

# DEFENSE PRESENTATION FOR WETHITE

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Major: Cybersecurity

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# STATEMENT OF PURPOSE

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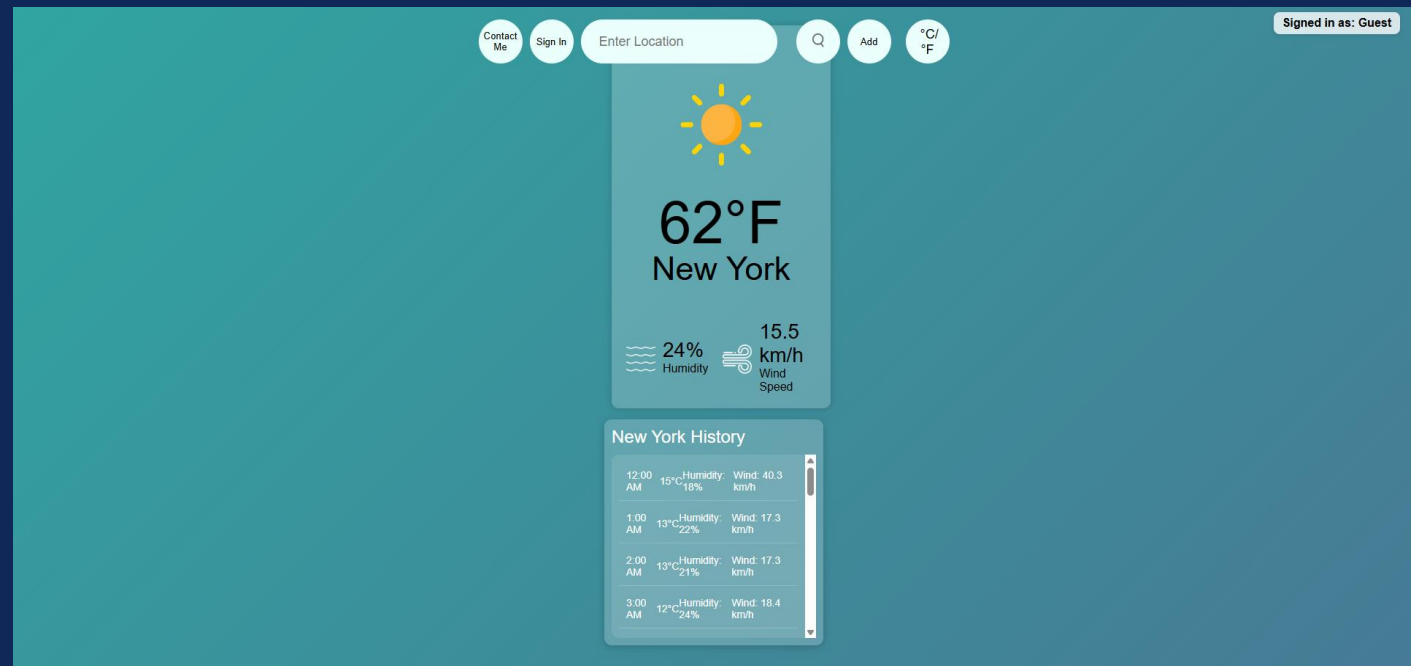
This project will develop a website that aggregates data from multiple weather APIs to give a better and consistent forecast, which will help the users plan their day accordingly.

## RESEARCH AND BACKGROUND

- Forecasts help people plan and dress appropriately.
- Weather is unpredictable and sources often disagree.
- Single-source forecasts can cause discomfort or illness.
- Most weather apps rely on one API.
- Combining APIs improves accuracy and reliability.
- This project creates a site that merges multiple forecasts.

# PROJECT IMPLEMENTATION

- Live Demo
- <https://wethite-5140b.web.app/>



# PROJECT LANGUAGES, HARDWARE, AND SOFTWARE

## Languages

- JavaScript,
- HTML
- CSS

## Hardware

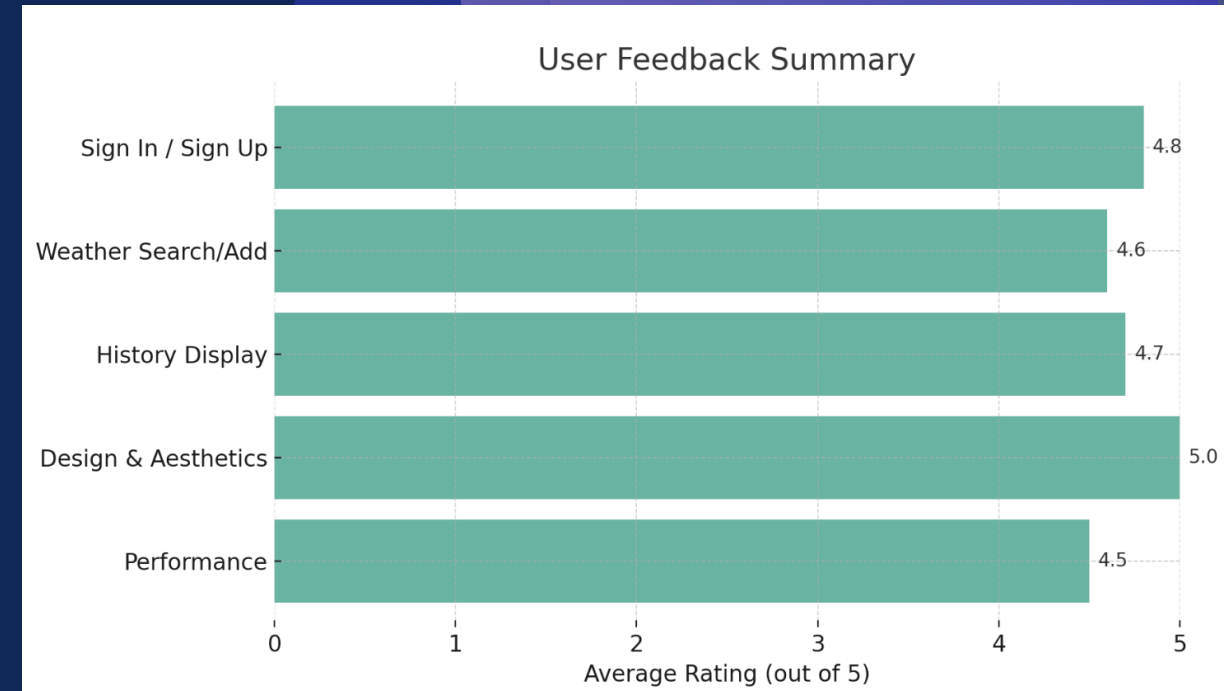
- HP Envy Laptop

## Software

- Visual Studio Code
- VS Code Extensions (Live Server)
- Command Line/Powershell
- Firebase
- Firebase Firestore
- Firebase Authentication
- Weather APIs

# TESTING RESULTS

- Feedback is positive on average
- Easy navigation and interaction
- Helpful login/logout flow
- Requests for more theme options
- A few suggestions for the UI



# CHALLENGES OVERCOME

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- Finding reliable weather APIs
- Implementing user authentication
- Ensuring user-specific weather data is saved and loaded correctly
  - Creating a dynamic weather/history card system



# FUTURE ENHANCEMENTS

- Music
- More fluent weather displays
- Mobile functionality
- Weather shown based on current location
- More account features like notifications
- More security features like MFA.
- Air quality display
- Color Customizations



# THANK YOU

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Any Questions?