

## **NODE JS AND EXPRESS JS:**

```
// Import required modules

const express = require('express');
const bodyParser = require('body-parser');
const session = require('express-session');
const stripe = require('stripe')('your_secret_key_here');


// Create an instance of Express

const app = express();


// Configure middleware
app.set('view engine', 'ejs');
app.use(express.static('public'));
app.use(bodyParser.urlencoded({ extended: true }));
app.use(session({
  secret: 'your_secret_key_here',
  resave: false,
  saveUninitialized: false
}));


// Define the data structures
const categories = [
  {
    id: 1,
    name: 'Birthday Gifts',
    gifts: [
      {
        id: 1,
        name: 'Happy Birthday Gift Box',
        description: 'A special gift box to celebrate a birthday',

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    price: 25,  
    image: '/images/birthday-gift-box.jpg'  
  },  
  {  
    id: 2,  
    name: 'Personalized Birthday Cake',  
    description: 'A delicious cake with a personalized message',  
    price: 35,  
    image: '/images/birthday-cake.jpg'  
  }  
]  
,  
{  
  id: 2,  
  name: 'Anniversary Gifts',  
  gifts: [  
    {  
      id: 3,  
      name: 'Heart-Shaped Photo Collage',  
      description: 'A beautiful photo collage in the shape of a heart',  
      price: 40,  
      image: '/images/heart-collage.jpg'  
    },  
    {  
      id: 4,  
      name: 'Personalized Anniversary Frame',  
      description: 'A special frame to celebrate an anniversary',  
      price: 30,  
      image: '/images/anniversary-frame.jpg'  
    }  
  ]  
}
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    }
  ];

  // Define the routes
  app.get('/', (req, res) => {
    res.render('index', { categories });
  });

  app.get('/category/:id', (req, res) => {
    const category = categories.find(c => c.id === Number(req.params.id));
    res.render('category', { category });
  });

  app.get('/gift/:id', (req, res) => {
    const gift = categories.flatMap(c => c.gifts).find(g => g.id === Number(req.params.id));
    res.render('gift', { gift });
  });

  app.post('/checkout', async (req, res) => {
    try {
      const { giftId, quantity, name, email, address, city, state, zip, stripeToken } = req.body;

      // Get the gift and calculate the total price
      const gift = categories.flatMap(c => c.gifts).find(g => g.id === Number(giftId));
      const totalPrice = gift.price * quantity;

      // Create a Stripe charge
      const charge = await stripe.charges.create({
        amount: totalPrice * 100,
        currency: 'usd',
        source: stripeToken,

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description: `${quantity} ${gift.name}`,
metadata: {
  name,
  email,
  address,
  city,
  state,
  zip
}
});

// Render the confirmation page
res.render('confirmation', { gift, quantity, totalPrice });
} catch (err) {
  console.error(err);
  res.redirect('/');
}
});

// Start the server
```