ENSF 607

Advanced Software Development and Architecture
User Stories: Functional User Stories (10)

1. **User Sign-Up**
   - As a new user, I want to sign up for the Stock Recommendation System so that I can create a personal account and access investment recommendations.
2. **User Login**
   - As a user, I want to log in to the Stock Recommendation System so I can access my personalized investment recommendations and bookmarked stocks.
3. **Specify Investment Preferences**
   - As a user, I want to specify my risk tolerance (e.g., low, medium, high) and choose the types of assets I'm interested in (e.g., stocks, bonds) so the system can provide recommendations that fit my risk appetite and asset preferences.
4. **Select Regions and Stock Exchanges**
   - As a user, I want to specify my preferred investment regions (e.g., North America, Europe) and select specific stock exchanges (e.g., NYSE, NASDAQ) so the system can narrow recommendations to these areas and markets.
5. **Save Investment Preferences to Database**
   - As a user, I want my investment preferences to be saved in the database, ensuring that my profile remains available in future sessions.
6. **Generate Stock Recommendations**
   - As a user, I want the system to generate a personalized list of the top 5 stock recommendations based on my preferences so that I can make informed investment choices.
7. **Display Recommendations**
   - As a user, I want to view the recommended stocks immediately after setting my preferences on the same page, so I can quickly access personalized suggestions.
8. **Bookmark Recommended Stocks**
   - As a user, I want to bookmark stocks from the recommended list that I find interesting so I can revisit and evaluate them later.
9. **View Bookmarked Stocks**
   - As a user, I want to view all of my bookmarked stocks in a dedicated section, so I can keep track of the investments I'm interested in.
10. **Update Investment Preferences**
    - As a user, I want to be able to update my investment preferences to explore new stock recommendations based on my latest criteria.

Non-Functional User Stories (5)

1. **Data Security**
   - As a user, I want my personal data and investment preferences to be securely stored and transmitted to protect my information from unauthorized access.
2. **Cross-Device Accessibility**
   - As a user, I want to access the Stock Recommendation System on various devices (desktop, tablet, and mobile) so I can use the service conveniently from anywhere.
3. **High Availability**
   - As a user, I want the system to be highly available and reliable, minimizing downtime and ensuring that I can use it whenever I need to.
4. **User-Friendly Interface**
   - As a user, I want the system's interface to be simple, intuitive, and easy to navigate, so I can quickly understand how to use all of its features.
5. **Data Integrity**
   - As a user, I want my investment preferences and bookmarked stocks to be stored accurately in the database so that my selections remain consistent and unaltered.