Update notes:

- In our original submission, we only had 1 primary dataset so we lost a point in ***realness***. In this appended version, we added 2 more datasets.

Updated Stage 1 Submission:

1. ***Project Title:*** TimeConnect

2. ***Project Summary:*** A watch collector app that holds a database of watches/straps/parts that allows collectors to save their own collection, browse combinations/designs, track prices in the market, as well as share designs with other users for inspiration.

3. ***Description:*** An application that allows users to track their watch collection online, share their collections/ideas, and provide ideas to develop others collections. The purpose of the app is to connect different watch collectors together and build a more interactive community for them. Additionally, it also allows new watch collectors to gain ideas on how to build their collections from more experienced members in the community.

4. What would be a good creative component that can improve the functionality of your application?
   - Analytics and insights of users' watch collections (with interactive visualizations)
   - Real time price monitoring
   - Sharing designs, collections, wishlists with other users
   - Trend predictions of watches
     - Based on prices
     - Based on popularity in different locations

5. ***Usefulness***: Users will be able to use the app and filter their search results based on the brand, material used, popularity, etc to find the watch of their choice. From here, users will be able to add it to their collection, wishlist, or save it as a design along with a selected strap (with certain compatibility restrictions), and share it with other users. Also be able to see the price of the watch and track real-time price trends. On top of this, users will be able to put their watch collection into their passport protected account to keep track of what watches they own and what watches they do not own, allowing for an easy tracking system for their own watches. After doing a bit of research, there seems to be no other website/application out there that are similar to ours.

6. ***Realness***:

Our first dataset is from Kaggle which has over thousands of watch entries to use for our database.

- Data format: csv
- Cardinality: 163,000
- Degree: 10
- Information captured: Brand, Model, Reference Number, Complication, Case Material, Bracelet Material, Dial, Hour Markings, Bezel Material, Price

The second dataset contains recent web scraped marketplace listings from an online marketplace called chrono24.com. We found this public dataset on Kaggle as well. This would allow watch collectors to see the listings and availability of their wishlisted watches on the market.

- Data format: csv
- Cardinality: 45,000
- Degree: 23
- Information captured: Brand, Movement, Case Material, Bracelet Material, Year, Condition, Scope of delivery, Gender, Price, Availability, Shape, Face Area, Water Resistance, Crystal, Dial, Bracelet Color, Clasp, Watches sold by the seller, active listings, Fast shipper, Trusted seller, Seller reviews

The final dataset we are using is a dataset of watch brands that specifies all the mainstream watch brands with information about them that would be helpful to a watch collector.

- Data format: csv
- Cardinality: 51
- Degree: 23
- Information captured: Brand, HQ city, HQ country, year founded, founder name

