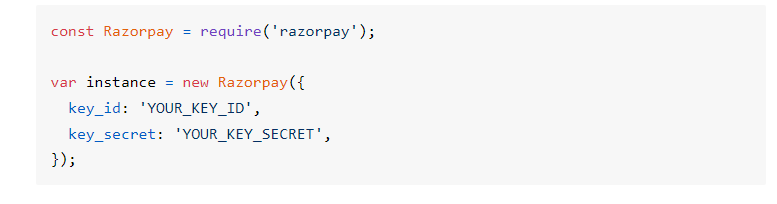
# Razor Pay

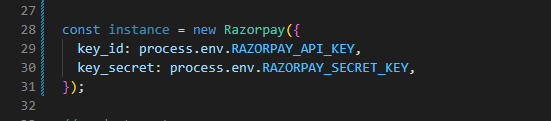
* Visit the Razor pay website but you will not find it so visit this link

( <https://dashboard.razorpay.com/app/website-app-settings/api-keys> )

* After creating an account you will find an API KEY and past that API KEY and SECRET KEY to you backend config file
* Install razor in backend by visiting this link <https://www.npmjs.com/package/razorpay>
* By the help of above link create an instance like in server.js file
* Warning if you don’t use ES6 Import instance from “razorpay” then I will not work so for this use type: “module” in json file in backend



In app.js in backend it look like



Now follow the link

<https://razorpay.com/docs/payments/server-integration/nodejs/payment-gateway/build-integration/>

use this in code using the above link

const Razorpay = require("razorpay");

const instance = new Razorpay({

  key\_id:"rzp\_test\_mFRPpL3UmG6jAw",

  key\_secret: "Fqtl97MEgSMhlpJrz5RMqboq",

});

* Public html main ye add kro through which you can acces the window.Razorpay

    <script src="https://checkout.razorpay.com/v1/checkout.js"></script>

Now All you need is four function on paymentController.js but first routes

//router file in routes

const express = require("express")

const router = express.Router()

const {authentication} = require("../Authentication/auth")

const {processPayment, paymentVerification, sendAPiKEY, placeOrder} = require("../controllers/paymentController")

router.route("/payment/process").post(authentication,processPayment)

router.route("/paymentVerification").post(authentication,paymentVerification)

router.route("/razorApiKey").get(authentication,sendAPiKEY)

router.route("/placeOrder").put(authentication,placeOrder)

module.exports = router

const Razorpay = require("razorpay");

const instance = new Razorpay({

  key\_id: "rzp\_test\_mFRPpL3UmG6jAw",

  key\_secret: "Fqtl97MEgSMhlpJrz5RMqboq",

});

const crypto = require("crypto");

const Order = require("../models/orderModel");

//it is like make things ready

const processPayment = async (req, res) => {

  try {

    const options = {

      amount: req.body.amount, // amount in the smallest currency unit

      currency: "PKR",

    };

    const order = await instance.orders.create(options);

    res.status(200).json({

      success: true,

      order,

    });

  } catch (error) {

    res.status(500).json({

      success: false,

      message: error,

    });

  }

};

Is se order ki kuch information mil jati hai

//sending key

Is se api key send hoti hai jo front end main use hoti hai

const sendAPiKEY = async (req, res) => {

  res.status(200).json({

    success: true,

    key\_secret: "rzp\_test\_mFRPpL3UmG6jAw",

  });

};

* Ye upper waly function se data liya ja raha

      const config = {

        headers: {

          "Content-Type": "application/json",

        },

      };

      //type 1 data demand fullfilling

      const {

        data: { key\_secret },

      } = await axios.get("/api/v1/razorApiKey");

      //type 2 data demand fullfilling

      const {

        data: { order },

      } = await axios.post("/api/v1/payment/process", amountobj, config);

Ab hum data Option k object main use krn gy or Callback\_url main back end ka address de dein gy

      var options = {

        key: key\_secret, // Enter the Key ID generated from the Dashboard

        amount: order.amount,

        currency: "PKR",

        name: "Adil younas",

        description: "Testing the Razor pay for project on 4/12/2023",

        image:

          "https://images.unsplash.com/photo-1511367461989-f85a21fda167?ixlib=rb-4.0.3&ixid=MnwxMjA3fDB8MHxzZWFyY2h8Mnx8cHJvZmlsZXxlbnwwfHwwfHw%3D&w=1000&q=80",

        order\_id: order.id,

        callback\_url: "http://localhost:5000/api/v1/paymentVerification",

        prefill: {

          name: "Gaurav Kumar",

          email: "gaurav.kumar@example.com",

          contact: "9000090000",

        },

        notes: {

          address: "Razorpay Corporate Office",

        },

        theme: {

          color: "#3399cc",

        },

      };

      const razor = new window.Razorpay(options);

      razor.open();

upper kuch information beji or order ready ab backend ka callback url part ye hai taky hum Authentication b use kr saky

