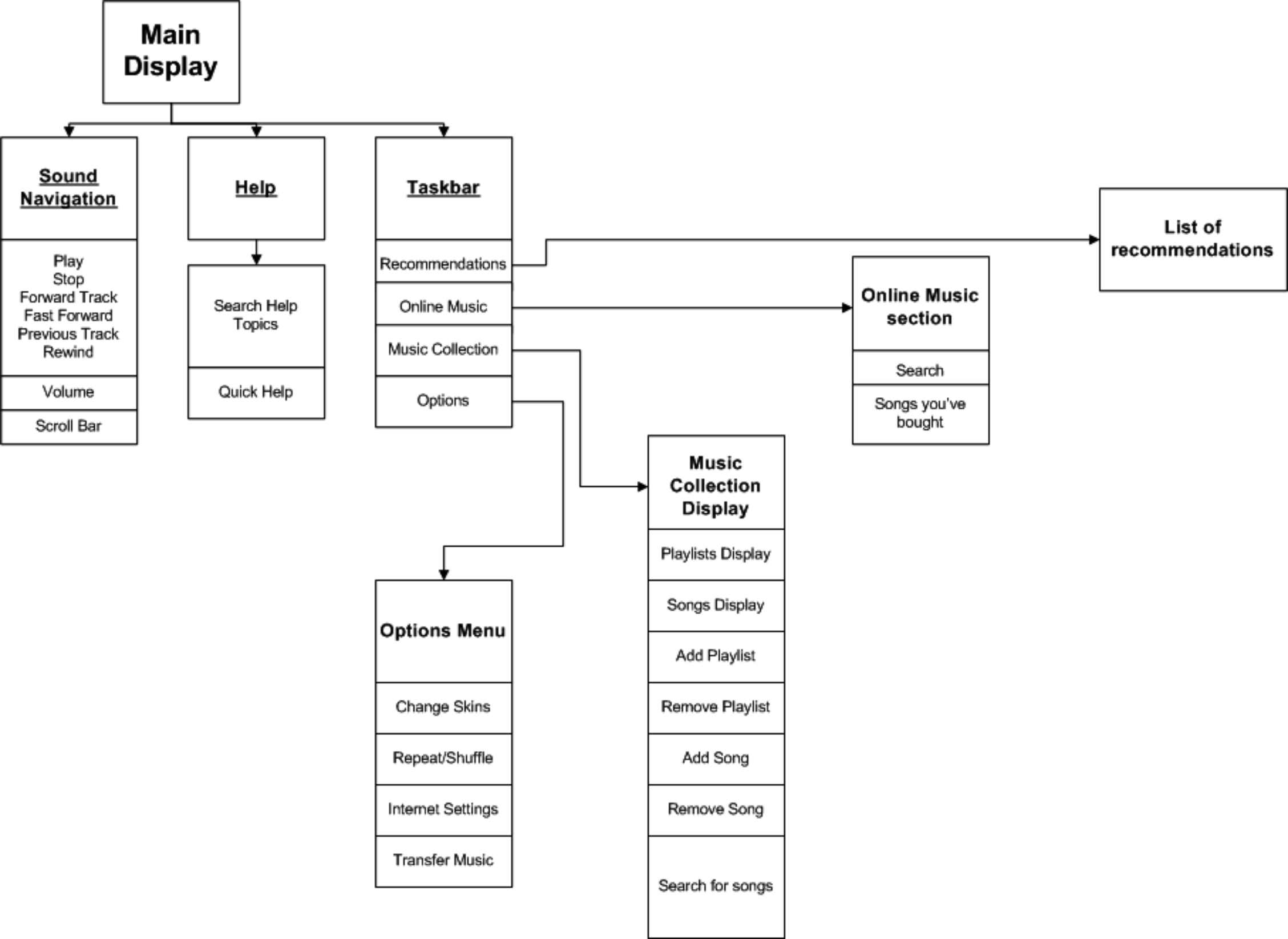
Like it

Don't like it

Download song

Go back to recommendations list


Quick Help
Click question mark in upper corner
Mouse pointer become question mark
Click on part of screen where you need help
Popup help display comes up
In Depth Help
Click on Help Menu
Select Help Topics
Select topic that you need help on
Transfer
Select Transfer Menu
Select Transfer Files
Select file(s) to transfer
File is transferred through IR port
Stream
Select Transfer Menu
Select Stream Music
Select name of broadcast so others can tune in
PDA will start broadcasting music to other PDA's nearby
Listen to Stream
Select Transfer Menu
Select Listen To Stream
List of local broadcasts
Choose broadcast to listen to