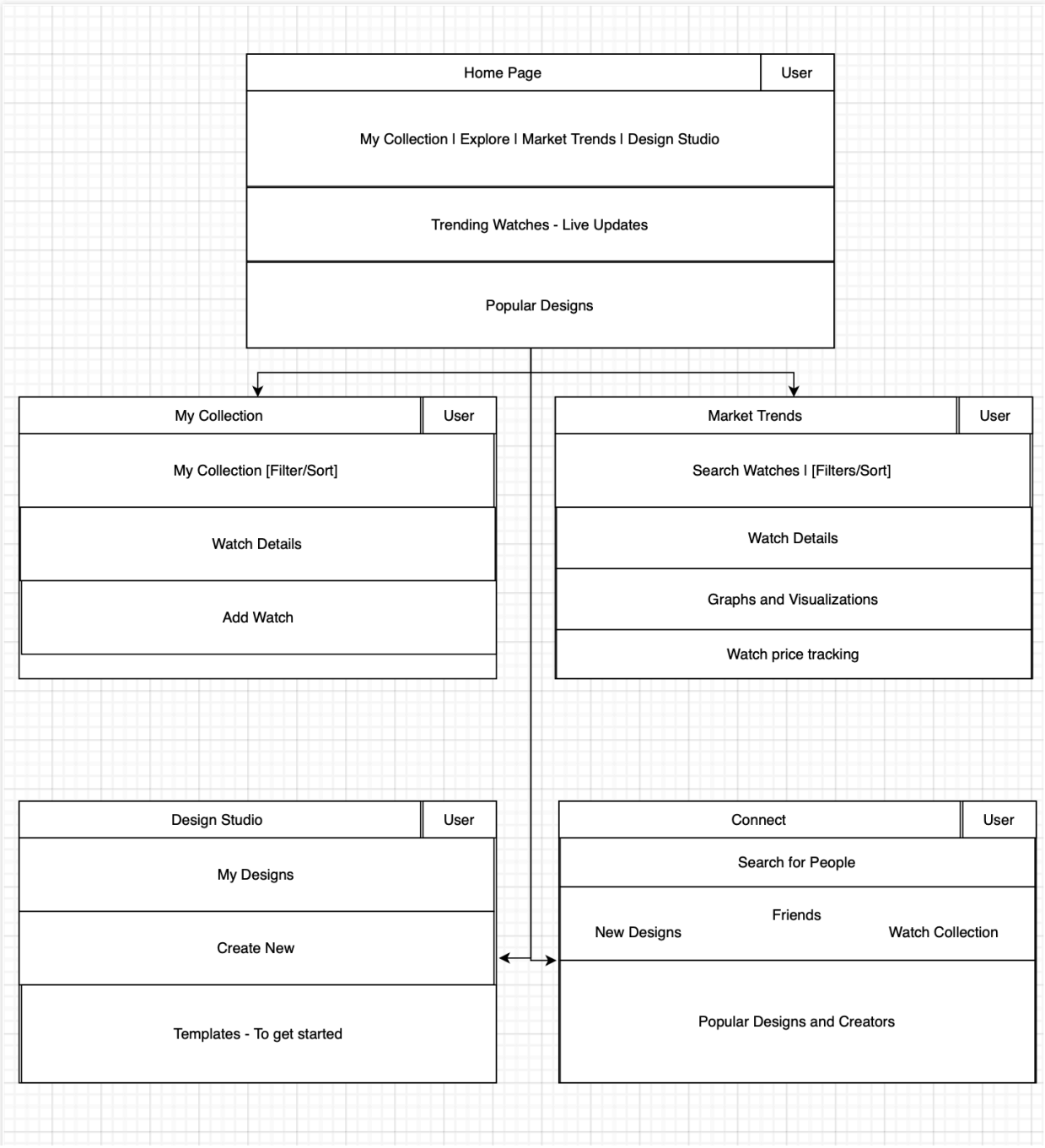
7. A detailed description of the **functionality** that your website offers. This is where you talk about what the website delivers. Talk about how a user would interact with the application (i.e., things that one could create, delete, update, or search for). **Read the requirements for stage 4 to see what other functionalities you want to provide to the users.** You should include:

Description of functionality:

1. Protected user login: username and password

2. After login, users can do the following:
    a. Collection
        i. View my watch collection: Shows watches added so far, along with interactive visualizations (insights, analytics)
        ii. View my strap collection: Same but for straps
        iii. Add/remove watch
        iv. Add/remove strap
    b. Wishlist
        i. View their wishlist
        ii. Add/remove items from the wishlist
        iii. Real time price tracker (API to show prices in the market)
        iv. Market trends and news (API)
    c. Design studio
        i. Create a combination of watches and straps: This would require the watch and strap entries to be joined
        ii. View the combinations
        iii. Outfit of the day: Selects a design based on your saved designs based on weather, occasion (connected to Google weather and GCal), as well as other saved preferences
    d. FriendConnect
        i. Share collection, wishlist, or design combinations with other users
        ii. Feed:
            1. Trending designs
            2. Other people's posts of watch collections/designs

A low-fidelity UI mockup:



Project work distribution:

Sohum: Interactive visualizations and analytics, Friend Connect
Ashit: Create/view collections, Design studio
Tony: FriendConnect, Wishlist
Rahul: Create/view collections, Wishlist, and API integration