Blog Wesite

1.Lets install react and tailwind css.

2. Lets create api folder where public,src folder are staying.api->db.json and put json data.

3. npm install -g json-server / npm install json-server --save-dev

4. json-server --watch api/db.json --port 5000 …. Then we can see your api data.

5. Lets check the is working or not->

```
import { useEffect, useState } from 'react';
const App = () => { const [data, setData] = useState([]);
useEffect(() => {fetch('http://localhost:5000/articles').then((response) => response.json()) .then((data) =>
setData(data)) .catch((error) => console.error('Error fetching data:', error));}, []);
return (<div><h1>Articles</h1>{data.map((item) => (<div
key={item.id}><h2>{item.title}</h2><p>{item.content}</p><img src={item.image} alt=""
/></div>))}</div>);};export default App;
```

6.Lets install react-router-dom and configure it on app.jsx->

```
<BrowserRouter><Navbar /><Routes><Route path="/" element={<Home />} />></Routes></BrowserRouter>
```

Pages will home,blogs,services,contact,about

7.lets intall react-icons

8. Navbar.jsx->

```
import React, { useState } from "react";import { FaBars, FaDribbble, FaFacebook, FaTwitter } from
"react-icons/fa";import { FiX } from "react-icons/fi";import { Link, useLocation } from "react-router-dom";
const Navbar = () => {const [isMenuOpen, setIsMenuOpen] = useState(false);const toggleMenu = () =>
setIsMenuOpen(!isMenuOpen);const location = useLocation(); const navItems = [ { to: "/", label: "Home" },{ to:
"/blogs", label: "Blogs" }, { to: "/services", label: "Services" },{ to: "/about", label: "About Us" },{ to: "/contact",
label: "Contact" },];
 return (<header className="bg-gray-800 text-white py-4 fixed top-0 right-0 left-0 z-50"><nav className="flex
justify-between items-center max-w-screen-xl mx-auto px-4"><Link to="/" className="text-2xl font-bold
text-orange-600"> <span>DK</span> </Link>
{/* Desktop Menu */}
 <ul className="space-x-6 md:flex gap-6 text-lg hidden">{navItems.map((item) => (<li key={item.to}> <Link
to={item.to} className={`hover:text-orange-400 ${location.pathname === item.to ? "text-orange-500 border-b-2
border-orange-500": "" }`}  >{item.label} </Link></li> ))}</ul>
{/* Social + Login (Desktop) */}
<div className="text-white lg:flex gap-4 items-center hidden cursor-pointer"><FaFacebook
className="hover:text-orange-600" /><FaDribbble className="hover:text-orange-600" /><FaTwitter
className="hover:text-orange-600" /><button className="bg-orange-500 px-6 py-2 font-medium rounded
hover:bg-white hover:text-orange-500 transition-all duration-200 ease-in cursor-pointer"> Log in
</button></div>
 {/* Mobile Nav Button */}
<div className="md:hidden z-50"> <button onClick={toggleMenu} className="cursor-pointer"> {isMenuOpen
? ( <FiX className="w-5 h-5" />) : ( <FaBars className="w-5 h-5" /> )} </button></div></nav>
{/* Mobile Nav Menu */}
 <ul className={`md:hidden fixed top-0 left-0 w-full h-full bg-gray-800 text-white z-40 transform ${isMenuOpen
? "translate-y-0" : "-translate-y-full" } transition-transform ease-out duration-300 px-4 space-y-6 flex flex-col
items-center justify-center`} >{navItems.map((item) => ( <li key={item.to}> <Link to={item.to} onClick={() =>
setIsMenuOpen(false)}className="hover:text-orange-400"> {item.label} </Link></li> ))}</ul> </header>
);};export default Navbar;
```

9.component/ Banner.jsx in home.jsx and in banner.jsx->

```
import React from "react";import { FaArrowRight } from "react-icons/fa";import { Link } from
"react-router-dom";

const Banner = () => { return ( <div className="px-4 py-32 bg-gray-900"><div className="text-white
text-center"><h1 className="text-3xl lg:text-7xl leading-snug font-bold mb-5"> Welcome to our blogs </h1> <p
```

```
className="text-gray-100 lg:w-3/5 mx-auto mb-5">Lorem </p> <div className=""><Link to='/'
className="font-medium hover:text-orange-500 inline-flex items-center">Learn More <FaArrowRight
className="pl-1" /></Link></div></div> </div>  );};export default Banner;
```

10. Lets work on all page first->
```
<div> <div className="py-40 bg-gray-900 text-center text-white px-4"> <h2 className="text-3xl lg:text-7xl
leading-snug font-bold mb-5">Services Page</h2> </div> </div>
```
11. Inside blogs.jsx-><div className="max-w-7xl mx-auto"><BlogSection /></div>...BlogSection is a
component so lets make it under components folder.
12. Lets work on BlogSection->
```
import React, { useEffect, useState } from "react";
const BlogSection = () => { const [blogs, setBlogs] = useState([]);useEffect(() => { async function fetchBlogs()
{let url = "http://localhost:500/articles";const response = await fetch(url); const data = await
response.json();setBlogs(data); }fetchBlogs(); }, []);
 return ( <div> {/* Category Section */}<div className="">Page Category</div>{/* BlogCard Section */}<div
className=""> </div>{/* Pagination Section */}</div> );};export default BlogSection;
```
13. Lets create blogCart.jsx and use it in blogCard section div of number 12.

