

Made in Thailand p01 Design Document

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Stock Visualizer Platform - XEA-69

(X Ash A Sixty-Nine)

Overview

We are making a website that allows users to view real-time information about any stocks the user wants to see. Similar to the stocks app, users can create a list of stocks of their choosing by adding specific stocks. We will also allow users to organize displayed stocks by topics, such as stocks that have increased/decreased the most during that day, high-volume stocks, and tech stocks.

Components

- User accounts
 - Be able to create new accounts
 - login/logout and keep user sessions
 - User account info is stored within database
 - Main route that allows users to view and search all the stocks
 - Users can add stocks to their watchlist for the stocks they want to track.
 - Be able to remove and add any stock of choosing
 - Route to these watchlists
 - Buttons that filter stocks:
 - **ALL**: Displays all stocks
 - **GAIN**: Displays stocks that gained value
 - **LOST**: Displays stocks that lost value
 - **ACTIVE**: Displays most active stocks
 - **TECH**: Technology stocks with the most revenue
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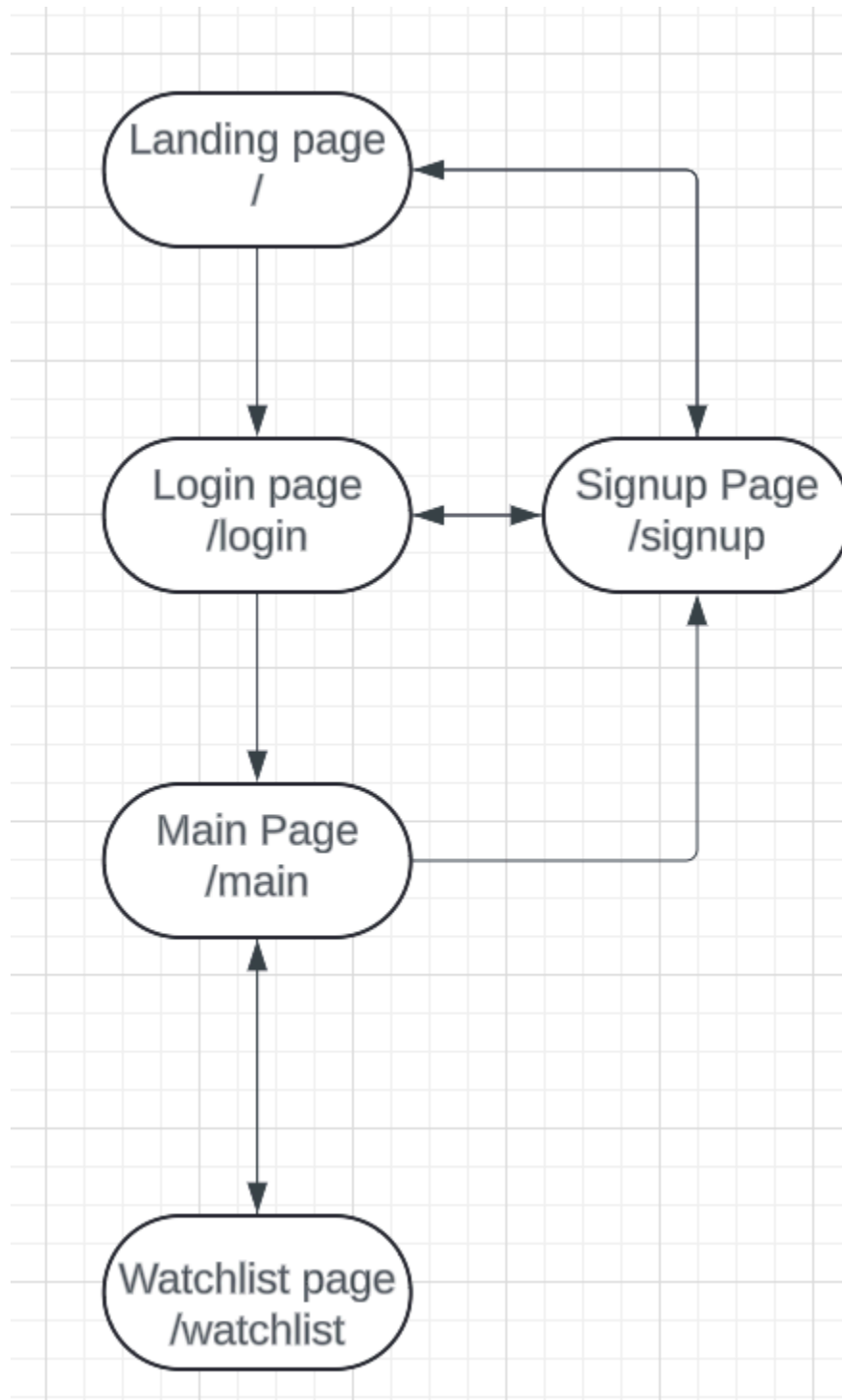
Component Relationships

- User must be logged in to add to their watchlists
 - Route to a landing page where the user can sign up/log in
 - Once logged in, user is on a homepage for all stocks
 - Buttons to filter stocks
 - Ability to add stocks to watch lists with one click
 - Route to user's watchlists
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Component Relationships Visualization



Site Map



Database (xaea69.db)

Tables

users:

id	username	password
#	TEXT	PYBYTE

tickers:

ticker	name	last_sale	net_change
TEXT	TEXT	TEXT	TEXT

filters:

id	name	filter
#	TEXT	TEXT

watchlists:

username	ticker	name	last_sale	net_change
TEXT	TEXT	TEXT	TEXT	TEXT

username REFERENCES users(username)

holidays:

name	date
TEXT	TEXT

APIs

- YH(Yahoo)Finance
 - This API provides access to information about finance and about stocks, providing real time market data, historical stock prices, etc.
 - We utilize this API to provide the data that will be displayed within XEA-69.
 - AdviceSlip
 - This API provides the user with random slips of advice.
 - We use this API to offer (unrelated) life advice to the user before they decide to purchase or watch a stock.
 - Calendarific
 - This API provides worldwide holidays and the dates for them.
 - We use this API to help the user identify upcoming holidays and allow them to take into consideration holidays when observing stocks.
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Front-end Framework: Tailwind

- Utilize tailwind for buttons in user interface, toggle between light and dark mode, page sections, and prebuilt page designs.
 - This will ensure consistent design.
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TASK ASSIGNMENTS

TASK	Wen Zhang	Daniel Park	Danny Huang	Sasha (Alex) Murokh
Setting up Python, SQLite3, and Tailwind environments.	X	X	X	X
User Authentication	X	X		
Watchlists		X		
Button Filters		X		
Holiday API	X			
Advice API	X			X
Front-end (HTML)			X	
Front-end (CSS + Tailwind)			X	
DB Lead		X		
Final Testing and Bug Fixing	X	X	X	X