

Albert Wan, Biraj Chowdhury, Lauren Pehlivanian, Brandon Chen

Period 9

Project 01: News Site

Team: Mayonnaise

Components:

Home Page: The home page will contain information on current news, weather, sports scoreboards (both college and professional), stock prices, and currency exchange rates.

Tabs:

- By clicking on this, the user will be shown a sub-page of our site that will display more information on that panel. For example, the user can search for past weather data and
- Weather: On the tab, there will be weather information. This will include a 7-day forecast and some simple information like precipitation for each day. Before the user logs in, there will be no information displayed until the user chooses a city. Once logged in, the city the user chooses will be stored so that next time they log in, weather information for their city will automatically load.

APIs: MetaWeather API

Databases: Find user's individual table and use data from each entry that contains "weather-location" in the area field. Use the preference field in that entry to find a location the user has saved.

- Sports Scoreboards: On this tab, there will also be sports scoreboards from a variety of sports and teams. Without logging in, the scoreboards will just show top or more recent scores. Once logged in, the user can choose sports or teams they want to follow, and the scoreboard will display those recent scores.

APIs: My Sports Feeds API

Databases: Find user's individual table and use data from each entry that contains "sport" or "team" in the area field. Use the preference field in that entry to find a sport/team the user has saved.

- Stock prices: There will be an area on this tab with current stock prices. If the user clicks on the stocks tab, they will be redirected to a sub-page with more detailed stocks information and news. Without logging in, it will show top or notable companies. Once logged in, the user can choose tickers to add to their list, and the stocks panel will show prices of their stocks.

APIs: World Trading Data API

Databases: Find user's individual table and use data from each entry that contains "stock" in the area field. Use the preference field in that entry to find a stock the user has saved.

- Currency Exchange Rates: Lastly, on this tab, the page will display some currency exchange rates based on a base currency. If the user is logged in, they can specify and save a preferred base currency. If not, it will default to USD.

APIs: Exchange Rate API

Databases: Find user's individual table and use data from each entry that contains "currency" in the area field. Use the preference field in that entry to find a currency the user has saved.

Main (center) panel:

- News: The page will display top articles from today. In order to be balanced, it will display conservative articles on one side, and liberal ones on the other. This way, the user can see what news topics and headlines each side cares about. The user can also indicate preferences (like topics, countries, etc.) for the site to display in addition to top headlines.

APIs: Google News API

Databases: Find user's individual table and use data from each entry that contains "news-topic" in the area field. Use the preference field in that entry to find a topic the user has saved.

