



APP EXPLORATIONS

sky Cast

Designed by
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INTRODUCTION

"Sky Cast" is a streamlined weather forecasting app designed to deliver accurate and current weather updates. Utilizing HTML, CSS, JavaScript, and Bootstrap, along with data from OpenWeatherMap API, this app helps users plan daily activities and weekend outings with ease. Featuring a straightforward interface with Home, About, and Contact pages, "Sky Cast" ensures easy access to essential weather information, making it an indispensable tool for day-to-day planning.

PURPOSE

The primary purpose of "Sky Cast" is to provide users with real-time, accurate, and easy-to-understand weather forecasts. This application aims to enhance daily planning and decision-making by delivering current weather conditions and predictions directly to users. By entering a city name, users can instantly receive a detailed weather report that helps them prepare for their day or plan upcoming events with more precision, especially for outdoor activities. "Sky Cast" intends to simplify the process of obtaining weather information, making it accessible to users with varying levels of technical expertise.

SCOPE

1. Functional Scope:

User Interface:

- **Home Page:** Features a clean and user-friendly interface with a navigation bar, an input field for city names, and a "Get Weather" button. Upon submission, the page will display weather information or an error message if the city is not recognized.
- **About Page:** Provides background information about "Sky Cast," including its development, purpose, and utility.
- **Contact Page:** Includes a form where users can enter their contact information and inquiries, enhancing user engagement and support.

Weather Data Display:

- The app will show essential weather parameters such as temperature (in Celsius), wind speed, humidity levels, and a general description (e.g., sunny, rainy) along with a corresponding icon or emoji to visually represent the weather condition.

Integration with OpenWeatherMap API:

- Fetches real-time weather data by interfacing with the OpenWeatherMap API, ensuring that the information is up-to-date and accurate.

2. Technical Scope:

Technologies Used:

- **HTML:** For structuring the web pages.
- **CSS and Bootstrap:** For styling and responsive design, ensuring that the app is accessible on various devices including desktops, tablets, and smartphones.
- **JavaScript:** For dynamic interactions on the web pages, handling API requests, and updating the UI with fetched data.

Responsiveness and Accessibility:

- The design will be responsive, providing an optimal viewing experience across different devices and screen sizes.
- Accessibility features will be considered to ensure that users with disabilities can also utilize the app effectively.

Error Handling:

- Robust error handling to manage scenarios where the city is not found in the API's database or when there are issues with network connectivity.

TECHNIQUES USED

HTML Elements:

html, head, body, meta, title, link, nav, div, a, ul, li, button, form, label, input, span, script

CSS:

class selector, ID selector, pseudo-classes, keyframe and bootstrap properties

javaScript:

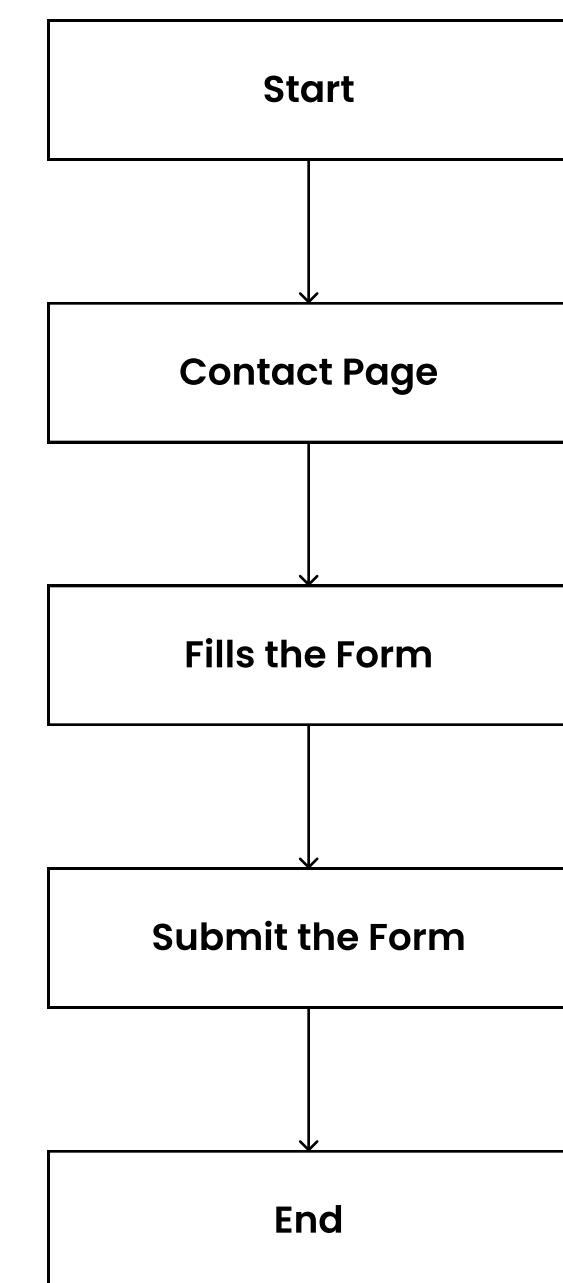
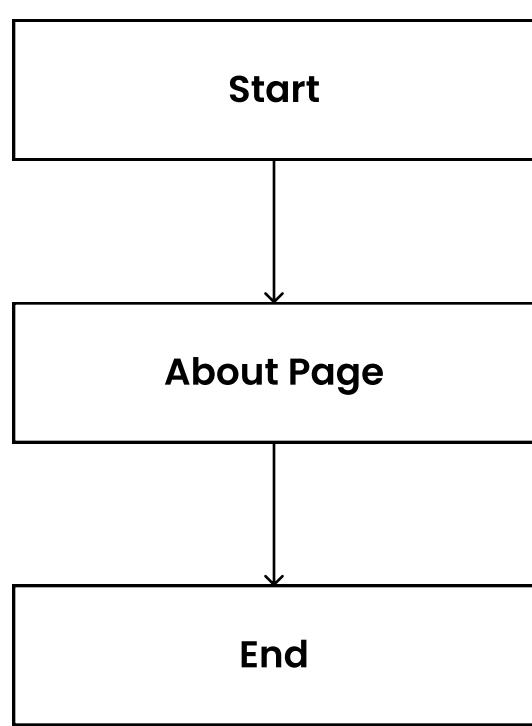
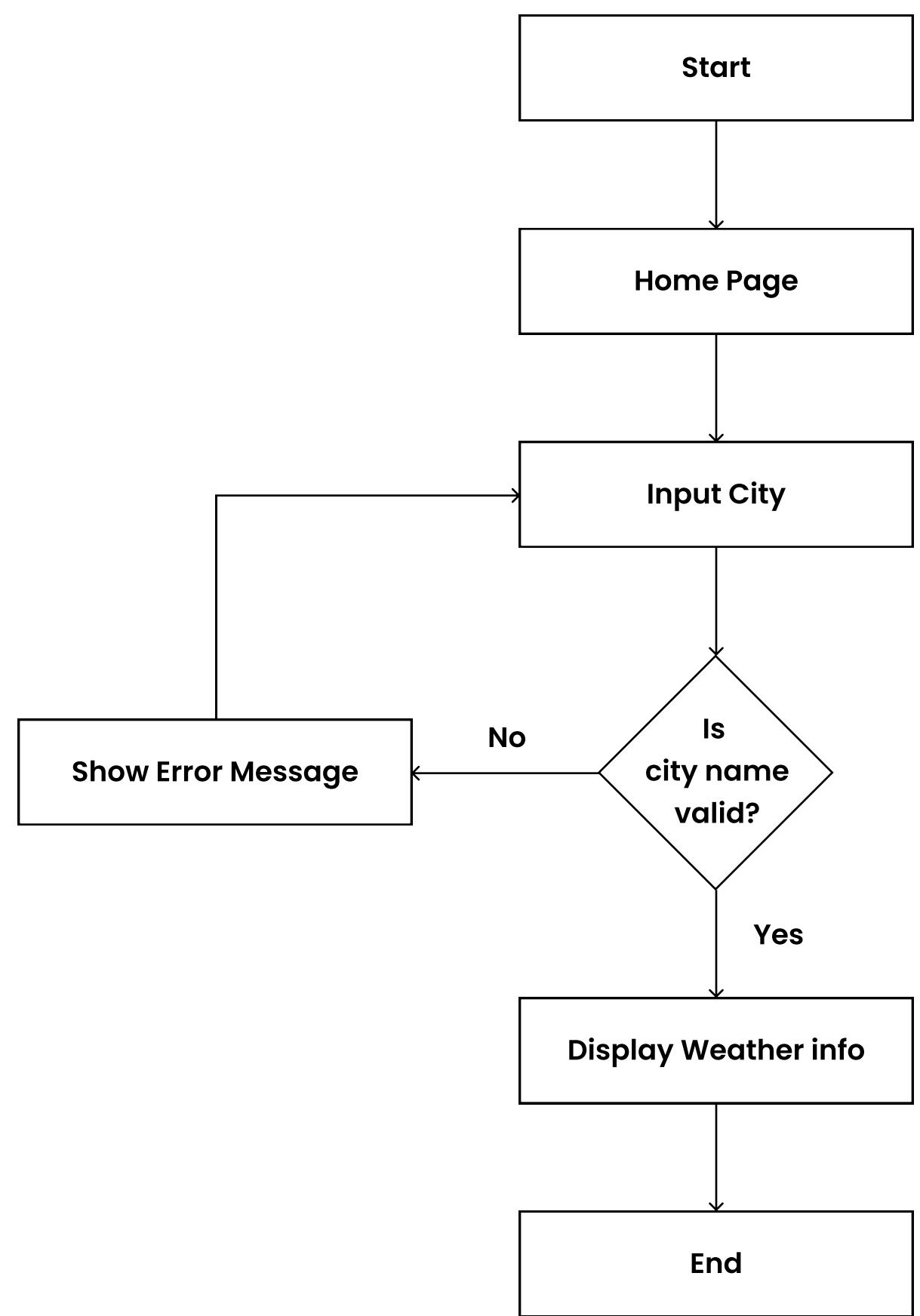
API Interaction, Template Literals, Promise Handling, DOM Manipulation, Event Handling, Error handling, conditional logic, String manipulation, Class management

