FRAMER MOTTON

- · animation library for react.
- · Installation

npm install framer-motion

· Basic Animations

import

import & motion I from Framer-motion

< h2> > < motion . h2</p>

arimate = 22 fontSize: 50/3> Hello world Jsx = 50px

41 motion . h2) 21:100, y=-100 (to from original position)

rotatex, rotatey, rotatez (rotatez: 180)

button> > < motion . button

animate = 22 Scale: 1.233

Create your Pizza

</motion . button>

· Initial Value (setting stood point)

1) Move head title from Sorven top down to its real position - 10 PX

Linotion div classiane = "title"

inited = ? { y: -250 }}

animate = { { y : 10 } }

(hi> Pizza Joint (/hi)

L/motion div >

note

-20, -10 etc are offset value

Hon load size increases

· - 10 means - 10 px relative to initial position

```
2) on selection of pizza base bring select button from left of screen
       ? pizza, base 88 [

// Conotion . div class Name = "next"

               initial = ? { n: "-100 vw" }}
            animate = { ? n : 0 } }
              ( Link to = "/toppings'>
                 Lbutton > Next 2/6utton >
             21 Link >
           1/ motion , div >
· Adding speled, delay
         using transition
   # specifies time from initial to animate
   types = "spring" "trocen" inertia"
     for some components default is sipping & for some it is "tween" (smooth one)
 (g) (motion div class Name = "title"
         initial = } } y: -2503}
          transition = 22 delay: 0,2, type: 'spring', stiffners: 12033
          animate = 7 £ y: -1033
                                                               # more Stiffness more
                                                                 spring effect.
            <hi>> Pizza Joint </hi>
                                                               # Stiffness can only be
        [/motion, div >
                                                                  added with spring
 (J2) Emotion div className = "home container"
        initial = 35 opacity : 03)
        animate = 35 opacity: 19)
                                                          # dyration can only be
        townsition = { { delay: 0.4, duration: 3}}
                                                              added with tween type
                                                              for this div default
                                                               was tween.
```

```
· Hover Effect
   1) add shadow on hover to button
      < motion . button
           while flover = 82
               tent Shadow: "Opx Opx 8px rgb(255, 255, 255)"
               Sall: 1.1,
                bon Shadow: "Opx Opx 8px rab (255, 255, 255)"
             Create your Pizza
          21 motion button>

Linotion li key = 3 topping 3 on click = ? () => add Topping (topping) 3

  2) on hover change color
         Dhile Haver = 33 Deale: 1.3, originx: 0, color: # f8e 112, 37
          transition = 32 type: "spring", stiffners : 300 33
                                                        # origin : 0 so sale on
                                                                      right side.
         1 motion . li>
 · Variants
    variants allow you to define animation states and organise them by name.
    They allow you to control animations throughout a component tree by switching
     a single animate prop.
                          , any Name
eg outside return
                                                     < motion div
    const container Variants = ?
                                           in div
                                                        variants = { container Variants }
        hidden: }
                              # can give any
                                                         initial = hidden"
              opacity:0,
                                rame like
                                                         animate = "visible"
                               hidden , Start
               X : ' 60 V W'
                                                         teansition = 33 type : "spring" }}
                               this is just eg
         visible: }
            opacity 1,
```

```
· can even send toursetion to it
  Const next Variant = {
                                              Smotion, div
     Start: }
                                                 variants - I next Variant 3
         opacity o,
                                                 initial = Start"
         x . " 100 VW
                                                 animate = "final"
      final : 3
         opacity: 1,
         x 10,
         transition : ?
           type: "spring",
   delay: 0.53
# wesking with parent & children
     # no need to give initial lanimente property to child if variables are
       defined with same name in parent & child.
                                                                and container Variounts = }
     (motion-div
                                                                     hidden: ?
        variants = { containerVariant }
                                                                        opacity:0,
       initial = "hidden"
                                                                         X : 1001W
        animate = "visible"
                                                                      3 visible: 8
     <h2> Thank you for the order:) </h2>
                                                                          opacity: 1,
                                                                            n:0,
       < motion P
        variants = ? child variant }
                                                                          transition ?
                                                                             type: spring;
         you ordered a & pizza base I with:
                                                                           mass: 0,4
                                                                            damping 9.

4/motion. P>
                                                                            when before Children
      L motion, div
         variants = ? child Variant 3 # child not
                                                                          StuggerChildren: 0.4
        à pizza toppings map (topping >>
                                                                 const Child Variant = ?
          <div key = ?topping ? > ? topping 3</div) }</pre>
                                                                     hidden: }
                                                                        opacity:0
       (/ motion .dw)
                                                                     visible: }
                                                                          spacety = 1
                                                                       4
          # when > decide purent animation cost children
          # Stagger Children; time beth each children
```

```
Key Frames

used when want several transitions together.

9 lift right bill right...
```

```
in a varient

Visible: 1

X: [0, -20, 20, -20, 20, 0]

transition: 3 delay: 23

mevement in n direction
```

< motion .butter

variants = _ _ _
animate = visible "
>

enst button Variables = {

hover: ?