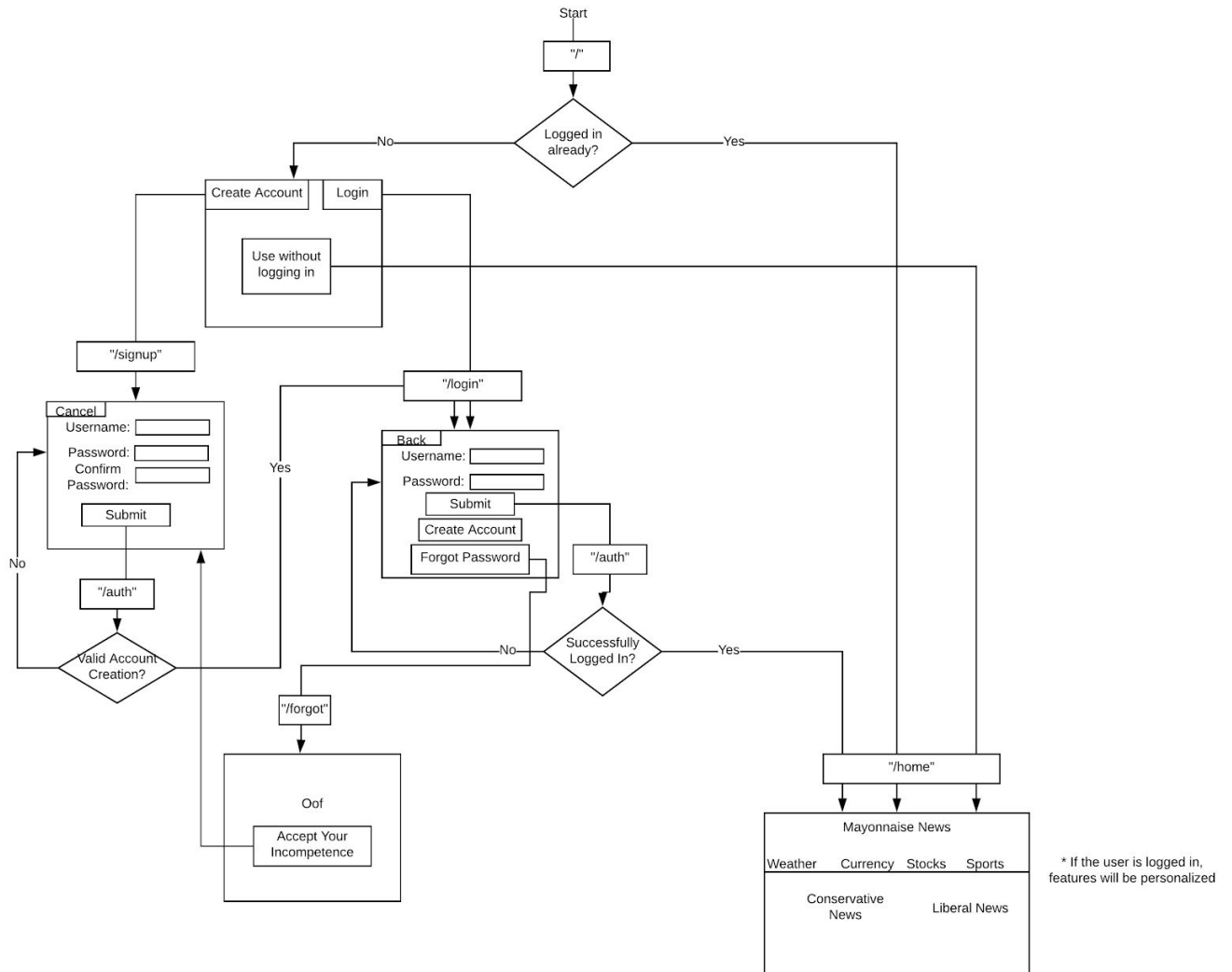
Choosing user preferences:

- On each tab, the user will be able to select preferences for that area by using a search bar or dropdown menu on the tab.