14. In blogCart.jsx->
```
import React from "react";import { FaUser } from "react-icons/fa";import { Link } from "react-router-dom";
const BlogCards = ({ blogs }) => {const filteredBlogs = blogs;
return (<div className="grid md:grid-cols-3 sm:grid-cols-2 grid-cols-1 gap-8">{filteredBlogs.map((blog) => (
<Link key={blog.id} className="p-5 shadow-lg rounded cursor-pointer"> <div className=""> <img
src={blog.image} className="w-full" alt="" /> </div><h3 className="mt-4 mb-2 font-bold hover:text-blue-600
cursor-pointer"> {blog.title}</h3> <p className="mb-2 text-gray-600 text-sm"><FaUser className="inline-flex
items-center nr-2" />{blog.author}</p><p className="text-sm text-gray-500">Published: {blog.published_date}
</p></Link> ))}  </div>  );};export default BlogCards;
```

15. Again come back to blogSction and do some update for pagination and category
```
const [blogs, setBlogs] = useState([]);const [currentPage, setCurrentPage] = useState(1);const pageSize = 12;
const [selectedCategory, setSelectedCategory] = useState(null); const [activeCategory,setActiveCategory] =
useState(null)
 useEffect(() => {async function fetchBlogs() { let url =
"http://localhost:500/articles?page=${currentPage}&limit=${pageSize}";
 if (selectedCategory) { url += `&category=${selectedCategory}`;  }
    const response = await fetch(url);const data = await response.json(); setBlogs(data); }fetchBlogs(); },
[currentPage, pageSize, selectedCategory]);
 // Page changing button
  const handlePageChange = (pageNumber) => {setCurrentPage(pageNumber);  };
  const handleCategoryChange = (category) => { setSelectedCategory(category)
setCurrentPage(1)setActiveCategory(category)  }
```

16. Lets pass them on blogCard-> <BlogCards blogs={blogs} currentPage={currentPage}
selectedCategory={selectedCategory} pageSize = {pageSize} />

17.lets receive them in blogCard and->
```
const filteredBlogs = blogs.filter((blogs)=>!selectedCategory || blogs.category ===
selectedCategory).slice((currentPage-1)*pageSize,currentPage * pageSize);
```

18.Lets create pagination component and use it in blogSection
```
 <Pagination onPageChange={handlePageChange} blogs={blogs} currentPage={currentPage} pageSize =
{pageSize} />
```

19. In pagination.jsx->
```
import React from "react";
const Pagination = ({ onPageChange, currentPage, blogs, pageSize }) => {const totalPages =
Math.ceil(blogs.length / pageSize);console.log(totalPages);const renderPaginationLinks = () => { return
Array.from({length:totalPages},(_,i)=>i+1).map((pageNumber)=>(<li className={pageNumber === currentPage
? 'activePagination': "" } key={pageNumber}><a href="#" onClick={()=>onPageChange(pageNumber)}
className=""> {pageNumber} </a> </li> )) } return <ul className="pagination my-8 flex-wrap gap-4"><li>
<button onClick={()=>onPageChange(currentPage -1)}disabled={currentPage===1}>Previous</button></li><div
className=""> {renderPaginationLinks()} </div><li><button onClick={()=>onPageChange(currentPage
+1)}disabled={currentPage===totalPages}>Next</button></li> </ul>;};export default Pagination;
```

20. App.css->
```
.pagination {display: flex;justify-content: center;align-items: center;list-style-type: none;margin: 0;padding: 0;}
.pagination li { margin: 0 10px;}
.pagination a {display: inline-block;padding: 5px 10px; border: 1px solid #ccc;border-radius:
4px;text-decoration: none; color: #000;}
.pagination a:hover {background: #eee;}
.pagination li.activePagination {background: rgb(255, 106, 0); border-radius: 4px;color: #fff;}
.pagination li.activePagination a{color:#fff;}
```

21.Lets create CategorySelection component and use it in blogSection->
```
<CategorySelection
onSelectCategory={handleCategoryChange}selectedCategory={selectedCategory}activeCategory={activeCateg
ory}/>
```

