

Dinosaurs

WHAT DOES "DINOSAUR" MEAN?

The word "dinosaur" was invented by the English biologist Sir Richard Owen. He first used the term "Dinosauria" in 1842 when he needed a word for a new group of animals that he had recently identified. It comes from two Greek words: "deinos", which means "terrible", and "sauros", which means "lizard", although strictly speaking, dinosaurs are not lizards!

WHAT IS A DINOSAUR?

Dinosaurs were a tremendously varied group of animals. Some were grazers, some were predators, some lived in herds, some had horns and some had armour, but despite all these differences, there were things that all dinosaurs had in common. They were all land animals who lived between 250 and 65 million years ago, from the early Triassic period to the end of the Cretaceous period.

Some dinosaurs were around for several periods, but most can be grouped according to the specific period during which they lived.

WHY DID DINOSAURS BECOME EXTINCT?

Dinosaurs became extinct about 65 million years ago. About 70% of all animal life on earth died out. Scientists call it a mass extinction -- it wasn't the first mass extinction in earth's history and it probably won't be the last! There are many different theories about why this happened but no humans were around to actually see it. We will probably never know exactly what happened, which means that scientists will continue to disagree and come up with different dinosaur extinction theories.

TYPES OF DINOSAURS

Dinosaurs can be divided into different kinds - by name, species classification, by what they ate, by when they lived, or even by size. Scientists divide dinosaurs by types (which they call "classification"). These include the following:

- Ankylosauria
- Ceratopsia
- Ornithomimidae
- Theropoda
- Stegosauridae
- Theropoda

If you want to see a list of dinosaurs, [click here](#).

[Activate Windows](#)

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DINOSAUR PERIODS

The Triassic, Jurassic, and Cretaceous periods were marked out by geologists to distinguish among various types of geologic strata (shells, limestone, etc.) laid down tens of millions of years ago. Since dinosaur fossils are usually found embedded in rock, paleontologists associate dinosaurs with the geologic period in which they lived.

THE TRIASSIC PERIOD

At the start of the Triassic period, 250 million years ago, the Earth was just recovering from the Permian/Triassic Extinction, which witnessed the demise of over two-thirds of all land-dwelling species and a whopping 95 percent of ocean-dwelling species. In terms of animal life, the Triassic was most notable for the diversification of archosaurs into pterosaurs, crocodiles, and the earliest dinosaurs, as well as the evolution of therapsids into the first true mammals.

THE JURASSIC PERIOD

Thanks to the movie "Jurassic Park", people identify the Jurassic period, more than any other geological time span, with the age of dinosaurs. The Jurassic is when the first gigantic sauropod and theropod dinosaurs appeared on Earth, a far cry from their slender, man-sized ancestors of the preceding Triassic period. But the fact is that dinosaur diversity reached its peak in the ensuing Cretaceous period.

THE CRETACEOUS PERIOD

The Cretaceous period is when dinosaurs attained their maximum diversity, as ornithomimids and saurischian families branched off into a bewildering array of armed, raptor-clawed, thick-skulled, and/or long-toothed and long-tailed meat- and plant-eaters. The longest period of the Mesozoic Era, it was also during the Cretaceous that the Earth began to assume something resembling its modern form. At that time, it was still a supercontinent called Pangea.

[Current](#)