APIs

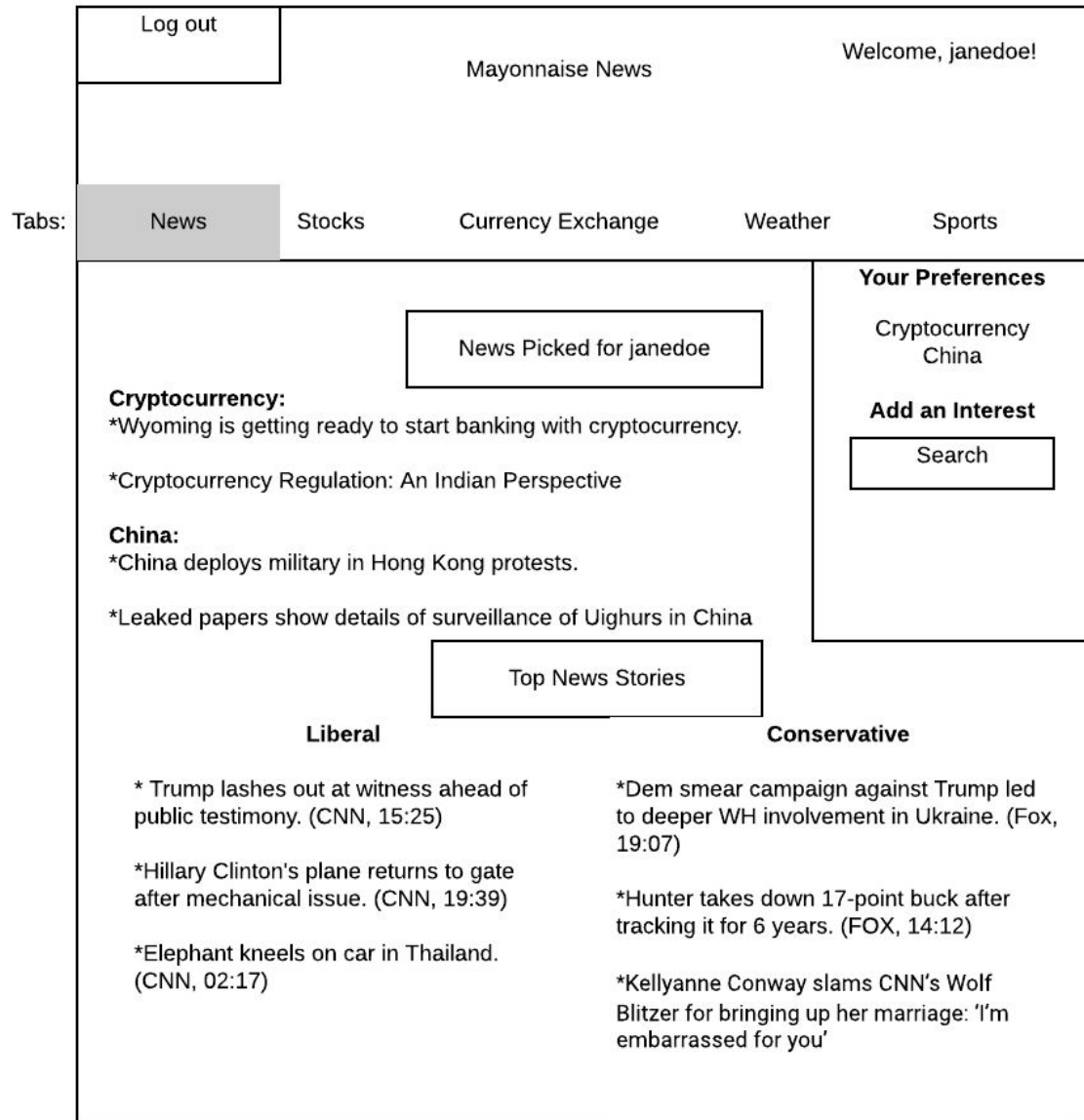
Name	Link	Key
Google News	https://newsapi.org/s/google-news-api	4ba270d537ab4112a9a5b3d88bac6bb0
MetaWeather	https://www.metaweather.com/2459115/ https://www.metaweather.com/api/	No key required
Exchange Rate	https://api.exchangerate-api.com/v4/latest/USD	No key required
World Trading	https://www.worldtradingdata.com/home	IFCiLvgdZRMew4GeMH7BfDoGU8CYtkA8AlXqb4rwWXCmTrk8fg9ytnyc0DCG
My Sports Feeds	https://www.mysportsfeeds.com/data-feeds/api-docs/	70fd0946-87d0-44ec-9e65-a5e421

Site map:



Component Diagram:

“/home”, News tab:



Database Layout Diagram:

Users table

Username	Password
----------	----------

johnsmith	tree123
janedoe	shrub13

Each user's individual table:

Table: janedoe

Area	Preference
news-topic	cryptocurrency
stock	Disney
sport	baseball
team	Toronto Raptors
news-topic	China
weather-location	New York
base-currency	USD

Table: johndoe

weather-location	San Francisco
news-topic	international

Since johndoe hasn't specified preferences for sports, currency, or stocks, top results will be displayed rather than anything specific to the user.

Roles: (See components above for more detailed descriptions)

- 1. Login and Users:** Albert
- 2. Database:** Brandon
- 3. News:** Lauren
- 4. Sports:** Biraj
- 5. Currency Exchange:** Albert

6. **Stocks:** Brandon
7. **Weather:** Lauren
8. **Foundation CSS:** Biraj
 - a. Make the tabs on the homepage.