

React&Redux: Weather App

НАШИ ПРАВИЛА



Включенная камера



Вопросы по поднятой руке



Не перебиваем друг друга



Все вопросы, не связанные с тематикой курса (орг-вопросы и т. д.), должны быть направлены куратору




Подготовьте свое рабочее окружение для возможной демонстрации экрана (закройте лишние соцсети и прочие приложения)

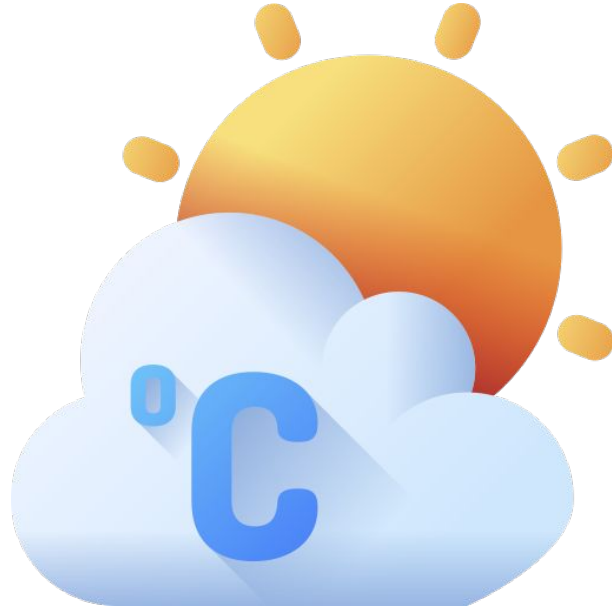
ЦЕЛЬ

Закрепить полученные знания по React и Redux на практике

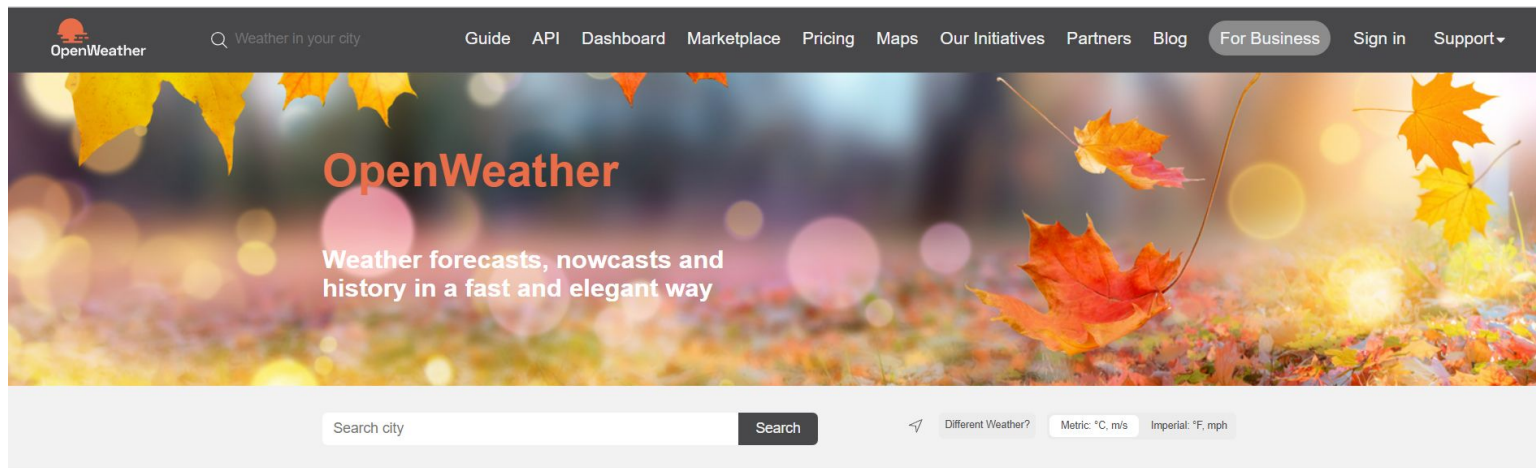
ПЛАН ЗАНЯТИЯ

- 
- 1. Ознакомление с требованиями к проекту
 - 2. Самостоятельная работа

**Цель занятия: разработать мини-проект
Weather App с помощью React и Redux**



Перейдите на сайт - <https://openweathermap.org/>



Nov 13, 11:03pm

London, GB

12°C

Yellow thunderstorm warning

Feels like 11°C. Broken clouds. Moderate breeze

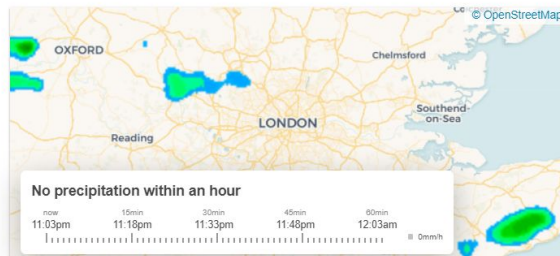
6.7m/s WSW

1001hPa

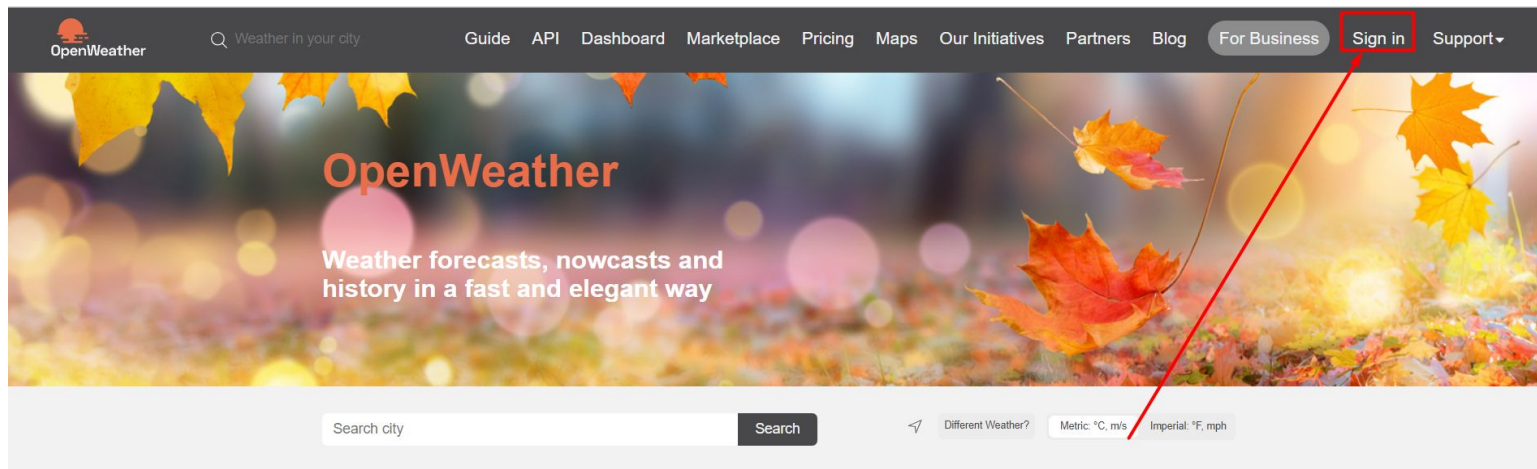
Humidity: 75%

Dew point: 8°C

Visibility: 10.0km



Перейдите во вкладку Sign in



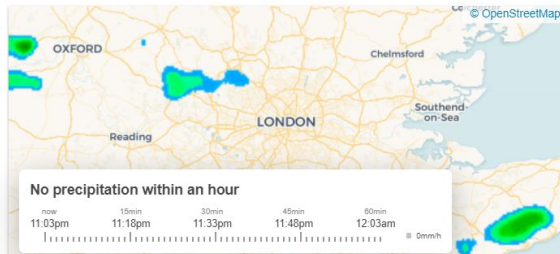
Nov 13, 11:03pm
London, GB

12°C

Yellow thunderstorm warning

Feels like 11°C. Broken clouds. Moderate breeze

➤ 6.7m/s WSW ☉ 1001hPa
Humidity: 75% Dew point: 8°C
Visibility: 10.0km



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Заполните необходимые поля и нажмите на кнопку Create Account



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We will use information you provided for management and administration purposes, and for keeping you informed by mail, telephone, email and SMS of other products and services from us and our partners. You can proactively manage your preferences or opt-out of communications with us at any time using [Privacy Centre](#). You have the right to access your data held by us or to request your data to be deleted. For full details please see the [OpenWeather Privacy Policy](#).

