

Requirement Gathering and Analysis Phase Data Flow Diagram & User Stories

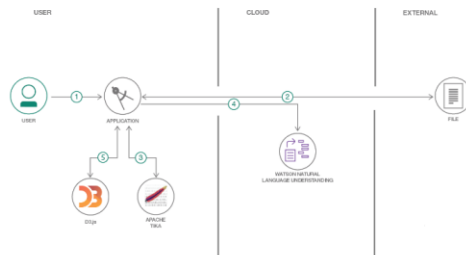
Date	06-07-2024
Team ID	SWTID1720073159
Project Name	Project - TuneTrail
Maximum Marks	

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

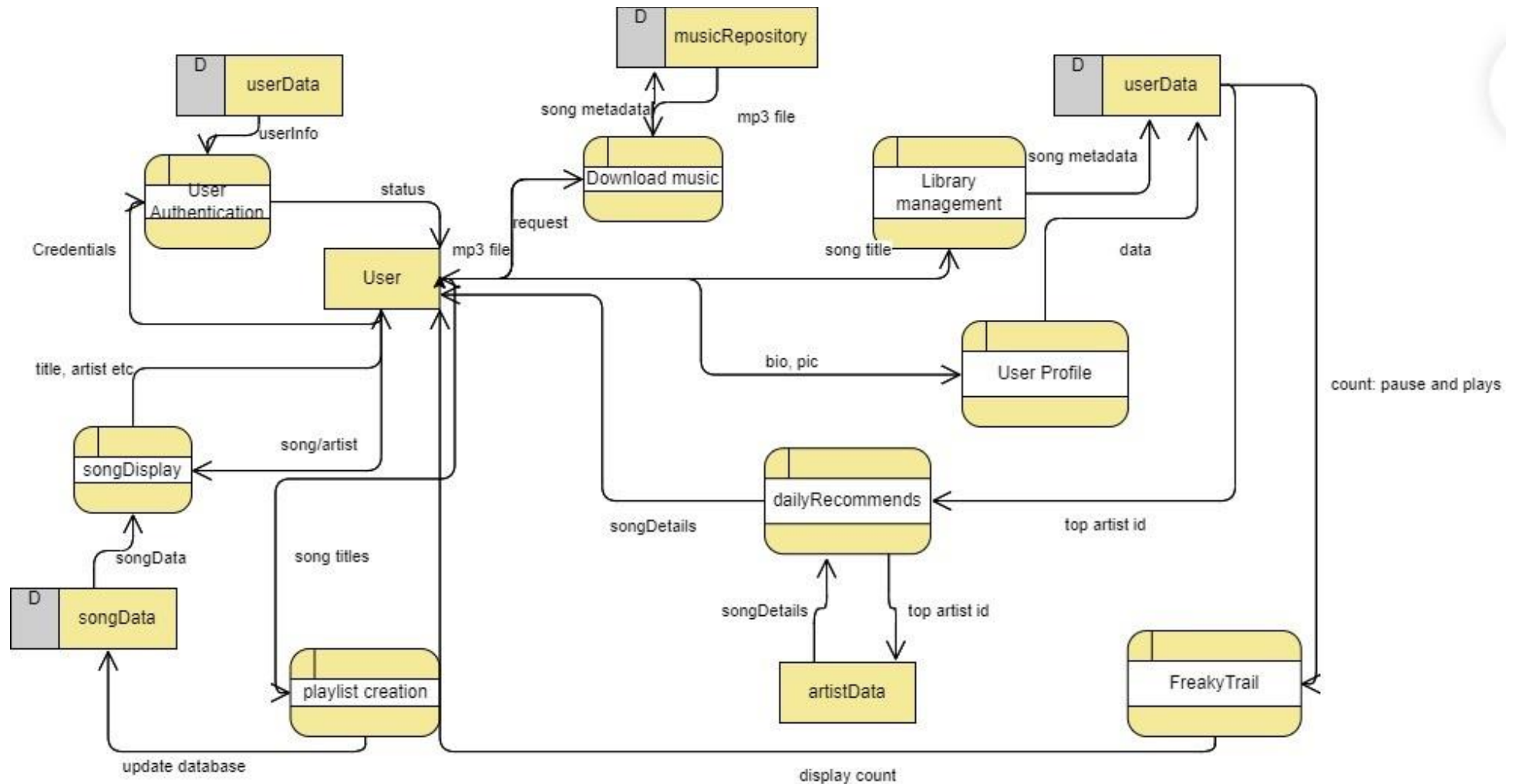
Example: [\(Simplified\)](#)

Flow



1. User configures credentials for the Watson Natural Language Understanding service and starts the app.
2. User selects data file to process and load.
3. Apache Tika extracts text from the data file.
4. Extracted text is passed to Watson NLU for enrichment.
5. Enriched data is visualized in the UI using the D3.js library.

Data Flow Diagram



User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
Customer	Song Listings	USN-2	Displays a comprehensive list of available songs with details such as title, artist, genre and release date	I can see songs on my dashboard.	High	Sprint-1
Customer	Playlist Creation	USN-3	Empower users to create personalized playlists, adding and organizing songs based on their preferences	I can edit songs in my playlist	High	Sprint-2
Customer	Playback Control	USN-4	Implement seamless playback control features, allowing users to play, pause, skip, and adjust volume during music playback	I can play, pause, skip and change volume on any track	Medium	Sprint-2
Customer	Offline Listening	USN-5	Allow users to download songs for offline listening, enhancing the app's accessibility and convenience	I can download any track on my choice	Medium	Sprint-3
Customer	Library Management	USN-6	Provide users with the ability to manage their music library, including adding, removing, and organizing saved songs and playlists.	I can edit my library with songs or playlists of my choice.	Medium	Sprint-3
Customer	Search Functionality	USN-7	Implement a robust search feature for users to easily find specific songs, artists, or albums within the app.	I can see song list upon searching for a title or artist	High	Sprint-4
Customer	User Profile	USN-8	Allow users to customize their profiles, including profile pictures, bio, and other personalization options.	I can edit and see my profile	Low	Sprint-4
Customer	Daily Recommends	USN-9	Send a song recommendation based on top artist unique to a user as per count of plays	I receive a song recommendation upon clicking recommend button	Low	Sprint-5
Customer	Freaky Trail	USN-10	Receive a digital sticker indicating your streak count of number of times of paused or played	I receive a sticker indicating my streak count on clicking 'Freaky Trail'	Low	Sprint-5
Customer	UI	USN-11	Eye catching, trendy and easy to navigate	UI is eye catching, trendy and accessible	High	Sprint-1
Customer	Compatibility	USN-12	Specifies the system's ability to operate with other systems or platforms.	The application should be compatible with the latest versions of major web browsers (Chrome, Firefox, Safari, Edge	High	Sprint-6

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer	Performance	USN-13	Specifies how well the system performs under certain conditions, such as response time, throughput, and scalability requirements.	The system should load the user's playlist details within 2 seconds	Low	Sprint-6