Section A5, Team 4

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Idea 1:

- Aggregating songs to BPM of pace (running)
    - Introduction: The brain loves patterns and synchronicity. Finding the right music can help run more efficiently as one subconsciously tries to keep up. Therefore, we want to help our users collect certain BPM songs by synchronizing their heart-rate/stride frequency during working out. Users can also choose the genre or singer they like.
    - High-level requirements
        - Database
            - User accounts: including user's profile and song preferences
        - APIs
            - Spotify
            - Pending research
                - Fitness tracking API
                - Google Maps API
        - 3rd-party authentication
            - Authy
            - Text-messaging
            - Duo
        - Decoupled architecture
            - Front end: JavaScript
            - Back end: Python/Java

Idea 2:

- Collecting YouTube playlists into Spotify/Apple Music playlists
    - Introduction: To avoid video interruption due to screen rest, we want to transfer the playlist from YouTube to Spotify/Apple Music.
    - High-level requirements
        - Database
            - User accounts: including user's profile
        - APIs
            - Spotify
            - YouTube
        - 3rd-party authentication
            - Authy
            - Text-messaging
            - Duo
        - Decoupled architecture
            - Front end: JavaScript
            - Back end: Python/Java

Idea 3:

- Grab the user's location and return a location-specific playlist and activities to do nearby
    - Introduction: When traveling, people always want to experience the local culture to its fullest potential. Finding the local music scene and activities to do is often a tedious and time-consuming task. Therefore, we want to help our users find and connect with users who have a similar music taste and to curate a to-do list to engage in the most popular activities and attractions close by.
    - High-level requirements
        - Database
            - Artists
            - Songs
            - Albums
            - Locations
            - Relationships between the fields above (e.g. the locations that artists are based in)
        - APIs
            - Spotify
            - Travel APIs (Viator APIs, GetYourGuide API)
        - 3rd-party authentication
            - Authy
            - Text-messaging
            - Duo
        - Decoupled architecture
            - Front end: JavaScript
            - Back end: Python/Java