# Lesson 5: Diving Deeper into React Native

Creating a Feed

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React Native Quickstart

#### **Lesson Outline**

- 1. Exploring JSON, JavaScript Object Notation
- 2. Creating an Article thumbnail
- 3. Displaying multiple Articles
- 4. Making everything look good

# Exploring JSON, JavaScript Object Notation

#### Getting the news

We'll be using an online service to convert the New York Times' RSS feed to a JSON object.

It is accessible through the link

https://newsapi.org/v2/top-headlines?country=us&apiKey=7c185ff7708e44dea7b0f22f482203d5.

#### Getting the news (cont.)

Under items, we can see that we now have an array of articles. The format of each article is as below:

```
{
    "source": {
        "id": null,
        "name": "sourceName"
},
    "author": "Author Name",
    "title": "Article Title",
    "description": "Article Description",
    "url": "uri",
    "urlToImage": "uri",
    "publishedAt": "Publish Date",
    "content": null
},
```

Creating an Article thumbnail

# Displaying a single Article

In ./src/components/, create a file called
articleThumbnail.jsx.

Enter the following code:

#### Displaying a single Article (cont.)

We'll now bring in our Component into ./src/pages/Home.jsx.

# Displaying a single Article (cont.)

Next, create an object called **newsItem** with a single article. You can choose any from the provided link a couple slides back.

Put the following code above your Home const.

```
const newsItem = {
    "source": {
        "id": null,
        "name": "sourceName"
},
    "author": "Author Name",
    "title": "Article Title",
    "description": "Article Description",
    "url": "uri",
    "urlToImage": "uri",
    "publishedAt": "Publish Date",
    "content": null
}
```

# Displaying a single Article (cont.)

Now, let's give newsItem to our <ArticleThumbnail />.

```
<ArticleThumbnail item={newsItem} />
```

Displaying multiple Articles

# Having data with multiple objects

In ./src/pages/Home.jsx, add 2 more articles to your newsItem.

Hint: newsItem is now an Array of Objects!

#### Rendering multiple ArticleThumbnails

We are able to make as many <articleThumbnail />
instances as needed through a <Flatlist />.

Replace your singlular < ArticleThumbnail /> with a < FlatList />.

Make sure to import FlatList from 'react-native'!

```
import {View, FlatList} from 'react-native'

<FlatList
  data={newsItem}
  renderItem={({ item }) => <ArticleThumbnail item={item} />}
/>
```

#### Explaining <FlatList/>

<FlatList /> has two required components, the data and
renderItem.

data must be a list/Array, and the objects of the list would be used for the renderItem.

In the **renderItem**, we must create a function that takes in the individual object of the list. The provided code has this named **item**, but can be renamed to better fit the project as required.

#### Explaining <FlatList/> (cont.)

<FlatList /> has several other parameters we can provide.

Useful ones include ListHeaderComponent and extradata.

Refer to documentation for more details:

https://reactnative.dev/docs/flatlist.

# Fixing our styling

The **<Button** /> is blocking our **FlatList** when we attempt to scroll down.

Where should we move our <Button /> instead?

# Fixing our styling (cont.)

Now as you can see, we have some white space when scrolling our FlatList down.

Find out which of the style properties in

./src/styles/globalStyles is causing this behaviour.

Making everything look good

# Styling our ArticleThumbnail

On your own, find a mobile app that displays Articles and copy their style. (20mins)

Feel free to ask any questions!

Questions? Reach out at: karlorjalo@gmail.com

**End of Lesson**