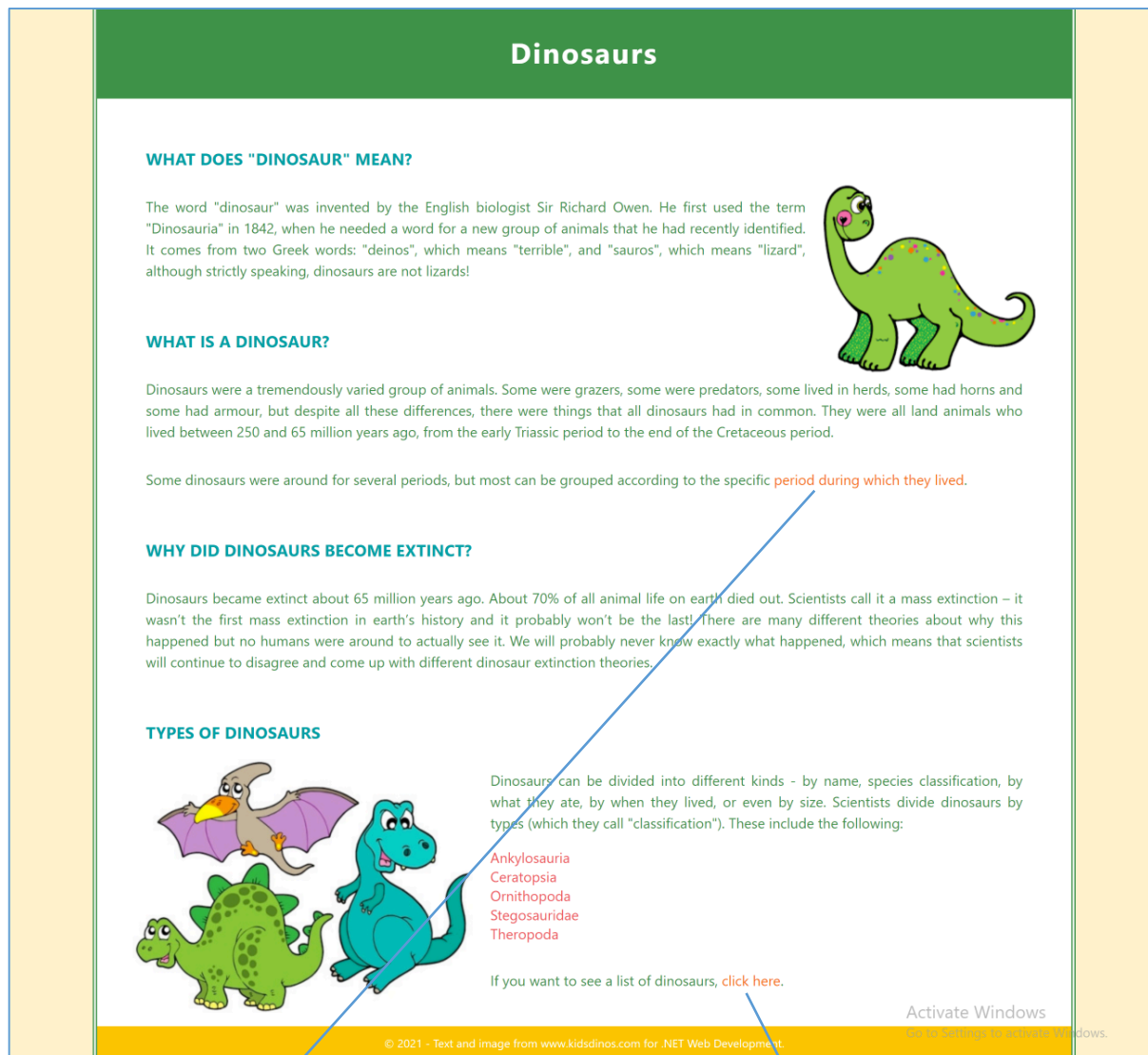
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LIST OF DINOSAURS

Name	Pronounced	Meaning	Class	Period
Ankylosaurus	Ann-kye-low-sore-uss	Fused Reptile	Ankylosauria	Late Cretaceous
Nodosaurus	Node-oh-sore-uss	Reptile with lumps	Ankylosauria	Mid Cretaceous
Euoplocephalus	You-oh-ploe-seff-ah-luss	Well Protected Head	Ankylosauria	Late Cretaceous
Hyloesaurus	High-lay-oh-sore-uss	Reptile of the Forest	Ankylosauria	Early Cretaceous
Pinacosaurus	Pin-ah-coe-sore-uss	Plank Reptile	Ankylosauria	Late Cretaceous
Panoplosaurus	Pan-oh-ploh-sore-uss	Completely Covered In Armor	Ankylosauria	Late Cretaceous
Altrirhinus	All-tee-ryne-uss	High Snout	Ornithomimidae	Early Cretaceous
Tenontosaurus	Ten-on-toe-sore-uss	Slimy Lizard	Ornithomimidae	Early Cretaceous

Instructions:

1. Create a .NET Web Application called Dinosaurs.
2. Modify `_Layout.cshtml` and `Index.cshtml` so that the homepage displays as shown. It must contain text and images provided, and mimic the layout as closely as possible.



Index.cshtml

Periods.cshtml

Takes the user to a page that contains information about the different periods (text and image provided)

List.cshtml

Takes the user to a page that uses a service to show a list of dinosaurs (with information) from the JSON file provided.

3. Create a page `Periods.cshtml` which contains the text and image provided. Users can navigate to this page by clicking on the hyperlink in `Index.cshtml`.

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Periods.cshtml

4. Include the JSON file with the dinosaur data in your project.
5. Create a Model that maps the properties in your Dinosaur class to the JSON properties.
6. Create a service that gets the dinosaur data from JSON and produces a list of Dinosaur objects. Don't forget to register the service with your application.
7. Create a page List.cshtml which uses the service to display the required data in a table (as shown). Your page should mimic the required layout as closely as possible.

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Tenontosaurus	Ten-on-toe-sore-uss	Sinew Lizard	Ornithopoda	Early Cretaceous

List.cshtml

Submission Requirements:

- Zipped up file containing your entire Solution.
This will ensure that you are able to do this for your Final Evaluation.
- Screenshot of your Solution Explorer window to show your folder structure containing the JSON file, static assets, Models, Services, Pages and the files within them.
- Screenshot of code in Dinosaur.cs which contains the Dinosaur class and properties.
- Screenshot of code in Index.cshtml that includes the links to Periods and List.
- Screenshot of the code in the ConfigureServices() method in Startup.cs file.
- Screenshot of your application working in the browser.
Please show that the following pages are working:
 - Index.cshtml
 - Periods.cshtml
 - Links.cshtml