Interview Analysis:

Similarities:

- User - Friendly / Intuitive design
- Offline capabilities (poor connectivity problems)
- Wishlist
- Main use would be mobile (phone)
- Store: album art, year, pressing data, producers, band members, artist contributors, track listing, genre, and record description
- Categorization by genre
- Search through your own music: main artist and album name

Differences:

- Frances: Folders / Playlists (?)
- Mark: multiple devices
- Frances: track more than just vinyl
- Frances: store: related artists
- Mark: default organization based on artist name
- Frances: default organization based on album name
- Frances: categorization by year, band members, album name, song name, recently played
- Frances: search through your own music: Song name and genre
- Frances: dream feature: allow multiple users on one account

User Scenarios:

<u>Timmy, a new collector</u>

Timmy recently started buying some records of his favorite band and wants to start collecting for other artists and bands as well. As he starts purchasing more records, he finds himself buying a record he already owns when he gets back home. As he does not want multiples of the same records, he goes out to attempt to return but his record store does not accept returns. Timmy wants to find a tool to be able to keep track of what records he currently owns to avoid spending more money than he has to.

While using our app, Timmy will be able to see exactly what record he has and can check for a certain record before he plans on his trips to the store. This will save him money because Timmy will now be able to ignore any records that he may have purchased.

<u>Mark, a baby boomer generation vinyl collector</u>

Mark loves collecting records. He and his best friend spend hours listening to and purchasing vinyl records. He wants to be able to easily track what he has already bought, but existing apps are confusing and glitchy. He has spent hours trying to figure out how to add his records to existing vinyl inventory trackers, but had little luck. Can he find an application that is intuitive and easy to use?

While using our app, Mark is able to quickly and easily add his records to his inventory. With buttons that are clearly labeled, and very few steps to add to your inventory, Mark is finally able to track his collection. This allows him to clearly see what he already owns, and buy new music with confidence.

<u>Frances, a record enthusiast with poor internet</u>

Frances enjoys using existing apps that help him track his records. He uses them as much as he can but he has a major issue with them. All of them require a steady internet connection to be able to access your list of records. When he heads into the store, his service shuts down and he is unable to access his list of records to avoid purchasing a record he currently owns. Can he find an application that allows offline access?

While using our app, Frances will be able to access his list of items without internet access. With no internet access required to view his list of items, he will be able to clearly see his list when his service or internet goes down and not have to worry.

User Stories:

"As a user, I want … so I can …"
"As a user, I want … to be able to …"
"As a user, I want … in order to …"

Title: Searching the record database

1. As a user who wants to explore more music by an artist I like, I want to be able to search the database by artist name so I can find all of the records they are credited on.

2. As a user who wants to know a band member's history, I want to be able to search the database by artist name so I can see all of the bands they have been members of.

3. As a user who loves a single song by an artist, I want to be able to search the database using the song title in order to find which records have the song on it.

Title: Adding a record to your inventory

4. As a user who just bought a new record with a barcode, I want to be able to scan the record's barcode with my camera in order to find the exact copy in the database.

5. As a user who just bought a new record that doesn't have a barcode, I want to be able to search the database by album name and see multiple pressings of the record in order to find the exact copy in the database.

6. As a user who has selected my purchased record from the database, I want to be able to add it to my inventory with the click of a button so I can have easy access to my updated inventory later.

Title: Searching through your inventory

7. As a user who has filled my inventory, I want to search my inventory using an album name in order to find my copy (or lack of) of the given record.

8. As a user who has filled my inventory, I want to search my inventory using an artist name in order to find which albums I own by the given artist.

9. As a user who has filled my inventory, I want to search my inventory using a song title in order to find which album I own that has that song.

Title: Viewing your inventory

10. As a user who has filled my inventory, I want to be able to see all my records organized alphabetically by album name in order to easily scroll through my entire inventory.

11. As a user who has filled my inventory, I want to be able to see all my records of the same genre so I can find music I am in the mood for.

12. As a user who has filled my inventory, I want to be able to see my records ordered by the artist's name so I can easily find all my music by my favorite artist.

Title: Viewing record information

13. As a user who wants to know more about a record, I want to be able to see the band members at the time of the recording so I can know who performed on the record.

14. As a user who wants to know more about a record, I want to be able to see all the non-band contributors so I can know who performed on the record.

15. As a user who wants to know more about a record, I want to be able to see pressing data so I can have a better understanding of the quality of the record I own.

16. As a user who has more information about the record I own, I want to be able to write down my notes on an album

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	