KRealEstate App-> A real modern designed estate React and Next.js application with rental homes and for sale properties advanced property filtering property details page with an image carousel and much more. I have learned advanced React JS knowledge, folder and file structure and hooks, Next.JS, static generation and server side rendering. I have also learned a lot on user interface creation using Chakra UI, and most importantly, I have learned techniques of fetching data from unlimited sources using Rapid API and the endpoints to get different properties, filtering to get property details.

Developing Languages, Tools, and Techniques Needed:

Vscode 1.74 https://code.visualstudio.com/updates/v1_74

JavaScript https://www.javascript.com/

Next.JS https://nextjs.org/

Chakra UI https://chakra-ui.com/

RapidAPI Bayut API https://rapidapi.com/apidojo/api/bayut

Prerequisites & Setups:

Initialize Next.js in Vscode terminal without using TypeScript or ESLint:

```
 npx create-next-app@latest ./
```

Create `.babelrc` file and input:

```
 { "presets": ["next/babel"],
   "plugins": [] }
```

Start the web server running at localhost:3000:

```
npm run dev
```

Install needed dependencies:

```
npm install @chakra-ui/react @emotion/react @emotion/styled axios
framer-motion millify nprogress react-horizontal-scrolling-menu
react-icons
```

Synchronous Developing Notes:

Import banner images in `pages/index.js`:

```
      <Banner
        purpose="RENT A HOME"
        title1="Rental Homes for"
        title2="Everyone"
        desc1="Explore Fancy Apartments, Villas, Homes!"
        desc2="and more!"
        buttonText="Explore Renting!"
       linkName="/search?purpose=for-rent"
imageUrl="https://bayut-production.s3.eu-central-1.amazonaws.com/image
/145426814/33973352624c48628e41f2ec460faba4"
...
```

Configure image sources in `next.config.js`:

```
 module.exports = {
   reactStrictMode: true,
   images:{
     domains:['bayut-production.s3.eu-central-1.amazonaws.com']}}
```

Javascript validation error: [js] `File is a CommonJS module; it may be converted to an ES6 module.`DBUGGING: Disable them by setting: `"typescript.suggestionActions.enabled": false` or `"javascript.suggestionActions.enabled": false` in user/workspace settings in `vscode/settings.json`.

banner images imported.PNG

Fetch real estate properties data from RapidAPI https://rapidapi.com/apidojo/api/bayut

```
 console.log(propertyForSale, propertyForRent);
```

data fetched in console.PNG

Import assets images in `Property.jsx`:

```
 const Property = ({ property: { coverPhoto, price, rentFrequency,
rooms, title, baths, area, agency, isVerified, externalID } }) => (
    <Link href={`/property/${externalID}`} passHref>
        <Flex flexWrap="wrap" w="420px" p="5" paddingTop="0"
justifyContent="flex-start" cursor="pointer">
            <Image src={coverPhoto ? coverPhoto.url :
DefaultImage} width={400} height = {260} alt = "house"/>
          </Box>
...
```

Get statics props and customize layout in `Layout.jsx`.

```
export async function getStaticProps() {
  const propertyForSale = await
fetchApi(`${baseUrl}/properties/list?locationExternalIDs=5002&purpose=
for-sale&hitsPerPage=6`);
  const propertyForRent = await
fetchApi(`${baseUrl}/properties/list?locationExternalIDs=5002&purpose=
for-rent&hitsPerPage=6`);
```

layout done customizing.PNG

Navbar Customization:

Implement all sections of navbar in `Navbar.jsx`:

```
  <MenuButton as={IconButton} icon={<FcMenu />} variant='outline'
color='red.400' />
              <MenuList>
                  <Link href='/' passHref>
                      <MenuItem icon={<FcHome />}>Home</MenuItem>
                  </Link>
 ...
```

navbar done customizing.PNG

Footer Customization:

Implement Footer in `Footer.jsx`:

```
const Footer = () => (
```

```
    <Box textAlign='center' p='5' color='gray.600' borderTop='1px'
borderColor='gray.100'>
        © 2022 K-Real Estate, Inc.
    </Box>
...
```

footer done customizing.PNG

Search Page:

Add `SearchFilter.jsx` and `dataFilter.js` to implement search bar:

search by filter done implementing.PNG

Implement all sections in navbar:

buy property section done implementing.PNG

rent property section done implementing.PNG

NextJS deprecated Error: `<Link>` no longer has `<a>` as its child. DEBUGGING: replace `import next/image` to `next/legacy/image`. Replace `<a></a>` with `<legacyBehavior></legacyBehavior>` and so: `<Link href={linkName}><legacyBehavior>{buttonText}</legacyBehavior></Link>`