

Image Carousel

I have created an API on the server to display a list of image URLs that will be used as banners.

you can see the source code here: </home/cayden/nodejs/production/controllers/newsController.js>

```
exports.banner = async (req, res) => {
  try {
    data = [
      process.env.BASE_URL + "images/banner/1.png",
      process.env.BASE_URL + "images/banner/2.png",
      process.env.BASE_URL + "images/banner/3.png",
    ];

    res.status(200).json({ success: true, data: data });
  } catch (error) {
    res.status(500).json({ success: false, message: error.message });
  }
};
```

you can access this API with this link:

<https://tempdev2.roomie.id/newsadmin/banner>

To displaying list of images in our mobile app, follow these steps below.

we will use axios to accessing HTTP URL. Install axios with this command:

npm install axios

Install react-native-reanimated-carousel to display images as carousel banner with this command:

npx expo install react-native-reanimated-carousel

Edit **app\((tabs)\index.tsx** with this code:

```
import React, { useState, useEffect } from "react";

import { View, StyleSheet, ScrollView, Dimensions } from "react-native";
import { Image } from "expo-image";
import { ThemedView } from "@components/ThemedView";
import { SafeAreaView } from "react-native-safe-area-context";
import axios from "axios";
import Carousel, {
  ICarouselInstance,
  Pagination,
} from "react-native-reanimated-carousel";
import { useSharedValue } from "react-native-reanimated";
import { useColorScheme } from "@hooks/useColorScheme";
import { Colors } from "@constants/Colors";

//get display width
const width = Dimensions.get("window").width;

export default function HomeScreen() {
  //define empty array variable for images
  const [banners, setBanners] = useState([]);

  //set themes color according to device themes
  const colorScheme = useColorScheme();
  const themeCarousel =
    colorScheme === "light" ? styles.carouselLight : styles.carouselDark;
```

```

//call loadData function only once when the home page appears
useEffect(() => {
  loadData();
}, []);

//get data from server
const loadData = async () => {
  axios
    .get(`https://tempdev2.roomie.id/newsadmin/banner`, {})
    .then(function (response) {
      if (response.data.success == true) {
        //set banner variable with data from API
        setBanners(response.data.data);
      }
    });
};

const ref = React.useRef<ICarouselInstance>(null);
const progress = useSharedValue<number>(0);
const onPressPagination = (index: number) => {
  ref.current?.scrollTo({
    count: index - progress.value,
    animated: true,
  });
};

//content of the image banner to be rendered
const renderItem = ({ item }: { item: string }) => {
  return (
    <View
      style={{
        flex: 1,
        justifyContent: "center",
      }}
    >
      <Image
        style={styles.imageBanner}
        source={item}
        contentFit="contain"
      />
    </View>
  );
};

return (
  <SafeAreaView style={styles.saveContainer}>
    <ScrollView>
      <ThemedView style={styles.imageLogoContainer}>
        <Image
          style={styles.imageLogo}
          source={require("@/assets/images/logo.svg")}
          contentFit="contain"
        />
      </ThemedView>

      <View style={[[themeCarousel]]>

```

```

        <Carousel
            ref={ref}
            width={width}
            height={width / 2 - 22}
            data={banners}
            onProgressChange={progress}
            renderItem={renderItem}
            loop={true}
            autoPlay
            autoPlayInterval={5000}
            mode="parallax"
        />

        <Pagination.Basic
            progress={progress}
            data={banners}
            dotStyle={{
                backgroundColor: "rgba(0,0,0,0.2)",
                borderRadius: 50,
            }}
            containerStyle={{ gap: 10, marginTop: 0 }}
            onPress={onPressPagination}
        />
    </View>
</ScrollView>
</SafeAreaView>
);
}

```

```

const styles = StyleSheet.create({
    saveContainer: {
        flex: 1,
    },
    imageLogoContainer: {
        flex: 1,
        flexDirection: "column",
        alignItems: "center",
        height: 80,
        paddingTop: 10,
        marginBottom: 0,
    },
    imageLogo: {
        width: 80,
        height: 80 * (144 / 165),
    },

    carouselLight: {
        backgroundColor: Colors.light.background,
    },
    carouselDark: { backgroundColor: Colors.dark.background },
    imageBanner: {
        width: "100%",
        height: "100%",
    },
});

```

Run project with this command:

npx expo start

Result:

