Db design for StreetCred

There are two collections namely Users and Watchlists.
Under the Users collection, in a single UserId document there are common fields:

```
birth_year (number)
name (map)
   first_name (string)
   • last_name
                  (string)
watchlists (map)
   owned (array)
            (string)
   → 0
   subscribed (array)
            (string)
   → 0
and an other_user_info subcollection in which a single documents contains the following fields
            (map)
address
   • city (string)
   • country
                  (string)
```

```
(string)
  • street
  • zipcode
                (number)
annual_income
                (string)
citizenship_status
                      (string)
country_of_birth (string)
dob
     (string)
email_id (string)
employer_info
                (map)
  employer_address (string)
  • employer_name
                     (string)
  • job_title (string)
employment_status
                      (string)
funding
        (string)
```

investible_or_liquid_assets (string)

net_worth (string)

Under the Watchlists collection, in a single WatchlistId document there are common fields:

```
isDefault (boolean)
isDeleted (boolean)
isForked (boolean)
isPublished(boolean)
name (string)
stocks_list(map)

• 0 (string)

• 1 (string)

• 2 (string)
user_id (string)
```

and a sub collection called history which includes the history of actions made by the owner of watchlists.

The history subcollection contains the following:

Standard cases

- User logs in
- Users can create, update, delete, and read their owned watchlists
- Subscribers can either only read the sub watchlist or if they edit the watchlist then the said watchlist will be changed from subscribed watchlist to owned watchlist.
- Users can share owned watchlists with other users.
- Watchlists have a history feature which shows the actions related to watchlist made by the owner.

Edge Cases

- When the user deletes owned watchlist but the subscriber is still subscribed and is watching the same watchlist.
- When the user updates owned watchlist while the subscriber is reading it at the same time.
- If the watchlists should be downloadable or available offline.
- If the user adds the watchlist while the stock details are being updated.
- If the user deletes their account then the watchlists subscribed from that user must be either deleted or changed from subscribed to owned for the subscribers of that user.
- Amount of watchlists to be shown.
- Time zone and daylight saving.

Risk Mitigation

- Users must not be allowed to update anything related to payment.
- Users must not be allowed to manipulate the number of forks,watchlists and subscribers.
- Users must not be unsubscribed before confirming so after clicking on unsubscribe button.
- Subscribers must not be able to read watchlists not subscribed or owned by themselves.