FUTURE ENHANCEMENTS

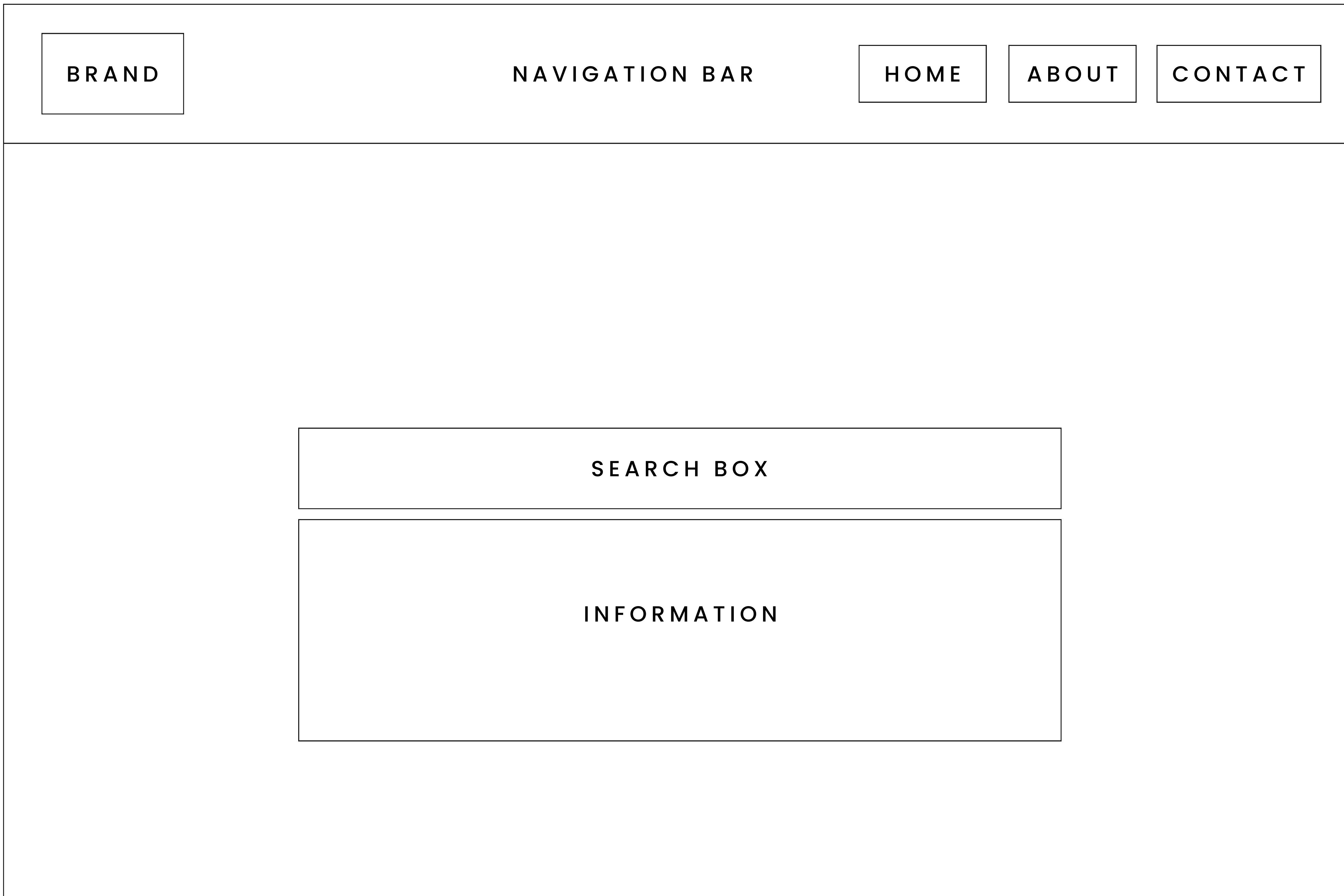
- Extended forecasts (e.g., 7-day, 10-day forecasts).
- Notifications for severe weather alerts.
- Weather by country.

