Web application development

(Introduction to Basic React)

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S³T

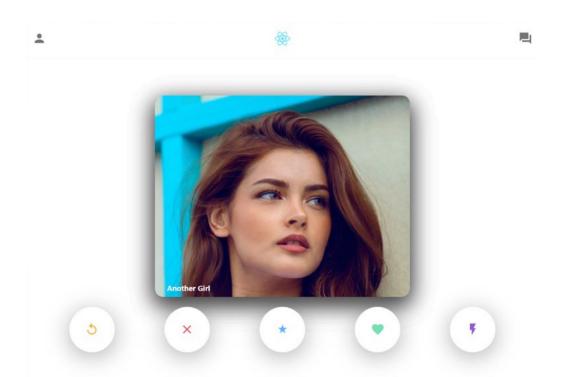
Smart Software System Team

"We love what we do and we do what our clients love & work with great clients all over the world to create thoughtful and purposeful websites."

— ProWeb365



Basic React – Exercise 1 – Create tinder "phake" app





Basic React – Exercise 1 – Create tinder "phake" app – Front End – app.js and Header

```
import './App.css';
import DatingCards from './components/DatingCards';
import Header from './components/Header';
import SwipeButtons from './components/SwipeButtons';
function App() {
  return (
   <div className="app">
     <Header />
     <DatingCards />
     <SwipeButtons />
   </div>
export default App;
```

```
import React from 'react'
import './Header.css'
import PersonIcon from '@material-ui/icons/Person'
import IconButton from '@material-ui/core/IconButton'
import ForumIcon from '@material-ui/icons/Forum'
const Header = () => {
    return (
        <div className="header">
            <IconButton>
                <PersonIcon fontSize="large" className="header__icon" />
            </TconButton>
            <img className="header logo" src="logo192.png" alt="header" />
               import IconButton 'ce="large" className="header_icon" />
            </IconButton>
        </div>
export default Header
```



Basic React – Exercise 1 – Create tinder "phake" app – Front End - DatingCard

```
import React, { useState, useEffect } from 'react'
import DatingCard from 'react-tinder-card'
import './DatingCards.css'
import axios from './axios'
const DatingCards = () => {
    const [people, setPeople] = useState([])
    useEffect(() => {
        async function fetchData() {
            const reg = await axios.get("/dating/cards")
            setPeople(req.data)
        fetchData()
    const swiped = (direction, nameToDelete) => {
        console.log("receiving " + nameToDelete)
    const outOfFrame = (name) => {
        console.log(name + " left the screen!!")
    return (
        <div className="datingCards">
            <div className="datingCards container">
                {people.map((person) => (
                    <DatingCard
                        className="swipe"
                        key={person.name}
                        preventSwipe={['up', 'down']}
                        onSwipe={(dir) => swiped(dir, person.name)}
                        onCardLeftScreen={() => outOfFrame(person.name)}
                        <div style={{ backgroundImage: `url(${person.imgUrl})`}} className=</pre>
                            <h3>{person.name}</h3>
                        </div>
```



Basic React – Exercise 1 – Create tinder "phake" app – Front End – Swipe Button

```
import React from 'react'
import './SwipeButtons.css'
import ReplayIcon from '@material-ui/icons/Replay'
import CloseIcon from '@material-ui/icons/Close'
import StarRateIcon from '@material-ui/icons/StarRate'
import FavoriteIcon from '@material-ui/icons/Favorite'
import FlashOnIcon from '@material-ui/icons/FlashOn'
import IconButton from '@material-ui/core/IconButton'
const SwipeButtons = () => {
   return (
       <div className="swipeButtons">
            <IconButton className="swipeButtons repeat">
               <ReplayIcon fontSize="large" />
           </IconButton>
            <IconButton className="swipeButtons_left">
               <CloseIcon fontSize="large" />
           </IconButton>
            <IconButton className="swipeButtons star">
               <StarRateIcon fontSize="large" />
           </IconButton>
            <IconButton className="swipeButtons right">
               <FavoriteIcon fontSize="large" />
           </TconButton>
           <IconButton className="swipeButtons lightning">
               <FlashOnIcon fontSize="large" />
           </IconButton>
        </div>
export default SwipeButtons
```