22. CategorySelection->
```
import React, { useState, useEffect } from "react";
const CategorySelection = ({onSelectCategory,selectedCategory, activeCategory,}) => {const [categories,
setCategories] = useState([]);const [loading, setLoading] = useState(true);const [error, setError] =
useState(null);
useEffect(() => { fetch("http://localhost:5000/articles") .then((response) => response.json()).then((data) =>
{const allCategories = data.map((article) => article.category);const uniqueCategories = [...new
Set(allCategories)];setCategories(uniqueCategories);setLoading(false); }).catch((err) => {setError("Failed to
fetch articles");setLoading(false); }); }, []); if (loading) { return <div>Loading categories...</div>;}if (error) {
return <div>{error}</div>; }return (<div className="px-4 mb-8 lg:space-x-16 flex flex-wrap items-center
border-b-2 py-5 text-gray-900 font-semibold gap-9"><button onClick={() =>
onSelectCategory(null)}className={`lg:ml-12 sm:mr-2 mr-4 cursor-pointer ${activeCategory ? "" :
"active-button"}`}> All </button> {categories.map((category) => ( <button onClick={() =>
onSelectCategory(category)}className={`sm:mr-2 mr-2 cursor-pointer ${ activeCategory === category ?
"active-button" : ""  }`}key={category}>{category}</button>))}  </div> );};export default CategorySelection;
```

23. .active-button{color: rgb(255, 106, 0);}
24. Sidebar in blogSection right after BlogCard component.
```
<div className=""><Sidebar /></div>
```

25.Sidebar.jsx->
```
import React, { useEffect, useState } from "react";import { FaArrowRight } from
"react-icons/fa";import { Link } from "react-router-dom";
const Sidebar = () => {const [popularBlogs, setPopularBlogs] = useState([]);useEffect(() =>
{fetch("http://localhost:5000/articles").then((res) => res.json()).then((data) => setPopularBlogs(data.slice(0,
15))); });return ( <div> <div className=""><h3 className="text-2xl font-semibold px-4">Latest
Blogs</h3>{popularBlogs.slice(0, 5).map((blog) => (<div className="my-5 border-b-2 border-spacing-2 px-4"
key={blog.id}> <h4 className="font-medium mb-2"> {blog.title} </h4><Link to="/" className="font-medium
```

hover:text-orange-500 inline-flex items-center py-1">Read More <FaArrowRight className="mt-1 ml-2" />{" "}</Link></div>))}</div><div className="mt-3"><h3 className="text-2xl font-semibold px-4">Popular Blogs</h3>{popularBlogs.slice(6, 10).map((blog) => (<div className="my-5 border-b-2 border-spacing-2 px-4" key={blog.id}><h4 className="font-medium mb-2"> {blog.title} </h4> <Link to="/" className="font-medium hover:text-orange-500 inline-flex items-center py-1"> Read More <FaArrowRight className="mt-1 ml-2" />{" "} </Link></div>))} </div></div>);};export default Sidebar;

26. Lets add this on homePage:<div className="max-w-7xl mx-auto"><BlogSection /></div>

27.Student will create footer page.

28.Lets make singlePage->
For that create path-> <Route path="/blog/:id" element={<SingleBlog />} />
In blogCard link -> to={`/blog/${blog.id}`}
In singleBlog Page->import { useParams } from "react-router-dom";import { useEffect, useState } from "react";import { FaUser } from "react-icons/fa";import Sidebar from "../components/Sidebar";
const SingleBlog = () => {const { id } = useParams();const [article, setArticle] = useState(null);
useEffect(() => {fetch(`http://localhost:5000/articles/${id}`).then((res) => res.json()).then((data) => setArticle(data)).catch((error) => console.error("Error fetching data:", error)); }, [id]);if (!article) return <div>Loading...</div>;
return (<div className=""><div className="py-40 bg-black text-center text-white px-4"><h2 className="text-5xl lg:text-7xl font-bold mb-5">Single Blog Page </h2></div>
    {/* blog details */}
<div className="max-w-7xl mx-auto my-12 flex flex-col md:flex-row gap-12"><div className="lg:w-3/4 mx-auto"><div className=""> <imgsrc={article.image}className="w-full mx-auto rounded"alt="" /> </div><h2 className="text-3xl mt-8 font-bold mb-4 text-blue-500 cursor-pointer">{article.title}</h2><p className="mb-3 text-gray-600"><FaUser className="inline-flex items-center mr--2" /> {article.author} | {article.published_date} </p> <p className="mb-3 text-gray-600"><FaUser className="inline-flex items-center mr--2" /> {article.reading_time} </p><p className="text-base text-gray-500 mb-6"> {article.content} </p><div className="text-base text-gray-500">Lorem</div></div><div className="lg:w-1/2"><Sidebar /> </div></div></div>);};export default SingleBlog;