

Functional Requirements:

The following functional requirements are categorized into these categories: record database, Record Inventory, wishlist, and Record information.

Record Database

ID	Requirement	US-ID
FR-RD-01	Users will be able to search the record database API using artist name, band name, album name, and song name.	1, 2, 3
FR-RD-02	The system will return results when a user searches from the record database	1, 2, 3
FR-RD-03	Users will have an option to swap between a user-friendly mode (images of albums) and a list mode	

Record Inventory

ID	Requirement	US-ID
FR-RI-01	Users will be able to search their inventory with an album name, artist name, and song name	7, 8, 9
FR-RI-02	The system will return results when a user searches their record inventory	7, 8, 9
FR-RI-03	Users will have an option to swap between a user-friendly mode (images of albums) and a list mode	
FR-RI-04	Users will be able to filter their current inventory based on: album name, genre, artist name	10, 11, 12
FR-RI-05	The system will organize the inventory based on the what the user requests	10, 11, 12
FR-RI-06	The system will by default organize the record inventory of the user in alphabetical order by the artist name	12
FR-RI-07	Users will be able to change how the system organizes their record inventory by default	
FR-RI-08	Users will be able to click an owned record to be able to see information about the record.	13, 14, 15
FR-RI-09	Users will be able to add a record to their inventory through barcode	4
FR-RI-10	The system will check if a barcode is valid, if a barcode is not valid it will prompt the user to input relevant information	5

FR-RI-11	Users will be able to remove records from their inventory	
FR-RI-12	The system will keep track of the quantity of each record the user owns	

Wishlist

ID	Requirement	US-ID
FR-W-01	Users will be able to add records to their wishlist from searching the record database	6
FR-W-02	Users will be able to remove records from their wishlist	
FR-W-03	The system will be able to check if an item was in a wishlist whenever a barcode is scanned and automatically remove the item	
FR-W-04	Users will be able to quantify how many of each record they want in their wishlist	

Record information

ID	Requirement	US-ID
FR-RIF-01	Users will be able to see information about a pressing, such as how many discs, color of discs, year of pressing, manufacturer.	15
FR-RIF-02	Users will be able to see information about a album, such as artists, band members, tracklist, producer, year of recording, and genre	13, 14
FR-RIF-03	Users will be able to access information from FR-RIF-01 and FR-RIF-02 by clicking a record.	13, 14, 15
FR-RIF-04	The system will return this information and alert the user if such information is not found.	
FR-RIF-05	Users will be able to add information about their records if the system is unable to find it.	
FR-RIF-06	Users will be able to add notes to the record information.	16

Non-Functional Requirements

The following nonfunctional requirements highlight the functions of the overall operation of the application rather than specific behaviors.

Usability

ID	Requirement	US-ID
NFR-U-01	Application will take into account both Google's design guidelines for Andriod apps and phones, and Apple's design guidelines for the Apple App store and Apple phones.	
NFR-U-02	Application will fit to the various screen resolutions of Android phones, Apple phones, as well as website applications.	
NFR-U-03	Application will use consistent font as well as consistent font sizes for various sections of text.	

Reliability

ID	Requirement	US-ID
NFR-R-01	Application will be able to handle multiple concurrent users without affecting its performance.	
NFR-R-02	Application will have an uptime of 99%	
NFR-R-03	Application will have offline access	

Performance

ID	Requirement	US-ID
NFR-P-01	The loading time for user to click the app logo to seeing their list will not take an unusual amount of time	
NFR-P-02	The loading time for any action within the app will not take an unusual amount of time	