Basic React – Exercise 1 – Create tinder "phake" app – Front End – Connect to BE

```
import axios from 'axios'

const instance = axios.create({
    baseURL: "YourBackendURL"
})

export default instance
```



Basic React – Exercise 1 – Create tinder "phake" app – Back end

- Set up firebase
- Set up mongoDB
 - npm i express mongoose
 - npm i nodemon



Basic React – Exercise 1 – Create tinder "phake" app – Backend – database card schema

```
import mongoose from 'mongoose'

const cardSchema = mongoose.Schema({
    name: String,
    imgUrl: String
})

export default mongoose.model('cards', cardSchema)
```



Basic React – Exercise 1 – Create tinder "phake" app – Backend – Server

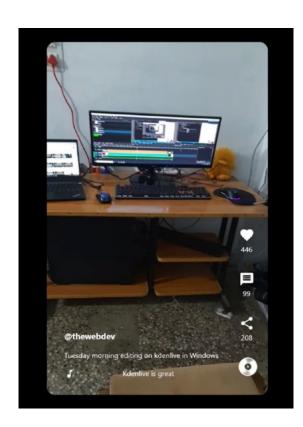
```
import express from 'express'
import mongoose from 'mongoose'
import Cors from 'cors'
import Cards from './dbCards.js'
//App Config
const app = express()
const port = process.env.PORT || 8001
const connection url = 'mongodb+srv://admin:your password@cluster0.lggjc.mongodb.net/datingDB?retrvWm
//Middleware
app.use(express.json())
app.use(Cors())
//DB Config
mongoose.connect(connection url, {
   useNewUrlParser: true,
   useCreateIndex: true,
   useUnifiedTopology: true
```