APPLICATION FLOWCHART

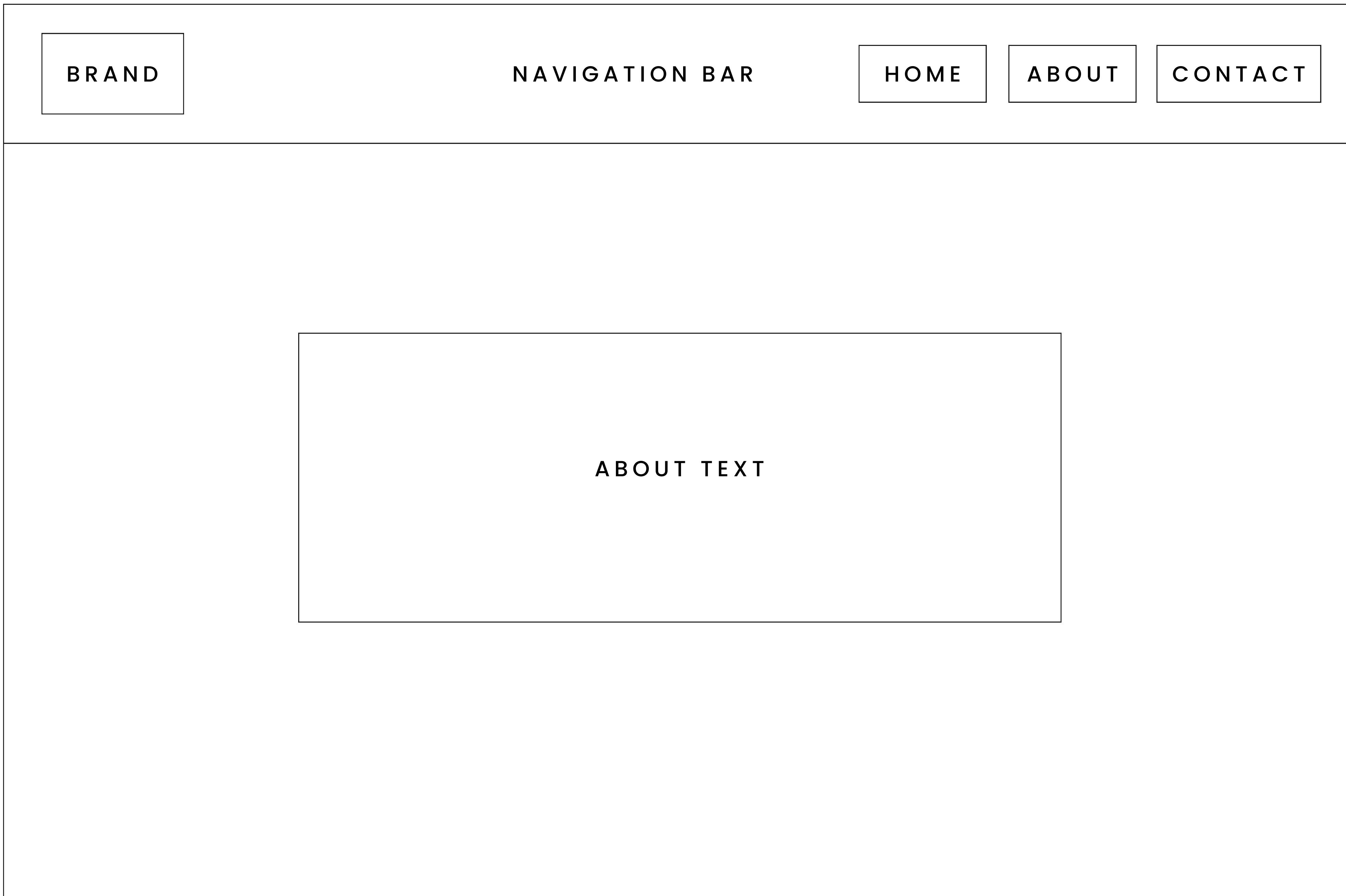
A very simple and a familiar information flow across the application helps users navigate and adapt easily.