**Note:** upper ham ny jo link past kiya hai us ki waja se req.body k andar Razor function a jaye ga Or window.Razor k through hum is ko access kr len gy Authentication ki thori se information bejny k bad data base main or chezin b save krni hai is liye front end ka url b use krna hai

Upper wala link paymentVerification ka hai

const paymentVerification = async (req, res) => {

  try {

    const { razorpay\_payment\_id, razorpay\_order\_id, razorpay\_signature } =

      req.body;

    const body = razorpay\_order\_id + "|" + razorpay\_payment\_id;

    const expectedSignature = crypto

      .createHmac("sha256", "Fqtl97MEgSMhlpJrz5RMqboq")

      .update(body.toString())

      .digest("hex");

// razorpay\_signature must = expectedSignature

    console.log("sig received ", razorpay\_signature);

    console.log("sig generated ", expectedSignature);

    const Authenticated = razorpay\_signature === expectedSignature;

    if (Authenticated) {

      const order = await Order.create({

        user: req.user.\_id, //done

        razorpay\_order\_id: razorpay\_order\_id,

        razorpay\_payment\_id: razorpay\_payment\_id,

        razorpay\_signature: razorpay\_signature,

  paidAt: Date.now(), //yahan kuch information beji jati hai

      });

      res

        .status(201)

        .redirect(

          `http://localhost:3000/paymentuccess?reference=${razorpay\_payment\_id}`

        );

    } else {

      res.status(400).json({

        success: false,

      });

    }

  } catch (error) {

    res.status(500).json({

      success: false,

      message: error,

    });

  }

};

The above function verify the user and send 3 important keys to data base like ( razorpay\_payment\_id, razorpay\_order\_id, razorpay\_signature).

http://localhost:3000/paymentuccess?reference=${razorpay\_payment\_id}`

Upper wala link front end ka hai ka hai yani nechy dekho link ka code open hai is k through hum baki data backend ko bej dein gy

import React, { useEffect } from "react";

import { useSearchParams } from "react-router-dom";

import "./paymentSuccess.css";

import axios from "axios";

const PaymentSuccess = () => {

  const searchQuery = useSearchParams()[0];

  const referenceNum = searchQuery.get("reference");

  //for cart items

  const {cartItems,Total,shippingTax,subTotal,tax  } = JSON.parse(localStorage.getItem("cartItems"))

  //for shipping information

  const {addressState,cityState,countryState,phoneNOState,pinCodeState,stateState   } = JSON.parse(localStorage.getItem("shippingInfoItems"))

  //data binding

  const dataBinding = {

    orderItems:cartItems,

    referenceNum,

    shippingInfo:{

      address:addressState,

      country:countryState,

      state:stateState,

      city:cityState,

      phone:phoneNOState,

      pinCode:pinCodeState,

    },

    subTotal:subTotal,

    tax:tax,

    shippingTax:shippingTax,

    total:Total,}

  const config = {

    headers: {

      "Content-Type": "application/json",

    },

  };

 async function placeOrder () {

    try {

      await axios.put("/api/v1/placeOrder",dataBinding,  config);

    } catch (error) {

      console.log(error);

    }

  };

useEffect(()=>{

  placeOrder()

  // eslint-disable-next-line react-hooks/exhaustive-deps

},[])

  return (

    <div className="success\_Main\_div">

      <div>Reference Number: {referenceNum}</div>

      <button >Click me</button>

    </div>

  );

};

export default PaymentSuccess;

Here we are receiving the information from the above link

And this is the backend part

//place order

const placeOrder = async (req, res) => {

  try {

    const {orderItems, shippingInfo,subTotal,tax,shippingTax,total,referenceNum } = await req.body

    const order = await Order.findOne( {razorpay\_payment\_id:referenceNum } );

    if (!order) {

      return res.status(400).json({

        success: false,

        message: "Order not found",

      });

    }

    const updataOrder = await Order.findByIdAndUpdate(order.\_id,{ orderItems,shippingInfo,subTotal,tax,shippingTax,total}

    );

    res.status(200).json({

      success: true,

      updataOrder

    });

  } catch (error) {

    res.status(500).json({

      success: false,

      message: error,

    });

  }

};