Scale: 1.1, # can give key frame too [1,2,0,3] -
--
transition:?

duration: 0.3,

yoyo: Infinity # apply infinite time key frame value

and o yoyo: so go through transition

to times

```
· Animate Presence
  eg, want to remove he after 4 sec with animation go above
   > const [show Title, set Show Title] = use State (tow);
        Set Timeout (1) → ?
             Set Show Title (false);
          5, 4000);
  now, import 3 motion, Animale Presence & from framer-motion;
                                           & sel format for conditional rendering
         < Animate Presence>
             { Show Title & (
                L motion . h2
                    enit = 39 y: -1000 33
                > Thank you for order 1/motion. h2>
         </Animate Presence>
· Animate Routes
   Shen page charges have transition
inside App.js where rending is done.
   impost 3 Route, Switch, useLocation 3 from "xact-souter-dom";
   import ? Animate Presence? from "framer-motion";
     Correct location = use Location ();
        LSwitch location = ? location } key = ? location. Key }>
    < Animate Presence >
                                                     It in Buse, Toppings et components
            < Route Path = "/base">
                                                         add exist
                 < Base 17
                                                      It now must have to apply exit
             < | Route >
              < Route path = "/toppings">
                                                         to all . else they will
                  < Toppings pizza = & pizza } 17
                                                          be shown cut one page
                                                          ( won't be removed )
                4 1 Rant >
                                                If no routing ent's applied
```

transition Houting will occur

4/Switch>

(Animate Presence)

```
in eg (Base 7, < Topping >
    in Base. 13
 const container Variants = &
                                                    Lonation div
       hidden: 3
                                                       variants = ? container Variants?
           opacity:0,
                                                        initial = "hidden"
             X : 100 VW
        Visible : 3
                                                        animate = "visible
                                                        enit = "enit"
             opocity: 1,
              n:0,
              transition ?
                 type: "spring",
                 delay: 0.5]
               oxit : }
                x: '-100VQ',
                transition: 2 ease: 'ease InOut's
                                             < motion. Svy class Name = "pizza -svg"
D'vg animation,
                                                xmln3 = "http://www.w3.009/2000 (svg)
      Const sygvariants = ?
    hidden: ? rotate: -180},
                                                ViewBon = "0 0 00 100"
                                                variants = { sug Variants }
    visible: {
                                                initial = "hidden"
       rotate: 0,
                                                animate = "visible
       transition: { duration: 1}
                                                Cmotion path
                                                  fill = "none"
  const path Variants = {
                                                  d = "M40 40 L80 C80 40 80 80 40 80 C40
                                                     80 0 80 0 40 00 40 00 40 0Z
    hidden: ?
       opacity:0,
                                                  variants = { path variants }
      pathlength: 0
                                               ( motion, path
     visible: {
                                                  Variants = Spath Variants 3
        opacity: 1,
                                                  fill = "none"
        pathlength: 1,
                                                  d = MS0 30 L50 -10 C50 -10 90 -10 90 30
        transition: 3
                                                      7
    3 case: "easeInOut"
                                              21 motion, sug >
```

```
import Read from "sead";
import 3 motions from "Framer motion";
Const loader Variants = ?
     animate One: 3
          n: [-20,20].
          y: [0,-30],
          transition: &
             21:5
                yoyo: Infinity,
               duration: 0.5
             9:3
                yoyo: Infinity,
               duration: 0.25,
                ease: "easeOut"
          3
const Loader = () > ?
    return (
        17
        < motion . div class Name = "loader"
        variants = { loader Variants }
        animate = "animation One"
        (Imotion div >
```

215

enport default Loader;

in inden css (no need to call, already upplied to all elements since called in index, html) · loader 3 width : lopx; height: lopx; morgin: 40 px auto; booder - ractius: 50%; background: #fff;

```
# Use Cycle hooks
         ( to switch bet onimations)
                                             · impost Imotion, use Cycle I from
   Const Loader Variants = }
                                                    "framor-motion";
         animation One: {
         animation Two: }
 > onst [animation, cycle Animation] = use Cycle ("animationOne", "unimationTwo")
            <-- commate = { animation }
      & Ldiv on dick = {() > cycle Animation () } > Cycle Loader (/div)
# deagging items & wrap Op
  ey drag lego
       < motion, dir class Name = "logo"
        drag
        drag Contraints = ? ? left :0, top:0, right:0, bottom:0}}
                                                         C brings back to this
        doag Flastic = $ 0.73
                        I more the value
                                                           position
                            casier to dray.
```

(Imotion div)