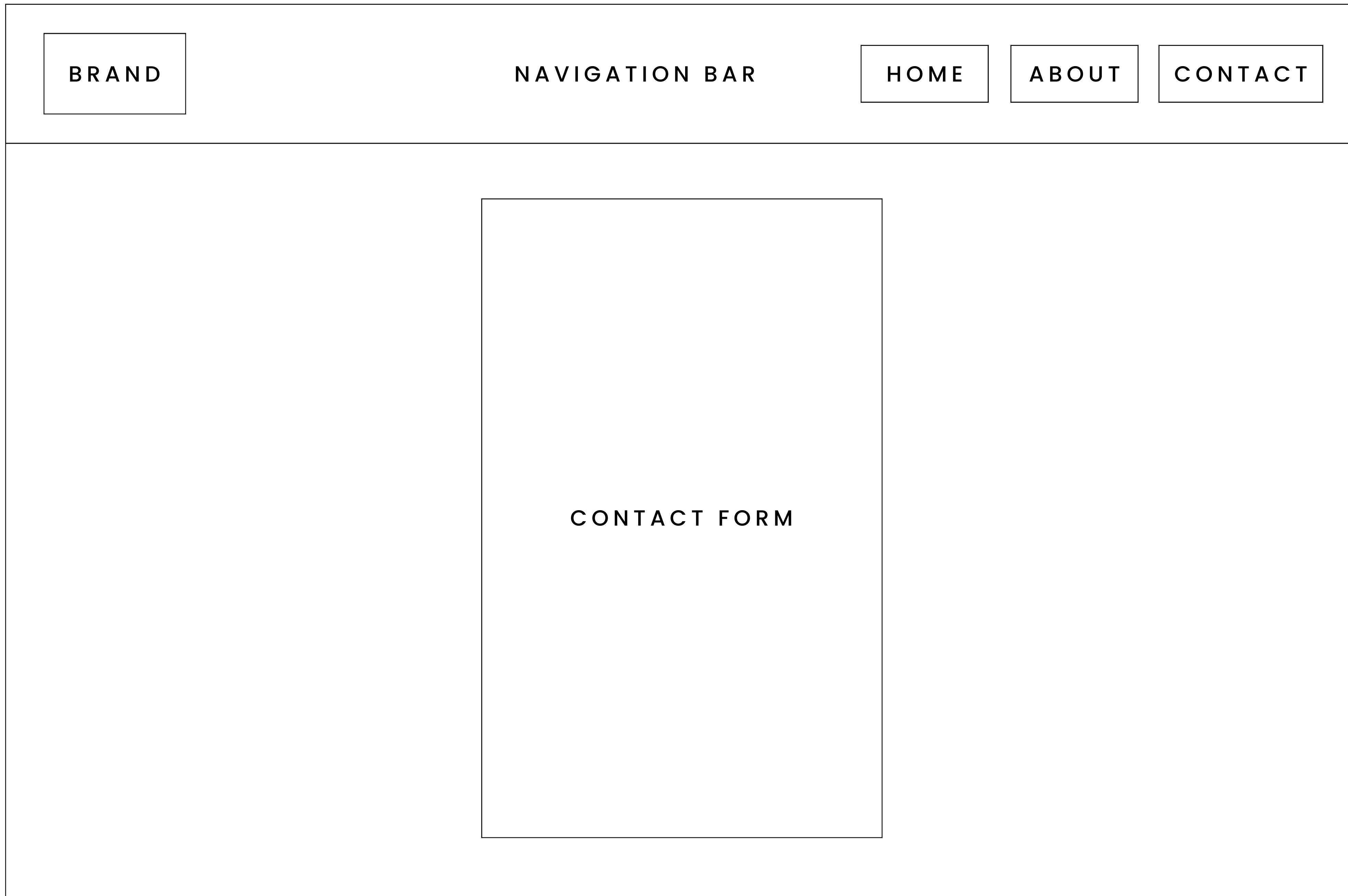
SKETCH



SKETCH



SKETCH



Sky Cast

Auckland, NZ

17.4 °C

Wind: 6.69 km/h

Humidity: 67%

Description: Overcast Clouds



About Sky Cast

Welcome to Sky Cast, your go-to destination for accurate and up-to-date weather forecasts. Whether you're planning a weekend getaway or just want to stay informed about the weather in your area, Sky Cast has you covered. Our team of meteorologists works tirelessly to provide you with the most reliable weather information, so you can make informed decisions about your day. Join us as we explore the skies and bring you the latest weather updates, right at your fingertips.

Contact Sky Cast

Name

Email address

Mobile Number

Message

Sky Cast

Auckland

Get Weather

Sky Cast

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Get Weather

Auckland, NZ

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Submit