**I. Conceptual design**

**A. Musician/Band general information**

1. Retrieve Artist / Band name(s), place of birth, place of band formation, years of formation. Also retrieve general personal details (if available).
2. Retrieve general genres and styles of music the Band/Artist plays.
3. Retrieve Band/Artist general music-related facts – where the band was formed, what year, beginning musical interests and other details
4. Generate links to external Band’s/Artist’s websites
5. Identify trends (if any) towards one or more musical styles (rock, pop, etc.)
6. Most notable influences on the Band/Artists’ music – an event, a person, a musical style
7. List Band/Artist personal interests outside of music – other professional interests, hobbies, etc.
8. List the most famous songs/appearances of the Band/Artist
9. List musical instrument preferences and abilities (of the band members or the individual artist)

**B. Albums**

1. List all current and past albums on the market in chronological order
2. When a person clicks on an album, the program will display the album contents on the same page (similar to a drop-down menu). It will display the songs in the order they are on the album.
3. The user will be able to listen to a 30 second preview of the songs from the album (where available)
4. The user will be able to see the album cover and its variations based on the physical location the album was being sold (i.e. in another country, etc).
5. The user will be provided with the option to purchase songs or the entire album by links to major retailers (Amazon.com, Apple iTunes, etc).
6. Display album statistics – sales figures, popularity, etc.
7. Provide detailed information about album collaborators, producers, etc.

**C. Historical Data**

1. Retrieve all historical data available for the Band/Artist and organize it in chronological order
2. Associate dates with other Band/Artist events – example: Summer 2009 the band had 3 on-stage appearances and a new album release
3. Group historical data based on specific criteria – Albums, personal information, trivia, etc.
4. Provide a chart displaying historical progress with key event annotations.

**D. Search Function**

1. Provide a basic search function with a search bar available on the main page
2. The basic search function will allow you to select from a drop-down list if you would like to search for a specific Band, Artist, Genre, Album or Song
3. Provide the ability to perform an Advanced search. This function will inherit all the functionality of the Basic search.
4. The Advanced search will allow the user to search by Band/Artist active years, place of origin, movie soundtrack, etc.
5. Search results function – allow the user to sort the search results
6. Provide the ability to establish a direct-match – create a reasoning engine to determine a degree of probability that a direct match for the Band/Artist has been found by the search function and take the user directly to the Band/Artist details page, skipping the search results screen.
7. Provide spelling suggestions based on incorrect user input
8. Keep organized history of the user’s searches – no more than the last 25 searches. This can be used for trend identification.

**E.  Awards**

1. Display music awards in chronological order
2. Display nominations for awards
3. Display other recognitions and nominations, including non-music-related awards and recognitions.

**F. User Profile and User Login**

1. The website will provide the ability to create user profiles for individuals and organizations
2. User account creation / modification / deletion page
3. A music preference function will be created and associated with a user’s account. This function will allow the user to specify their personal preference in music.
4. There will be a “contribute” tab associated with the user account. This tab will be present on the top of every page. It will allow the user to contribute to a Band/Artist’s page by entering additional information or correcting inaccurate data already present on the site.
5. The user will be able to create personalized Band/Artist alerts to notify the user when an event, associated with their favorite Band/Artist is going to take place.
6. (Optional) Provide some basic peer connections with other site members, who share similar musical interests.

**G. Rankings**

1. Retain/Display information about Band/Artist rankings in charts around the world (US Top 40, etc)
2. Display site user ratings, based on a “10-stars” system, with the ability to indicate ½ a start. Thus allowing for a 20 “point” rating system”
3. Apply weights in order to compensate for individual user’s opinions. If a person does not like country music and attempts to rate the performance of an all-country Band/Artist, then the rating they gave will not be counted as highly as someone, who enjoys the specific genre.
4. Provide links to other famous Internet and print sources for ratings and critics’ reviews

**H. Upcoming Events**

1. Display upcoming Band/Artist events
2. Provide a link to Ticketmaster or other online event resources
3. Create a proximity function – the ability to sort results based on event date and the proximity to the user’s physical location (if it is known)

**I. Credits**

1. Provide credit to Record companies and Record Labels involved with the Band/Artist
2. Provide credit for song re-makes, which the Band/Artist has done
3. Provide credit for managers, event venues, etc.

