

SECTOR BASED TRADE RECOMMENDATION SYSTEM

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Problem Statement: To construct a trade recommendation system based on user-selected sectors (from Nifty stocks).

Scope:

The scope of this project is -

- We have considered 100 Nifty stocks to recommend best five stocks from each sector.
- Best five stock's statistics are presented based on information from the previous two weeks.
- The technology enables users to save recommendations, which they can access at any moment in the future.
- We give users the option to add their favourite stocks to a customised watch list. The user has constant access to the live, dynamic data.

Functionalities:

The functionalities includes –

- **Login** : By using their username and password, users can log in to the system.
- **Recommendation** : The home page displays a set of recommendations on the basis of past two weeks performance of the stocks
- **Search Recommendation**: User can search for any sector he wants.
- **Save Recommendation** : The add button enables users to save any sector stocks that are suggested.
- **Watchlist** : The user can monitor the saved stocks in the watchlist.
- **Remove from watchlist**: If a user decides they are no longer interested in a stock, they can remove it from their watchlist.
- **Logout**: The application will automatically reroute the user to the login page if the user chooses to logout at any moment.

Assumptions:

The assumptions are –

- We have considered this formula to get the percentage of gain over the time duration.

$$\frac{\text{High(Today)} - \text{high(2 weeks ago)}}{\text{High(2 weeks ago)}} \times 100$$

Technology Stack:

The technologies used are –

- Angular 14 (Front-end)
- Spring framework (Back-end)
- MongoDB (database)