

Test Case 1

```
'use client'
import Image from 'next/image'
import { useEffect, useState } from 'react'
import { useRouter } from 'next/navigation'
import { useSession } from 'next-auth/react'
import getUserProfile from '@/libs/getUserProfile'

export default function Banner() {
  // const covers = ['/img/cover.jpg', '/img/cover2.jpg', '/img/cover3.jpg', '/img/cover4.jpg']
  // const [index, setIndex] = useState(0)

  const router = useRouter()

  const { data: session } = useSession();

  const token = session?.user.token;

  const [me, setMe] = useState<any>(null)

  useEffect(() => {
    const fetchMe = async () => {
      if (!token) return null
      const profile = await getUserProfile(token)
      setMe(profile)
    }
    fetchMe()
  }, [])

  return (
    <div className="block p-5 m-0 w-screen h-[80vh] relative flex flex-row items-center justify-center"
      style={{ backgroundColor: 'rgb(247, 238, 221)' }}>

      <div className="text-black text-left max-w-md rounded-lg p-10 mx-20 z-20 font-mono" style={{ backgroundColor: 'rgb(247, 238, 221)' }}>
        <h1 className="text-5xl font-bold text-amber-500 mb-10">CUO Dentist Clinic</h1>
        {
          session && me? <div className="font-semibold text-cyan-800 text-xl">Welcome {me.data.name}</div> : null
        }
        <button className="bg-blue-500 text-white text-2xl font-semibold py-2 px-2 my-8 rounded hover:bg-blue-400
          hover:text-blue-500" onClick={(e) => {e.stopPropagation(); router.push('/dentist')}}>
          Select Your Dentist
        </button>
      </div>

      <div className="flex-grow">
        <Image src="/img/cover1.jpg" alt="cover" fill={true} priority={true} className="object-cover w-[100%] h-[100%]" />
      </div>
    </div>
  )
}
```

Functionที่จะตรวจสอบคือ Banner โดย function นี้จะทำการแสดง Text เป็นชื่อของคลินิก และมีการแสดงรูปภาพเป็นพื้นหลัง และมีปุ่มเพื่อกดในการนำพาไปสู่หน้าแสดงหมอ

Test Case 1

```
import Banner from "@components/Banner";
import { render, screen } from "@testing-library/react";

jest.mock("next/navigation", () => ({
  useRouter() {
    return {
      prefetch: () => null
    };
  },
}));

jest.mock("next-auth/react", () => ({
  useSession() {
    return {
      data: null,
      user: { name: "Tester" }
    };
  }
}));

describe("Banner", () => {
  it("renders banner", () => {
    render(<Banner />);
    expect(screen.getByText("CUD Dentist Clinic")).toBeInTheDocument();
  });

  it("render button", () => {
    render(<Banner />);
    const button = screen.getByRole("button");
    expect(button).toBeInTheDocument();
  });

  it("render picture", () => {
    render(<Banner />);
    const image = screen.getByRole("img") as HTMLImageElement;
    expect(image.src).toContain("cover1.jpg");
  });
});
```

Test Case 1

```
PASS  __tests__/Simple.test.tsx
  Banner
    ✓ renders banner (46 ms)
    ✓ render button (58 ms)
    ✓ render picture (19 ms)

Test Suites: 1 passed, 1 total
Tests:       3 passed, 3 total
Snapshots:   0 total
Time:        1.971 s, estimated 2 s
```

Test Case 2

```
import Link from "next/link"
import Card from "../Card"

export default async function DentistCatalog({dentistsJson} : {dentistsJson: DentistJson}) {

  const dentistsJsonReady = dentistsJson

  return (
    <div className="bg-black rounded-lg pt-10 m-5 flex flex-wrap justify-center"
      style={{ backgroundColor: 'rgb(247, 238, 221)' }} >
      {
        dentistsJsonReady.data.map( (dentistItem) => (
          <Link href={` /dentist/${dentistItem._id}`} className="mx-20 mb-20 mt-10"
            key={dentistItem._id}>
            <Card key={dentistItem._id}
              dentistName={dentistItem.name}
              imgSrc={dentistItem.picture}
              areaOfExpertise = {dentistItem.areaOfExpertise}
              yearsOfExperience={dentistItem.yearsOfExperience} />
          </Link>
        )
      )
    </div>
  )
}
```

Functionที่จะตรวจสอบคือ DentistCatalog โดย function นี้จะทำการเอา ข้อมูลจาก dentistsJson มา map แล้ว สร้าง card ที่ link ไปยังหน้าที่เป็นหมอ คนนั้น ซึ่ง function ควร map และสร้าง card ที่มี ข้อมูลและจำนวนที่ถูกต้อง

Test Case 2

```
import DentistCatalog from "@components/DentistCatalog"
import { render, screen, waitFor } from "@testing-library/react"
```

```
const mockResult = {
  pagination: {},
  success: true,
  count: 4,
  data: [ {
    _id: "660183ff725eea4b26d90b30",
    name: "Boonyapatara",
    yearsOfExperience: "69",
    areaOfExpertise: "ปลูกฟันปลอม",
    picture: "/img/dentist3.jpg",
  },
  {
    _id: "660184ca725eea4b26d90b36",
    name: "Guntapong",
    yearsOfExperience: "13",
    areaOfExpertise: "รักษาฟันคุด",
    picture: "/img/dentist4.jpg",
  },
  {
    _id: "65fc87aec9158cef4a0e1725",
    name: "Jarukit",
    yearsOfExperience: "20000",
    areaOfExpertise: "ถอนฟัน",
    picture: "/img/dentist1.png",
  },
  {
    _id: "6602a0ef3cb29dcceb7b2b3e",
    name: "Mo",
    yearsOfExperience: "425",
    areaOfExpertise: "แปรงฟัน",
    picture: "/img/dentist2.jpg",
  }
]
```

```
describe('DentistCatalog', ()=>{
  it('should have correct number of dentist images', async ()=>{
    const dentistCatalog = await DentistCatalog({dentistsJson : mockResult})
    render(dentistCatalog)
    await waitFor(
      ()=> {
        const dentistImages = screen.queryAllByRole('img')
        expect(dentistImages.length).toBe(4)
      }
    )
  })
})
```

Test Case 2

```
PASS __tests__/Simple2.test.tsx
  DentistCatalog
    ✓ should have correct number of dentist images (171 ms)

Test Suites: 1 passed, 1 total
Tests:       1 passed, 1 total
Snapshots:   0 total
Time:        2.094 s
```