Basic React – Exercise 1 – Create tinder "phake" app – Backend – Server

```
//API Endpoints
app.get("/", (req, res) => res.status(200).send("Hello TheWebDev"))
app.post('/dating/cards', (req, res) => {
    const dbCard = req.body
    Cards.create(dbCard, (err, data) => {
        if(err) {
            res.status(500).send(err)
        } else {
            res.status(201).send(data)
app.get('/dating/cards', (req, res) => {
    Cards.find((err, data) => {
        if(err) {
            res.status(500).send(err)
        } else {
            res.status(200).send(data)
app.listen(port, () => console.log(`Listening on localhost: ${port}`))
```





```
import React, { useState, useEffect } from 'react
import './App.css';
import Video from './components/Video';
import axios from './components/axios';
function App() {
 const [videos, setVideos] = useState([])
 useEffect(() => {
   async function fetchData() {
        const res = await axios.get("/v2/posts")
        setVideos(res.data)
        return res
    fetchData()
  return (
    <div className="app">
      <div className="app__videos">
        {videos.map(({ url, channel, description, song, likes, shares, messages }) => (
            <Video
             kev={url}
             url={url}
             channel={channel}
             description={description}
              song={song}
              likes={likes}
              shares={shares}
             messages={messages}
      </div>
    </div>
export default App:
```

```
scroll-snap-type: y mandatory;
.app{
   height: 100vh;
   background-color: □black;
   display: grid;
   place-items: center;
.app__videos{
   position:relative;
   height: 800px;
   border-radius: 20px;
   overflow: scroll;
   width: 80%;
   max-width: 500px;
   scroll-snap-type: y mandatory;
.app__videos::-webkit-scrollbar{
   display: none;
.app__videos{
   -ms-overflow-style: none;
   scrollbar-width: none;
```

```
import React, { useRef, useState } from 'react
import './Video.css'
import VideoFooter from './VideoFooter'
import VideoSidebar from './VideoSidebar'
const Video = ({ url, channel, description, song, likes, shares, messages }) => {
   const [playing, setPlaying] = useState(false)
   const videoRef = useRef(null)
   const handleVideoPress = () => {
       if(playing){
           videoRef.current.pause()
           setPlaying(false)
         else {
           videoRef.current.play()
           setPlaying(true)
   return
       <div className="video">
           <video
               src={url}
               className="video player"
               loop
               ref={videoRef}
               onClick={handleVideoPress}
           <VideoFooter channel={channel} description={description} song={song} />
           <VideoSidebar likes={likes} shares={shares} messages={messages} />
       </div>
export default Video
```

```
.video{
    position: relative;
   background-color: □white;
   width: 100%;
   height:100%;
   scroll-snap-align: start;
.video__player{
   object-fit: fill;
   width: 100%;
   height: 100%;
```

```
import React from 'react'
import './VideoFooter.css'
import MusicNoteIcon from '@material-ui/icons/MusicNote'
import Ticker from 'react-ticker'
const VideoFooter = ({ channel, description, song }) => {
   return (
       <div className="videoFooter">
           <div className="videoFooter text">
               <h3>@{channel}</h3>
               {description}
               <div className="videoFooter__ticker">
                   <MusicNoteIcon className="videoFooter icon" />
                   <Ticker mode="smooth">
                       {({ index }) => (
                               {sona}
                   </Ticker>
               </div>
           </div>
           <img className="videoFooter record" src="your-video-icon" alt="video footer" />
       </div>
export default VideoFooter
```

```
.videoFooter{
   position: relative;
   color: □white;
   bottom: 150px:
   margin-left: 40px;
   display: flex;
.videoFooter__text{
   flex: 1;
.videoFooter__text > h3{
   padding-bottom: 20px;
.videoFooter text > p{
   padding-bottom: 20px;
.videoFooter__icon{
   position: absolute;
.videoFooter__ticker > .ticker{
   height: fit-content;
   margin-left: 30px;
   width: 60%:
.videoFooter record{
   animation: spinTheRecord infinite 5s linear;
   height: 50px:
   filter: invert(1);
   position: absolute;
   bottom: 0;
   right: 20px;
```

```
import React, { useState } from 'react'
import './VideoSidebar.css'
import FavoriteIcon from '@material-ui/icons/Favorite'
import FavoriteBorderIcon from '@material-ui/icons/FavoriteBorder'
import MessageIcon from '@material-ui/icons/Message'
import ShareIcon from '@material-ui/icons/Share'
const VideoSidebar = ({ likes, shares, messages }) => {
   const [liked, setLiked] = useState(false)
   return (
       <div className="videoSidebar">
           <div className="videoSidebar button">
               { liked ? <FavoriteIcon fontSize="large" onClick={e => setLiked(false)} /> : <FavoriteBorderIcon fontSize="large" onClick={e => setLiked(true)} />
               {liked ? +likes + 1 : likes}
           <div className="videoSidebar__button">
               <MessageIcon fontSize="large" />
               {messages}
           <div className="videoSidebar button">
               <ShareIcon fontSize="large" />
               {shares}
           </div>
       </div>
 export default VideoSidebar
```

```
.videoSidebar{
   position: absolute;
   top: 50%;
   right: 10px;
   color: ■white;
}

.videoSidebar_button{
   padding: 20px;
   text-align: center;
}
```

```
import axios from 'axios'

const instance = axios.create({
    baseURL: "your-backend-heroku-url"
})

export default instance
```

```
import mongoose from 'mongoose'
const shortVideoSchema = mongoose.Schema({
    url: String,
    channel: String,
    description: String,
    song: String,
    likes: String,
    shares: String,
    messages: String
export default mongoose.model('shortVideos', shortVideoSchema)
```

```
import express from 'express'
import mongoose from 'mongoose'
import Cors from 'cors'
import Videos from './dbModel.js'
//App Config
const app = express()
const port = process.env.PORT || 9000
const connection_url = 'your-mongodb-api-url'
app.use(express.json())
app.use(Cors())
//DB Config
mongoose.connect(connection url, {
   useNewUrlParser: true,
   useCreateIndex: true,
   useUnifiedTopology: true
//API Endpoints
app.get("/", (req, res) => res.status(200).send("He so lo , ho so ly ly"))
app.post('/v2/posts', (reg, res) => {
   const dbVideos = req.body
   Videos.create(dbVideos, (err, data) => {
        if(err)
            res.status(500).send(err)
       else
            res.status(201).send(data)
```

```
app.get('/v2/posts', (req, res) => {
    Videos.find((err, data) => {
        if(err) {
            res.status(500).send(err)
        } else {
            res.status(200).send(data)
        }
    })
}/Listener
app.listen(port, () => console.log(`Listening on localhost: ${po
```

Q & A





Thank you for cooperating Gét gô

"Coming together is a beginning; Keeping together is progress; Working together is success."
- HENRY FORD