Code explain

Liquid Swipe - “Can it be done in React Native?”

<https://www.youtube.com/watch?v=6jxy5wfNpk0&list=PLkOyNuxGl9jxB_ARphTDoOWf5AE1J-x1r&index=2>

Code First Time

Graphical user interface, text

Description automatically generated with medium confidence

Assets:

1

2

3

4

5

A cup of pink liquid

Description automatically generated with low confidence

A picture containing vegetable

Description automatically generatedGraphical user interface

Description automatically generated

A bowl of peas

Description automatically generated with low confidenceA picture containing container, blue, plastic, different

Description automatically generated

**Data:**

const slides = [

{

color: '#F2A1AD',

title: 'Dessert Recipes',

description:

'Hot or cold, our dessert recipes can turn an average meal into a memorable event',

picture: require('./assets/1.png'),

},

{

color: '#0090D6',

title: 'Healthy Foods',

description:

'Discover healthy recipes that are easy to do with detailed cooking instructions from top chefs',

picture: require('./assets/5.png'),

},

{

color: '#69C743',

title: 'Easy Meal Ideas',

description:

'explore recipes by food type, preparation method, cuisine, country and more',

picture: require('./assets/4.png'),

},

{

color: '#FB3A4D',

title: '10000+ Recipes',

description:

'Browse thousands of curated recipes from top chefs, each with detailled cooking instructions',

picture: require('./assets/2.png'),

},

{

color: '#F2AD62',

title: 'Video Tutorials',

description:

'Browse our best themed recipes, cooking tips, and how-to food video & photos',

picture: require('./assets/3.png'),

},

];

export default slides;

Code First Time:

A picture containing graphical user interface

Description automatically generated

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**LiquidSwipe**

import React, {useState} from 'react';

import slides from './data';

import Slider from './Slider';

import Slide from './Slide';

export const assets = slides.map(({picture}) => picture);

const LiquidSwipe = () => {

const [index, setIndex] = useState(1);

const prev = slides[index - 1];

const next = slides[index + 1];

console.log('assets: ', assets);

return (

<Slider

key={index}

index={index}

setIndex={setIndex}

prev={prev && <Slide slide={prev} />}

next={next && <Slide slide={next} />}>

<Slide slide={slides[index]!} />

</Slider>

);

};

export default LiquidSwipe;

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Side.tsx

import Color from 'color';

import React from 'react';

import {View, Text, StyleSheet, Dimensions, Image} from 'react-native';

import Svg, {RadialGradient, Defs, Rect, Stop} from 'react-native-svg';

const {width, height} = Dimensions.get('screen');

const SIZE = width - 75;

const styles = StyleSheet.create({

container: {

...StyleSheet.absoluteFillObject,

padding: 75,

paddingTop: 150,

alignItems: 'center',

},

image: {

width: SIZE,

height: SIZE,

},

title: {

fontSize: 48,

color: 'white',

textAlign: 'center',

marginBottom: 16,

// fontFamily: 'SFProDisplay-Bold',

fontFamily: 'SFProDisplay-Semibold',

},

description: {

fontSize: 18,

color: 'white',

textAlign: 'center',

fontFamily: 'SFProDisplay-Regular',

},

});

interface SlideProps {

slide: {

color: string;

title: string;

description: string;

picture: ReturnType<typeof require>;

};

}

const Slide = ({slide: {picture, color, title, description}}: SlideProps) => {

const lighterColor = Color(color).lighten(0.8).toString();

// console.log('lighterColor: ', lighterColor);

return (

<>

<Svg style={[StyleSheet.absoluteFill]}>

<Defs>

<RadialGradient id="gradient" cx="50%" cy="35%">

<Stop offset="0%" stopColor={lighterColor} />

<Stop offset="100%" stopColor={color} />

</RadialGradient>

</Defs>

<Rect x={0} y={0} width={width} height={height} fill="url(#gradient)" />

</Svg>

<View style={styles.container}>

<Image source={picture} style={styles.image} />

<View>

<Text style={styles.title}>{title}</Text>

<Text style={styles.description}>{description}</Text>

</View>

</View>

</>

);

};

export default Slide;

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Slider.tsx

import React from 'react';

import {View, Text, StyleSheet} from 'react-native';

import Wave, {HEIGHT, WIDTH, MARGIN\_WIDTH, Side} from './Wave';

import Button from './Button';

const PREV = WIDTH;

const NEXT = 0;

interface SliderProps {

index: number;

setIndex: (value: number) => void;

children: JSX.Element;

prev?: JSX.Element;

next?: JSX.Element;

}

const Slider = ({

index,

children: current,

prev,

next,

setIndex,

}: SliderProps) => {

const hasPrev = !!prev;

const hasNext = !!next;

console.log('prev: ', prev);

console.log('next: ', next);

console.log('current: ', current);

return (

<View

style={[

StyleSheet.absoluteFill,

// {backgroundColor: 'red', borderWidth: 1},

]}>

{current}

{prev && (

<View style={[StyleSheet.absoluteFill]}>

<Wave side={Side.LEFT}>{prev}</Wave>

</View>

)}

{next && (

<View style={[StyleSheet.absoluteFill]}>

<Wave side={Side.RIGHT}>{next}</Wave>

</View>

)}

</View>

);

};

export default Slider;

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Wave.tsx

import React, {ReactNode} from 'react';

import {StyleSheet, Dimensions} from 'react-native';

import MaskedView from '@react-native-community/masked-view';

import Svg, {Path} from 'react-native-svg';

import Animated, {

Extrapolate,

interpolate,

useAnimatedProps,

useDerivedValue,

withSpring,

} from 'react-native-reanimated';

export const {width: WIDTH, height: HEIGHT} = Dimensions.get('screen');

export const MIN\_LEDGE = 25;

export const MARGIN\_WIDTH = MIN\_LEDGE + 50;

const AnimatedPath = Animated.createAnimatedComponent(Path);

export enum Side {

LEFT,

RIGHT,

NONE,

}

interface WaveProps {

side: Side;

children: ReactNode;

}

const Wave = ({side, children}: WaveProps) => {

// const animatedProps = useAnimatedProps(() => {

// const d = ['M 0 0', `H ${WIDTH / 2}`, `V ${HEIGHT}`, 'H 0', 'Z'];

// return {

// d: d.join(' '),

// };

// });

return (

<MaskedView

style={[StyleSheet.absoluteFill]}

maskElement={

<Svg style={StyleSheet.absoluteFill}>

{/\* <AnimatedPath animatedProps={animatedProps} fill="black" /> \*/}

</Svg>

}>

{children}

</MaskedView>

);

};

export default Wave;

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