☒ I am 16 years old and over
☒ I agree with [Privacy Policy](#), [Terms and conditions of sale](#) and [Websites terms and conditions of use](#)

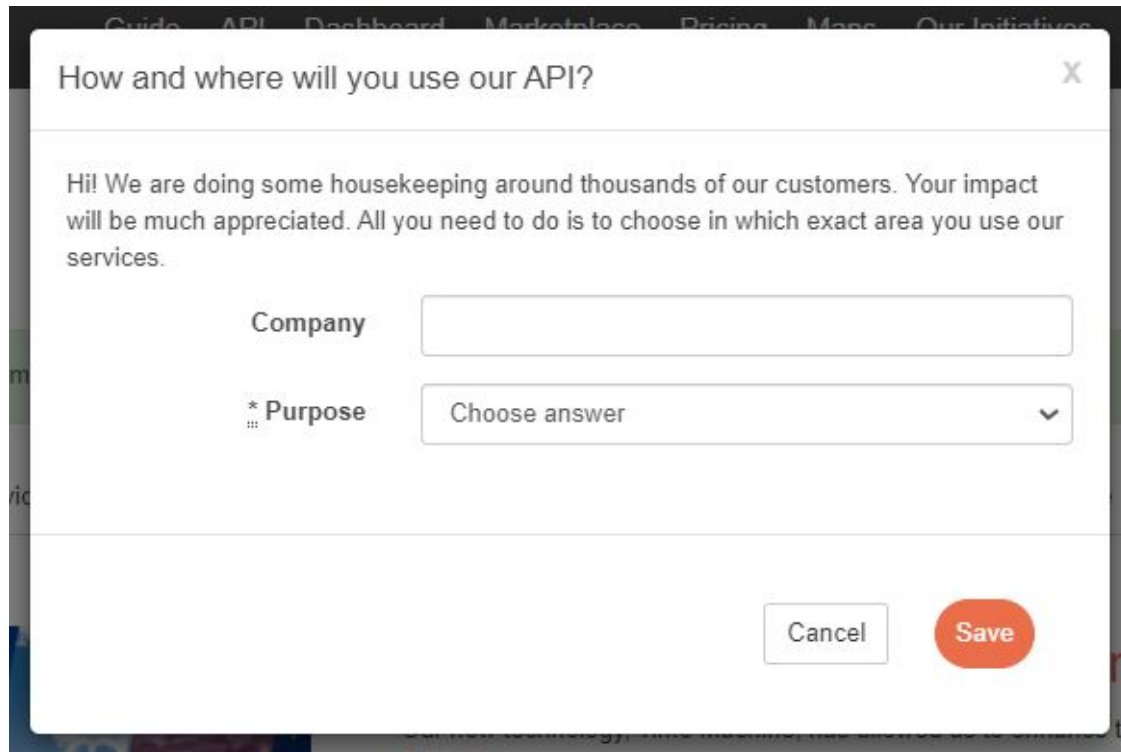
I consent to receive communications from OpenWeather Group of Companies and their partners:

☐ System news (API usage alert, system update, temporary system shutdown, etc)
☐ Product news (change to price, new product features, etc)
☐ Corporate news (our life, the launch of a new service, etc)

☒ I'm not a robot 
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Create Account

После регистрации появиться окно, его можно закрыть



How and where will you use our API? X

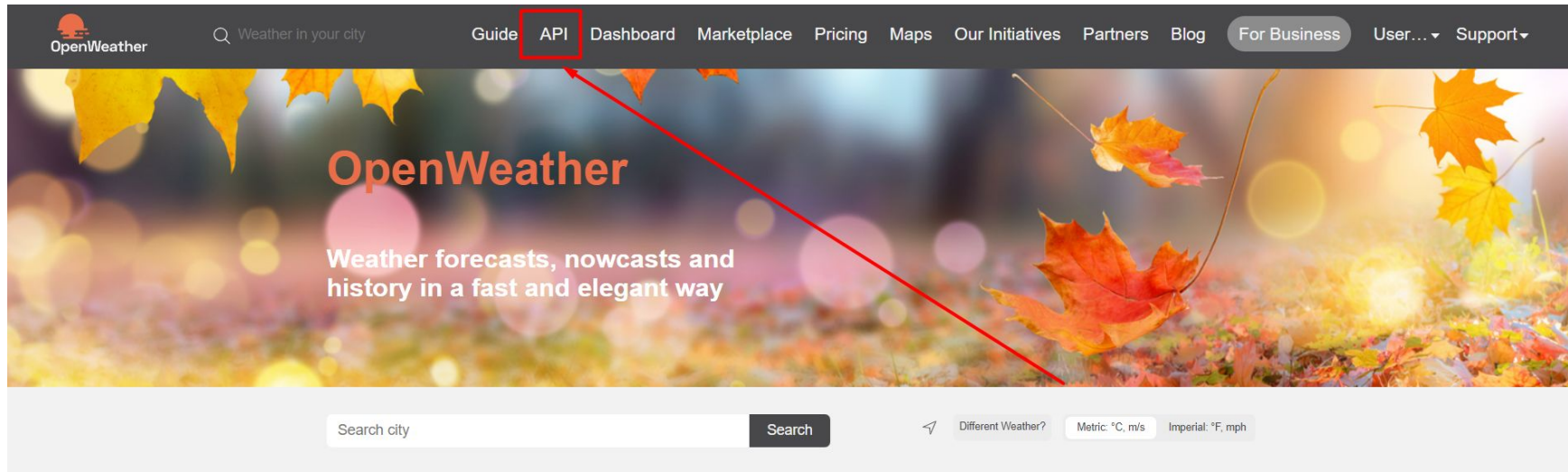
Hi! We are doing some housekeeping around thousands of our customers. Your impact will be much appreciated. All you need to do is to choose in which exact area you use our services.

Company

* Purpose

Cancel Save

Переходим на вкладку API



Nov 13, 11:52pm

London, GB



12°C

Yellow thunderstorm warning

Feels like 11°C Broken clouds Moderate breeze



Листаем вниз до раздела указанного на слайде и нажимаем на кнопку API doc

You can read the [How to Start](#) guide and enjoy using our powerful weather APIs right now.

Current & Forecast weather data collection

Current Weather Data

API doc

Subscribe

- Access current weather data for any location
- We collect and process weather data from different sources such as global and local weather models, satellites, radars and a vast network of weather stations
- JSON, XML, and HTML formats
- Included in both free and paid subscriptions

Hourly Forecast 4 days

API doc

Subscribe

- Hourly forecast is available for 4 days
- Forecast weather data for 96 timestamps
- JSON and XML formats
- Included in the Developer, Professional and Enterprise subscription plans

Daily Forecast 16 days

API doc

Subscribe

- 16 days forecast is available for any location on the globe
- 1-day step for 16 days
- JSON and XML formats
- Included in all paid subscription plans

Climatic Forecast 30 days

API doc

Subscribe

- Forecast weather data for 30 days
- JSON format
- Included in the Developer, Professional and Enterprise subscription plans

Bulk Download

API doc

Subscribe

- Current weather, a variety of weather forecasts and their 7-day archive via regularly updated files
- Weather bulks are grouped by types of weather data and location lists (global city lists or ZIP code lists of EU, UK,

Global Weather Alerts Push notifications

Doc

Get access

- Get all the **warnings from national weather agencies**
- Weather alerts are pushed to your endpoint as soon as they occur

В открывшемся окне нажимаем на раздел указанный на слайде

Current weather data

[Home](#) / [API](#) / [Current weather](#)

Product concept

Access current weather data for any location on Earth! We collect and process weather data from different sources such as global and local weather models, satellites, radars and a vast network of weather stations. Data is available in JSON, XML, or HTML format.

Call current weather data

How to make an API call

API call


```
https://api.openweathermap.org/data/2.5/weather?lat={lat}&lon={lon}&appid={API key}
```

Parameters

required Latitude. If you need the geocoder to automatic convert city names and zip-codes to geo coordinates and the other way around, please

- Product concept
- Call current weather data
 - How to make an API call
- API response
 - JSON format API response example
 - JSON format API response fields
 - XML format API response example
 - XML format API response fields
 - List of weather condition codes
 - Min/max temperature in current weather
 - API and forecast API
- Bulk downloading
- Other features
 - Geocoding API
 - Built-in geocoding
 - Built-in API request by city name**
 - Built-in API request by city ID
 - Built-in API request by ZIP code
- Format
 - Units of measurement
 - Multilingual support
 - Call back function for JavaScript code

Для нашего fetch запроса понадобится первый url с переменными {city name} и {API key}

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Built-in API request by city name

You can call by city name or city name, state code and country code. Please note that searching by states available only for the USA locations.

API call

`https://api.openweathermap.org/data/2.5/weather?q={city name}&appid={API key}`

`https://api.openweathermap.org/data/2.5/weather?q={city name},{country code}&appid={API key}`

`https://api.openweathermap.org/data/2.5/weather?q={city name},{state code},{country code}&appid={API key}`

Parameters

q

required

City name, state code and country code divided by comma, Please refer to [ISO 3166](#) for the state codes or country codes. You can specify the parameter not only in English. In this case, the API response should be returned in the same language as the language of requested location name if the location is in our predefined list of more than 200,000 locations.

appid

required

Your unique API key (you can always find it on your account page)

Product concept

Call current weather data

How to make an API call

API response

JSON format API response example

JSON format API response fields

XML format API response example

XML format API response fields

List of weather condition codes

Min/max temperature in current weather

API and forecast API

Bulk downloading

Other features

Geocoding API

Built-in geocoding

Built-in API request by city name

Built-in API request by city ID

Built-in API request by ZIP code


Format

Units of measurement

Multilingual support

Call back function for JavaScript code

Чтобы получить переменную API key для вашего запроса необходимо нажать на неё в url

 Weather in your city

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Built-in API request by city name

You can call by city name or city name, state code and country code. Please note that searching by states available only for the USA locations.

API call

```
https://api.openweathermap.org/data/2.5/weather?q={city name}&appid={API key}
```

```
https://api.openweathermap.org/data/2.5/weather?q={city name},{country code}&appid={API key}
```

```
https://api.openweathermap.org/data/2.5/weather?q={city name},{state code},{country code}&appid={API key}
```

Parameters

q	required	City name, state code and country code divided by comma, Please refer to ISO 3166 for the state codes or country codes. You can specify the parameter not only in English. In this case, the API response should be returned in the same language as the language of requested location name if the location is in our predefined list of more than 200,000 locations.
appid	required	Your unique API key (you can always find it on your account page)

Product concept

Call current weather data

How to make an API call

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JSON format API response example

JSON format API response fields

XML format API response example

XML format API response fields

List of weather condition codes

Min/max temperature in current weather

API and forecast API

Bulk downloading

Other features

Geocoding API

Built-in geocoding

Built-in API request by city name

Built-in API request by city ID

Built-in API request by ZIP code

Format

Units of measurement

Multilingual support

Call back function for JavaScript code

click

В открывшемся окне вы можете скопировать имеющийся API key (обратите внимание на статус - он должен быть активным)


New Products Services **API keys** Billing plans Payments Block logs My orders My profile Ask a question

You can generate as many API keys as needed for your subscription. We accumulate the total load from all of them.

Key	Name	Status	Actions
5c41ec20e551056f2ba6f4eaf6350ea	Default	Active	<input type="checkbox"/> <input type="checkbox"/>

Create key

API key name



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Также вы можете сгенерировать новый API key

New Products Services **API keys** Billing plans Payments Block logs My orders My profile Ask a question

You can generate as many API keys as needed for your subscription. We accumulate the total load from all of them.

Key	Name	Status	Actions
5c41ec20e551056f2ba66f4eaf6350ea	Default	Active	 

Create key

Generate

нажмите

введите имя

Product Collections

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Новый API key появился в списке

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You can generate as many API keys as needed for your subscription. We accumulate the total load from all of them.

Key	Name	Status	Actions	Create key
5c41ec20e551056f2ba66f4ea6350ea	Default	Active	  	<input type="text" value="API key name"/> <button>Generate</button>
585c198d3f50a59e77ad7179b02fd400	weather_key	Active	  	

Product Collections

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[Weather Maps](#)
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Краткая информация о приложении Weather App

- Приложение содержит две страницы: “**Home**” и “**History**”
- Поиск погоды осуществляется путём ввода города в инпут и нажатия на кнопку “**Search**”
- Информация про всю полученную погоду отображается на странице “**History**”
- При получении ошибки, она выводится на странице “**Home**”





Содержание страницы Home

- заголовок - “**Weather app**”
- две ссылки навигации - “**Home**” (активная по умолчанию) и “**History**”
- поле для ввода города, данные по погоде которого мы хотим получить
- кнопка “**Search**” для получения погоды с сервера



Содержание страницы History

- заголовок - “**Weather app**”
- две ссылки навигации - “**Home**” и “**History**”(активная)
- список сохранённых данных о погоде в виде плиток, аналогичных по дизайну с информацией о погоде на странице “**Home**”
- Под списком с погодой находится кнопка “**Delete all cards**”



Требования к функциональности - страница Home

- При нажатии на кнопку “Search”, должен отправляться запрос на url:

`https://api.openweathermap.org/data/2.5/weather?q=${CITY_NAME}&appid=${APP_ID}`

- Во время ожидания ответа нужно отображать индикатор (внешний вид на ваше усмотрение)
- После успешного получения данных, их нужно отобразить на странице **Home** и **History**.
- Иконку для отображения результата, нужно получить по url:

`http://openweathermap.org/img/w/${weatherData.weather[0].icon}.png`

- При получении ошибки, её данные нужно отобразить на странице, вместо данных о погоде
- При отсутствии названия города (пустое поле), после нажатия на кнопку “**Search**” должен появиться alert с просьбой ввести название города (или происходить валидация с ошибкой при использовании fromik)

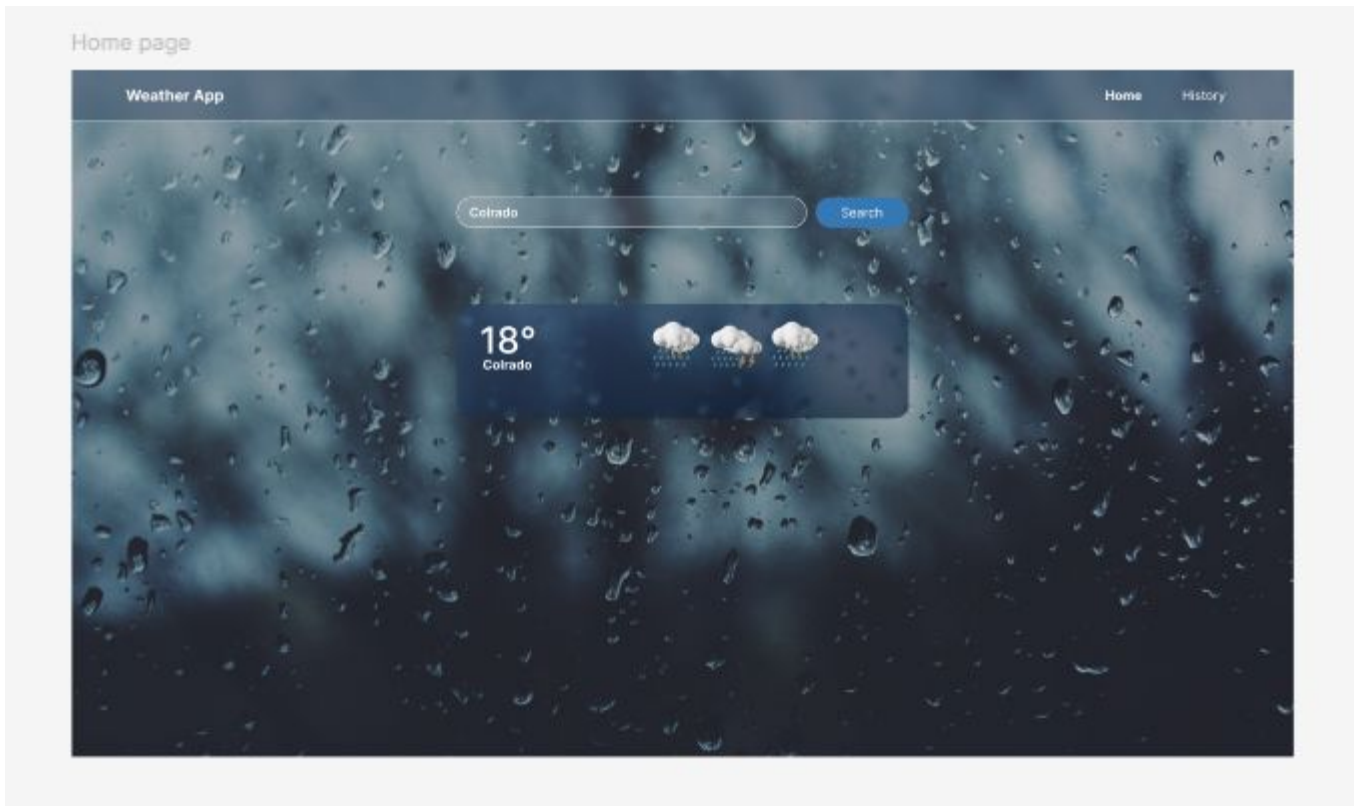
Требования к функциональности - страница History




- При нажатии на кнопку “**Delete all cards**” удаляется вся информация о погоде со страницы “**History**”
- Кнопка “**Delete all cards**” появляется только если на странице есть хотя бы одна карточка с погодой

Дизайн страницы -

<https://www.figma.com/design/FMdSWLdcnggeiUGY08pL9P/52.1---final?node-id=0-1&p=f&t=CHzgKEo6Cz7EJROu-0>





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Программирование с нуля в
немецкой школе AIT TR GmbH