Main Display
Sound Navigation
Play
Stop
Forward Track
Fast Forward
Previous Track
Rewind
Volume
Scroll Bar
Help
Search Help Topics
Quick Help
Taskbar
Recommendations
Online Music
Music Collection
Options
List of recommendations
Online Music section
Search
Songs you've bought
Music Collection Display
Playlists Display
Songs Display
Add Playlist
Remove Playlist
Add Song
Remove Song
Search for songs
Options Menu
Change Skins
Repeat/Shuffle
Internet Settings
Transfer Music

Search Online

Enter Online Music Area

Enter Search Query

Search By:

Artist

Song Title

Label

Online

Offline

Sort Results By:

Artist (A-Z)

Title (A-Z)

Date Released

Most Popular

Select Desired Result from Results List

Place Search into Search Queue?

Yes

No

Done

Listen to Clip

Search Online

Select Music Clip to listen to

Download Music

Select from 'Bought Songs'

Search Online

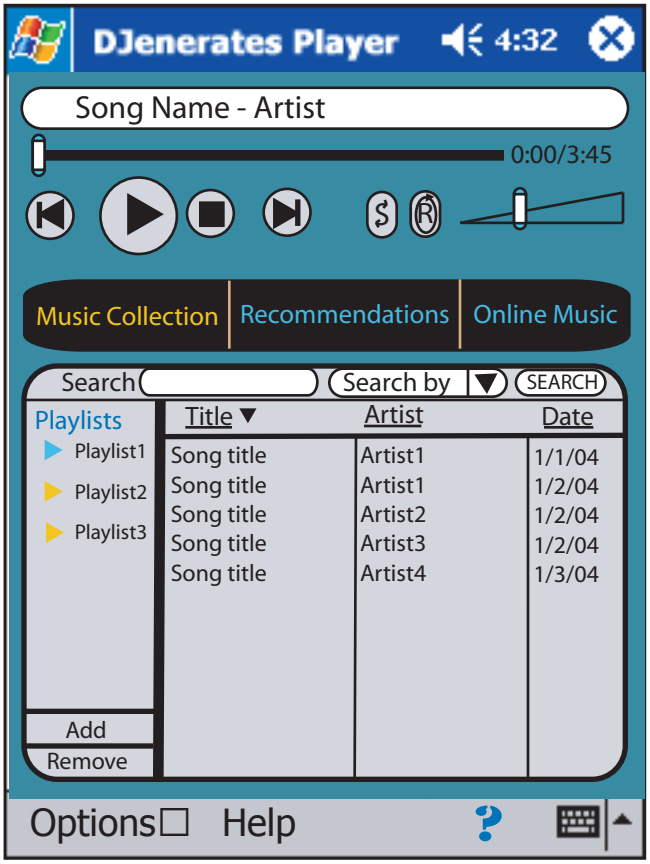
Select Song to Download

Not Registered

Registered

Register with DJenerates

Done


DJenerates Player
4:32
Song Name - Artist
0:00/3:45
Music Collection
Recommendations
Online Music
Search
Search by
SEARCH
Playlists
Playlist1
Playlist2
Playlist3
Title
Artist
Date
Song title
Artist1
1/1/04
Song title
Artist1
1/2/04
Song title
Artist2
1/2/04
Song title
Artist3
1/2/04
Song title
Artist4
1/3/04
Add
Remove
Options
Help

Foreigner - I just Died In Your Arms Tonight (4:41)
02:47
Shuffle
Music Collection
Online Music
Recommendations
Playlists
Artist
Album
Genre
Song
Date
Label
Playlist 1
Playlist 2
Title
Label
Lorum Ipsum
Dolor
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