

# React JS + Node JS Practical Test

Time: 3h

## Introduction

Suppose you are the lead front-end engineer at DeedMed. Customers are requesting a new carousel component to be added in an ongoing project. It is an urgent requirement and you only have 3 hours to complete the following task. You can only use React JS + Node JS tech stack for the implementation.

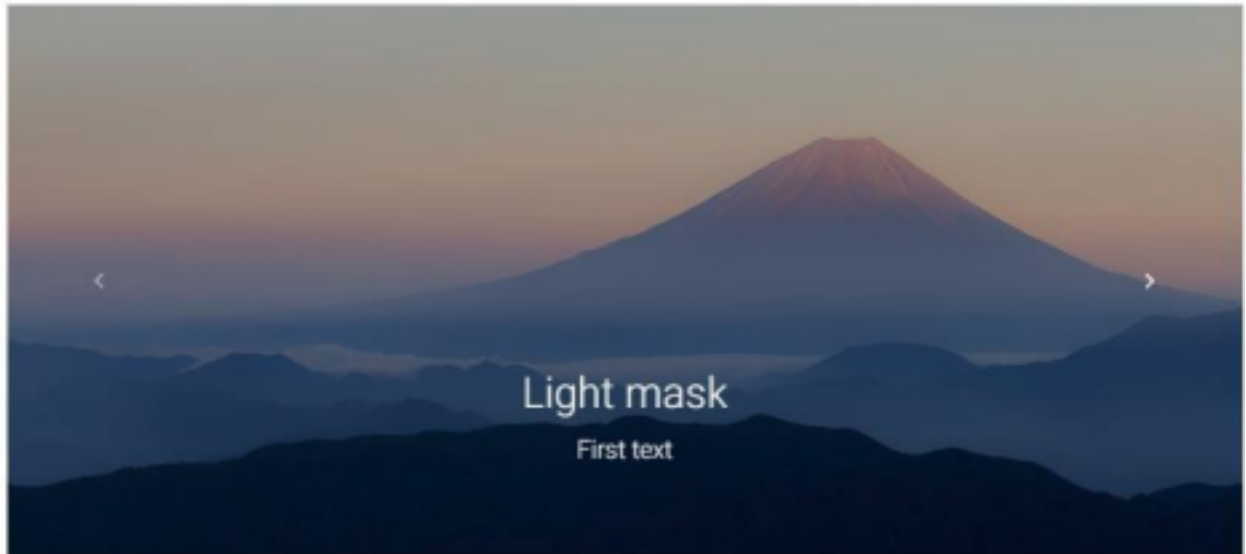
## Requirements

1. Create an Express application which runs on port 3600.
2. Implement a GET API to fetch carousel data for the React application in the following format.

URL	<b><a href="http://localhost:3600/api/carousel">http://localhost:3600/api/carousel</a></b>
Method	<b>GET</b>
URL Params	<b>slides</b> – Number of slide data to be retrieved. Maximum is 10. No need to use a database and use a dummy array of data for the prototype purposes.
Response	<pre>{   slides: [     {       image: "http://unsplash.com/...",       title: "strong mask",       subTitle: "Secondary text"     },     ... n   ] }</pre>
Example Request	<a href="http://localhost:3600/api/carousel?slides=5">http://localhost:3600/api/carousel?slides=5</a> This will return an array of 5 slides.

3. Create a basic React application with create-react-app and name it as "Carousel".
4. You need to implement a reusable stateful component called "Carousel" which will look like in the following screenshot. It is a typical image carousel where each slide has an image, title and a

sub title. There are left and right arrows to navigate the carousel. You can either use fade-in/out or slide-in/out animations for the transition. You cannot use any existing carousel plugin and the implementation should be original.



5. **Carousel** component has two input props.

Component Name	<b>Carousel</b>
Props	<b>Slides: 5</b> (Number of Slides)  <b>Infinite: true/false</b> (Whether the carousel should be infinitely navigable)
Example	<b>&lt;Carousel Slides="4" Infinite="true" /&gt;</b>  This will create a Carousel which contains 4 slides, and which is able to be navigate infinitely.

6. Based on the given input props the Carousel should be dynamically generated. **All slide data should be fetched from the API we first created, and the data fetching should be implemented inside the Carousel component itself.**

7. Identify what are the sub components you can use inside the carousel and split them into small

functional or stateful components. (Ex: Title, sub title).

8. Next/previous arrows should be invisible if the Slides count is 1.
9. Create a sample page to demonstrate the functionality of your carousel with following input props.

**`<Carousel Slides="1" Infinite="false" />`**

**`<Carousel Slides="4" Infinite="true" />`**

**`<Carousel Slides="10" Infinite="false" />`**

10. Images should be saved using NodeJS
11. Slides information should be saved in a mongoDB database
12. Push code to github repository & Share with us.