**J. Band/Artist Trivia**

1. Display random or purposeful trivia about the Band/Artist
2. Organize this information based on relevance to the Band/Artist. Less-relevant information will be shown towards the bottom of the page

**K. Message Boards**

1. Provide authorized users with the ability to type messages on the bottom of the page (personal comments)
2. Create a basic filter for inappropriate content

**L. Suggestion Engine**

1. Develop a genre cross-reference “chart” or “spectrum”
2. Based on a user’s personal music preferences and saved searches, suggest music from other artists or similar genres
3. Allow the user to “tweak” the suggestion engine configuration in order to place more emphasis on specific genres or artists.
4. Create a function, which would be capable of merging suggestion results from the current page with suggestion results from other online sources (such as Amazon and iTunes).

**M. Web Interfaces**

1. Provide a web interface for administrative users and high-level content contributors, such as journalists and well-established music critics.
2. Provide an interface for registered site users
3. Provide an interface for the general public – non-registered anonymous users.

**II. TSPi Strategy Form - Form STRAT**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | | Team Dragon | | | Date | | | | 04/24/2010 | | |
| Team | | Dragon | | | Instructor | | | | Mike Powers | | |
| Part/Level | | iMusicDB | | | Cycle | | | |  | | |
|  | |  | | | |  | | |  | | |
|  |  | | **Cycle LOC** | | | | | **Cycle Hours** | | | |
| **Ref.** | **Functions** | | **1** | **2** | | | **3** | **1** | | **2** | **3** |
| 1.1 | Front Page Dynamic Content Shell | | 50 | 0 | | | 0 | 5 | | 0 | 0 |
| 1.2 | Band/Artist general information | | 80 |  | | |  | 10 | | 0 | 0 |
| 1.3 | Genres and types of music the band plays | | 35 |  | | |  | 4 | | 0 | 0 |
| 1.4 | Generate Band/Artists website links (to artists websites) | | 20 |  | | |  | 3 | | 0 | 0 |
| 1.5 | Identify trends towards musical genres and styles | | 35 |  | | |  | 4 | | 0 | 0 |
| 1.6 | Identify most notable influences (in music) | |  | 60 | | |  | 0 | | 8 | 0 |
| 1.7 | Interests outside of music – personal, professional, etc. | |  |  | | | 20 | 0 | | 0 | 3 |
| 1.8 | List of most famous songs and appearances | |  | 35 | | |  | 0 | | 4 | 0 |
| 1.9 | List musical instrument preferences and abilities | |  | 35 | | |  | 0 | | 4 | 0 |
| 2.1 | List all current and past albums in chronological order | |  | 80 | | |  | 0 | | 10 | 0 |
| 2.2 | Display correct album contents | |  | 120 | | |  | 0 | | 15 | 0 |
| 2.3 | Song previews | |  |  | | | 160 | 0 | | 0 | 20 |
| 2.4 | Album cover graphics | |  |  | | | 100 | 0 | | 0 | 13 |
| 2.5 | Song purchasing | |  |  | | | 250 | 0 | | 0 | 31 |
| 2.6 | Album statistics | |  | 80 | | |  | 0 | | 10 | 0 |
| 2.7 | Album details, contributors, producers, retailers | |  | 50 | | |  | 0 | | 6 | 0 |
| 3.1 | Organize historical data chronologically | |  | 25 | | |  | 0 | | 3 | 0 |
| 3.2 | Associate dates with other Band/Artist events | |  |  | | | 60 | 0 | | 0 | 8 |
| 3.3 | Group historical data based on predefined criteria | |  |  | | | 100 | 0 | | 0 | 13 |
| 3.4 | Provide a chart reflecting historical progress and patterns; include annotation | |  |  | | | 120 | 0 | | 0 | 15 |
