Team "Used Lancer Evo" 's Design Document

Project Manager: _Giovanni_

Front-End Meister: _Edmond_

Back-End / Flask: _Sachal & Henry_

"I think we can look up drop down menu of different genres on different news things and um just kinda list just top articles for different genres or whatever, so we can have different tabs like sports tabs and then we can have a weather tab" - Gio

Version 1.0: Simple site with two pages.
- One displays the week's weather using **Dark Sky API**
- The other displays recent headlines and links to the full article using **NewsAPI**.

Version 2.0:
- Users can refine search based on news categories such as sports or business as well as news sources

API's Used

1) **Dark Sky API:** https://darksky.net/dev/docs
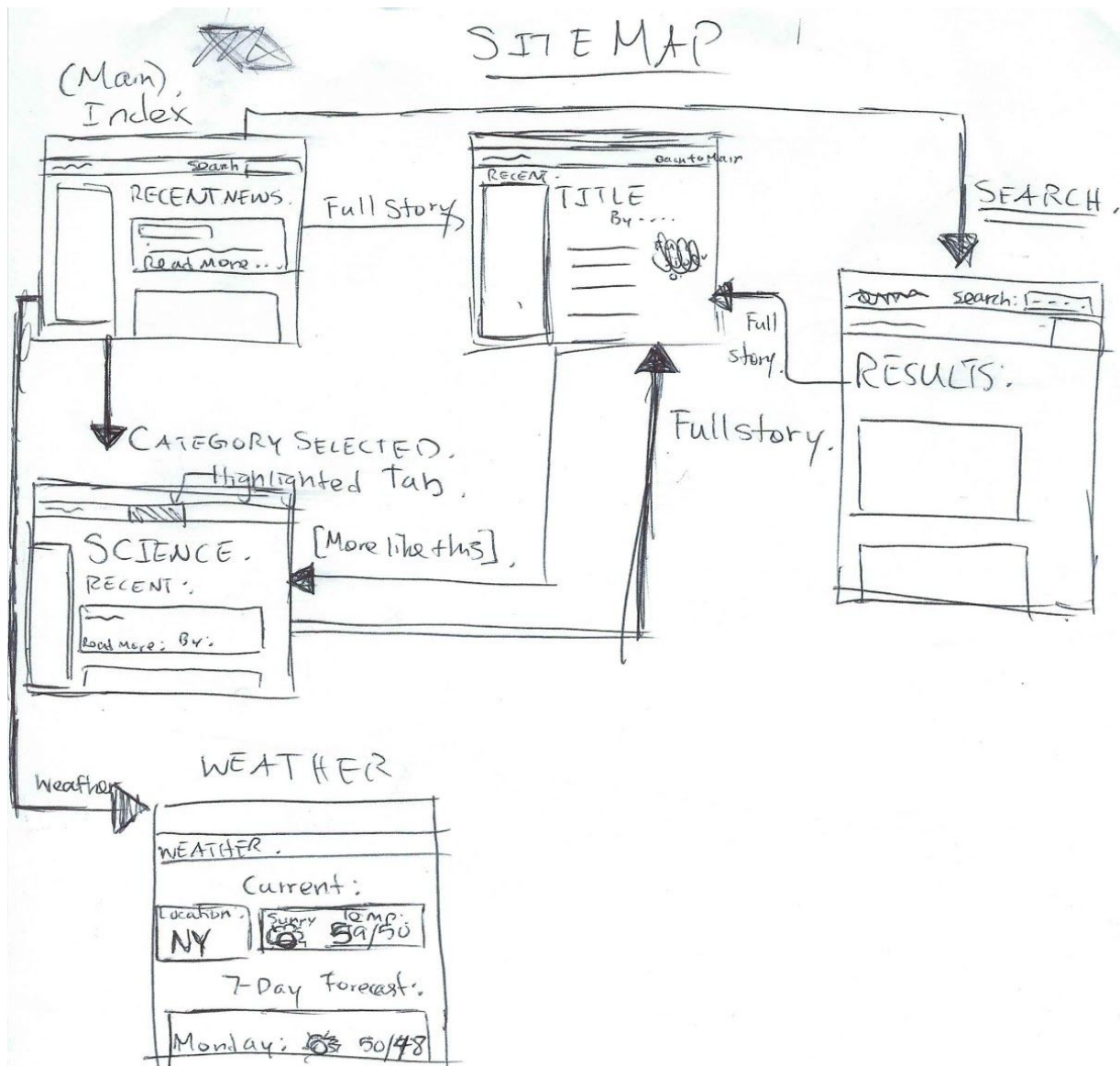   - The Dark Sky API allows you to look up the weather anywhere on the globe, returning (where available):
     - Current conditions
     - Minute-by-minute forecasts out to one hour
     - Hour-by-hour and day-by-day forecasts out to seven days
     - Hour-by-hour and day-by-day observations going back decades
2) **News API:** https://newsapi.org/
   - The News API allows you to access the headlines of n array of news sources according to a number of parameters. It returns a dictionary containing various headlines including links to the full articles.
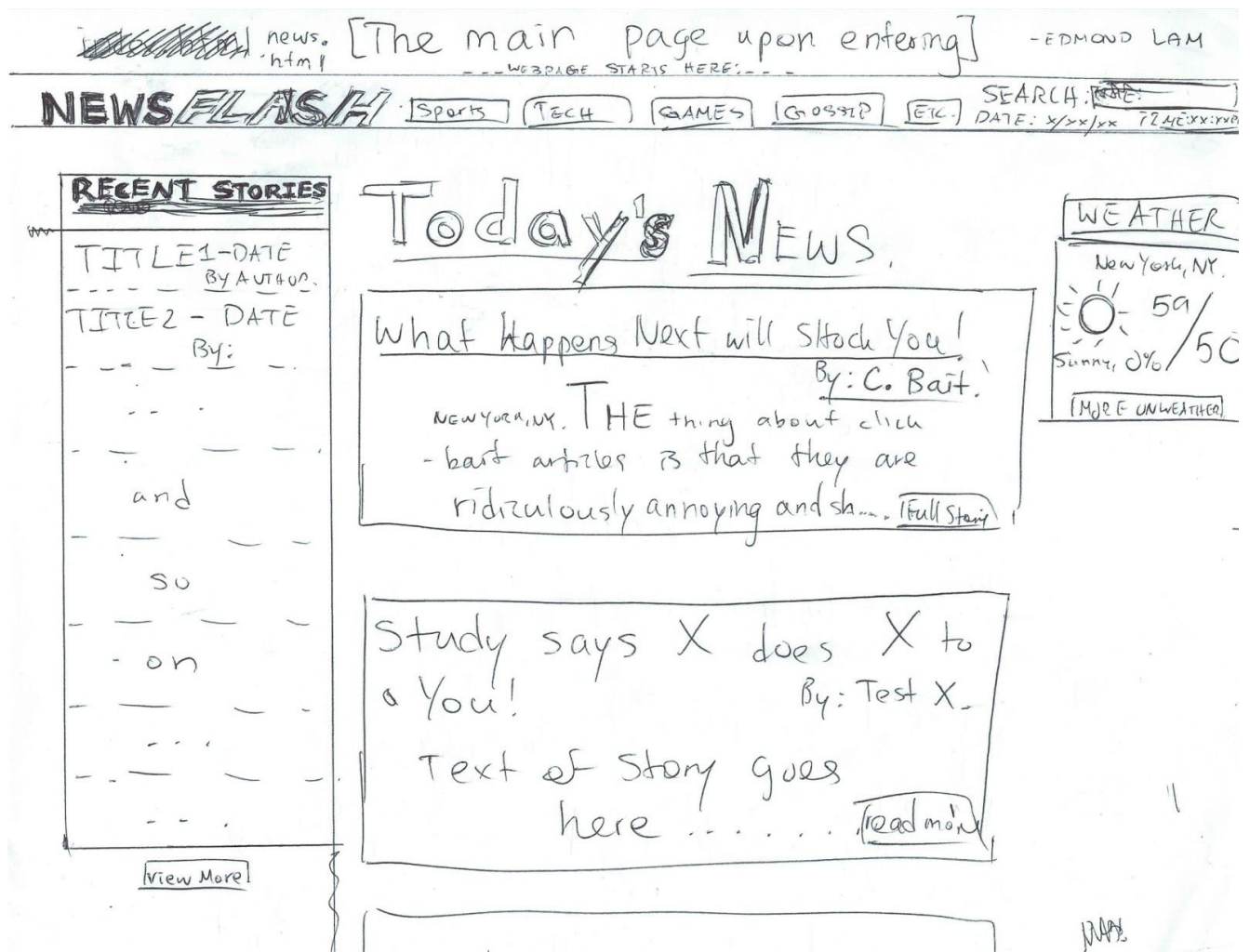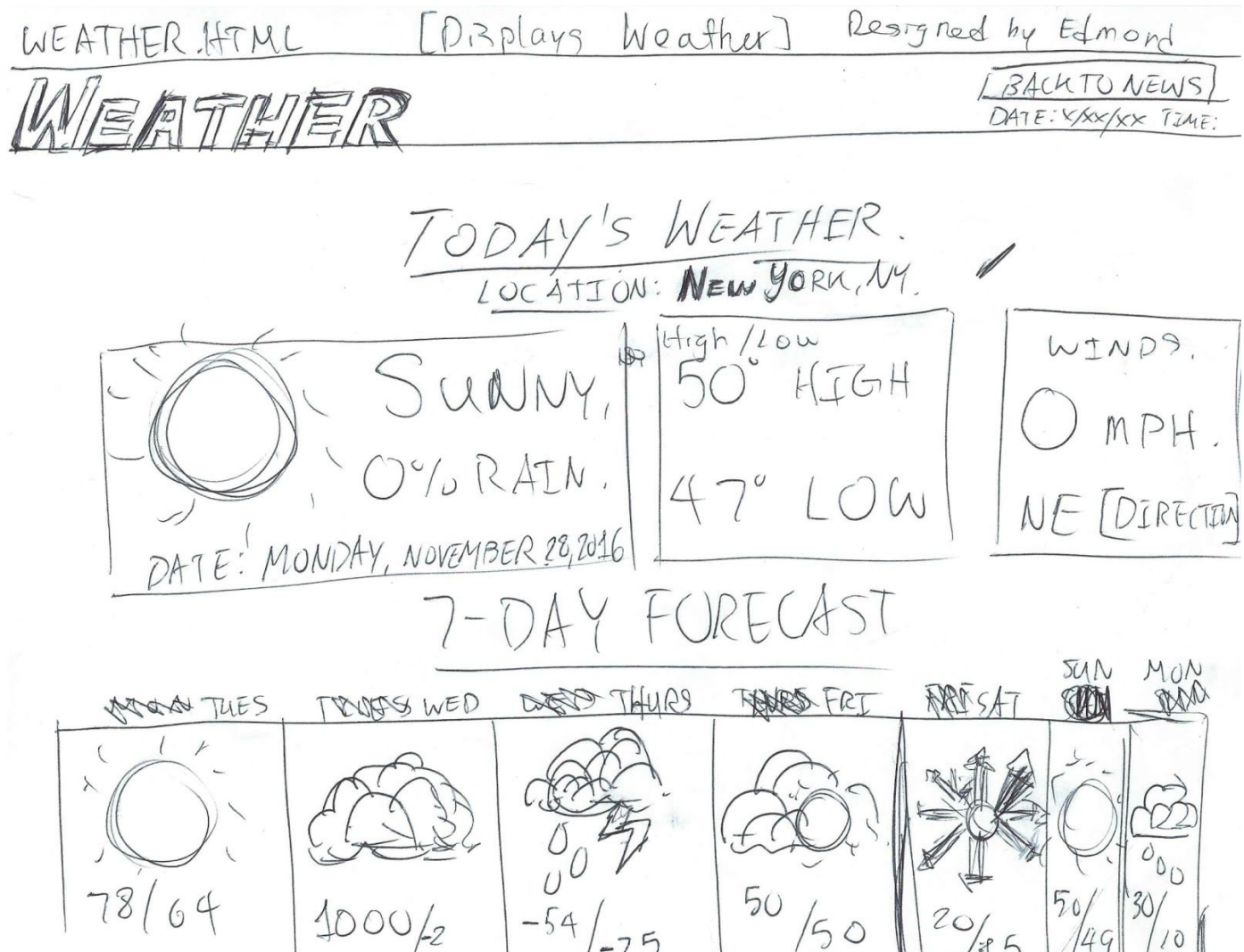
Frontend - Edmond:

Sitemap:

SITEMAP

(Main) Index

Search
RECENT NEWS.
Read More...

Full Story

RECENT TITLE
By...
Back to Main

SEARCH.

search:
RESULTS.

CATEGORY SELECTED.
highlighted Tab.

Full story.

Fullstory.

SCIENCE.
RECENT:
Read More: By:

[More like this],

Weather

WEATHER

WEATHER.
Current:
Location: NY   Sunny   Temp. 59/50
7-Day Forecast:
Monday: 50/48

Pages:

1) Index.html - Displays the main page, or the news frontpage. Displays the titles of the most recent news as well as the news for today. Each article in the 'today's news' section has a preview and a link to a full post. It also displays the weather (and the link to the full forecast).

2) Weather.html - Displays the current weather in your current
location and also the 7-day forecast.

Backend - Sachal/Henry:

Our phase-1 implementation is not going to utilize any information as
we are not going to be storing any user information.

Major Function-Assigned to Sachal

    1) **Pull10(category)**
        a) This will take a category as a string, science, sports, political and return the most recent 10 articles that the news app spits out in these categories. It will return a list of the 10 articles desired.

(Will communicate with front end developer to make sure the data can be displayed correctly)

Major Functions-Assigned to Henry

    1) **GetCurrWeather()**
        a) Gets current weather in current location, displays it
    2) **Get5dayWeather()**
        a) Gets 5 day weather forecast.

(Will communicate with front end developer to make sure the data can be displayed correctly)

Backend Components:
- App.py with FLASK
- Utils: news.py, weather.py

news.py handles the functions of the news object which is used to store information for each news article in a single object

weather.py reformats the weather data and sends it to app.py, which gives it to a template to display the weather in a separate route