| 4.1 | Basic search function with a search bar | | 120 |  | | |  | 15 | | 0 | 0 |
| 4.2 | Drop-down list for search options | | 35 |  | | |  | 4 | | 0 | 0 |
| 4.3 | Advanced search function | |  | 180 | | |  | 0 | | 23 | 0 |
| 4.4 | Advanced search options | |  | X | | |  | 0 | | 0 | 0 |
| 4.5 | Display and sort search results | | 40 |  | | |  | 5 | | 0 | 0 |
| 4.6 | If a match is found and determined to be 100% positive, take the user directly to the Band/Artist page. | |  | 50 | | |  | 0 | | 6 | 0 |
| 4.7 | Spelling suggestion for misspelled words | |  |  | | | 100 | 0 | | 0 | 13 |
| 4.8 | Retain history of user searches – no more than the last 25 searches. | |  | 60 | | |  | 0 | | 8 | 0 |
| 5.1 | Display awards | |  | 130 | | |  | 0 | | 16 | 0 |
| 5.2 | Display nominations | |  | X | | |  | 0 | | 0 | 0 |
| 5.3 | Display other recognitions | |  | X | | |  | 0 | | 0 | 0 |
| 6.1 | Authentication System Shell | | 50 |  | | |  | 6 | | 0 | 0 |
| 6.2 | Create user profiles on the website | | 80 |  | | |  | 10 | | 0 | 0 |
| 6.3 | User account management | |  | 130 | | |  | 0 | | 16 | 0 |
| 6.4 | Music preference function | |  |  | | | 180 | 0 | | 0 | 23 |
| 6.5 | Personal content contribution | |  |  | | | 90 | 0 | | 0 | 11 |
| 6.6 | Personalized band alerts and notifications | |  |  | | | 200 | 0 | | 0 | 25 |
| 6.7 | (optional) peer connections within the website | |  |  | | | 350 | 0 | | 0 | 44 |
| 7.1 | Rankings information from charts around the world | |  | 140 | | |  | 0 | | 18 | 0 |
| 7.2 | User “star” ratings | |  |  | | | 250 | 0 | | 0 | 31 |
| 7.3 | Function to apply “weights” to user ratings | |  |  | | | X | 0 | | 0 | 0 |
| 7.4 | Links to outside print and electronic resources | |  | 160 | | |  | 0 | | 20 | 0 |
| 8.1 | Upcoming events | |  |  | | | 340 | 0 | | 0 | 43 |
| 8.2 | Link to external event sites and ticket purchasing services | |  |  | | | X | 0 | | 0 | 0 |
| 8.3 | Proximity function | |  |  | | | X | 0 | | 0 | 0 |
| 9.1 | Credit for Record companies | |  | 90 | | |  | 0 | | 11 | 0 |
| 9.2 | Credit for work, re-made by the Band/Artist | |  | X | | |  | 0 | | 0 | 0 |
| 9.3 | Credit for other parties involved | |  | X | | |  | 0 | | 0 | 0 |
| 10.1 | Display/gather trivia information | |  |  | | | 120 | 0 | | 0 | 15 |
| 10.2 | Create relevance scale for trivia information for the Band/Artist | |  |  | | | X | 0 | | 0 | 0 |
| 11.1 | Allow authorized users to enter comments on the Band/Artist’s page | |  | 40 | | |  | 0 | | 5 | 0 |
| 11.2 | Create content filter | |  | 100 | | |  | 0 | | 13 | 0 |
| 12.1 | Develop a genre cross-reference “chart” or “spectrum” | |  |  | | | 220 | 0 | | 0 | 28 |
| 12.2 | Suggest music from other artists or difference genres based on personal preferences | |  |  | | | 120 | 0 | | 0 | 15 |
| 12.3 | Allow for suggestion engine personalization | |  |  | | | 230 | 0 | | 0 | 29 |
| 12.4 | Merge data with other (outside) websites. | |  |  | | | 300 | 0 | | 0 | 38 |
| 13.1 | High-level administrative user interface | |  |  | | | 110 | 0 | | 0 | 14 |
| 13.2 | Interface for registered users | |  | 90 | | |  | 0 | | 11 | 0 |
| 13.3 | Anonymous user interface. | |  | X | | |  | 0 | | 0 | 0 |
| **Totals** |  | | 545 | 1655 | | | 3420 | 66 | | 207 | 432 |