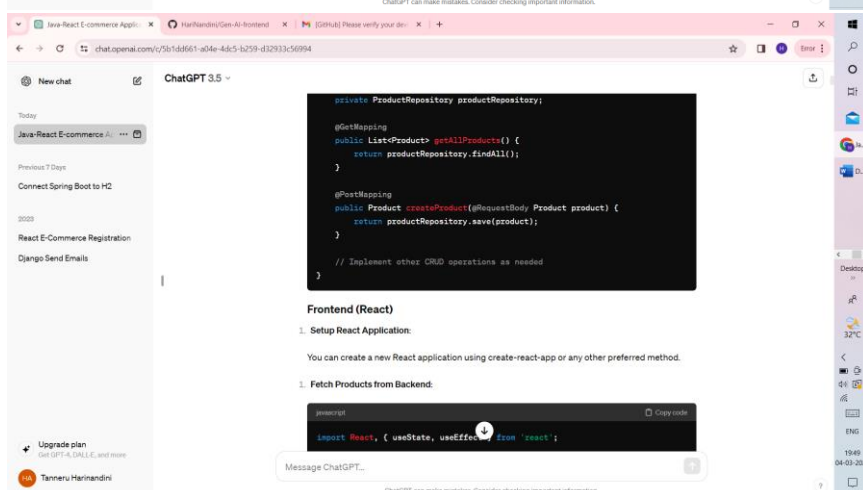
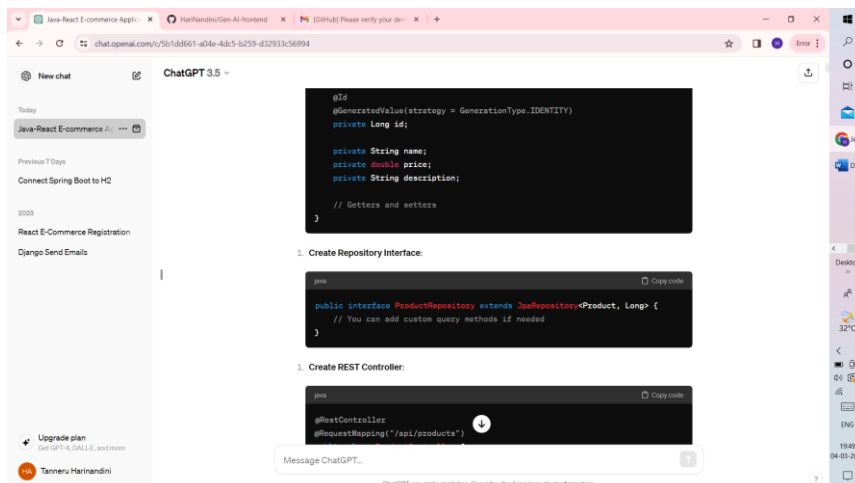
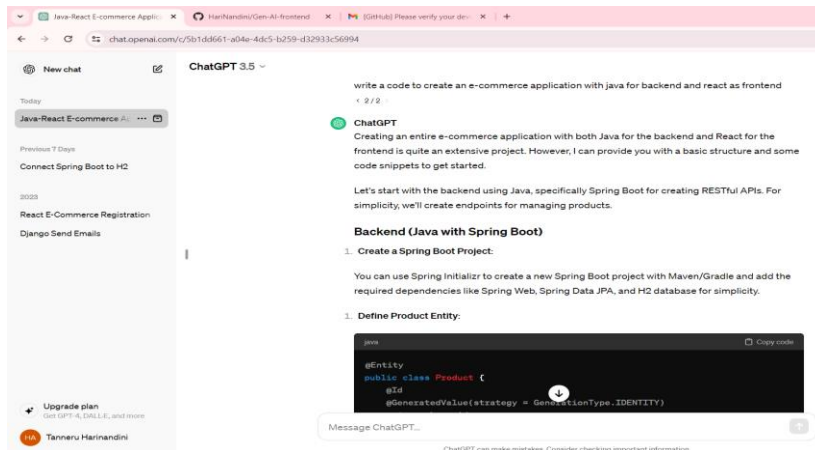


Developing an e-commerce application using GEN AI (CHAT GPT 3.5)

Prompt

write a code to create an e-commerce application with java for backend and react as frontend

Output



New chat

Today

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Upgrade plan

Get GPT-4, DALL-E, and more

Tanneru Harinadini

ChatGPT 3.5

```
    .then(response => response.json())
    .then(data => setProducts(data))
    .catch(error => console.error('Error fetching products:', error));

}, []);

return (
  <div>
    <h1>Products</h1>
    <ul>
      {products.map(product => (
        <li key={product.id}>
          <h2>{product.name}</h2>
          <p>{product.description}</p>
          <p>Price: ${product.price}</p>
        </li>
      ))}
    </ul>
  </div>
);
}

export default App;
```

Ensure you run 'npm install' to install dependencies before running the React application.

Running the Application

Message ChatGPT...

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Ensure you run 'npm install' to install dependencies before running the React application.

Running the Application

1. Start the Spring Boot backend application.
2. Start the React frontend application.

Ensure that your backend is running on a port (e.g., 8080) and your React frontend is configured to proxy requests to that backend URL during development.

This provides a basic structure for an e-commerce application with Java backend and React frontend. From here, you can expand by adding authentication, more CRUD operations, a shopping cart, payment processing, and many other features.

You

write code for registration module for this website

3 / 3

ChatGPT

Sure, I can provide you with a basic example of a registration module for the e-commerce website. We'll add a user registration feature to the backend using Spring Boot and Java.

Backend (Java with Spring Boot)

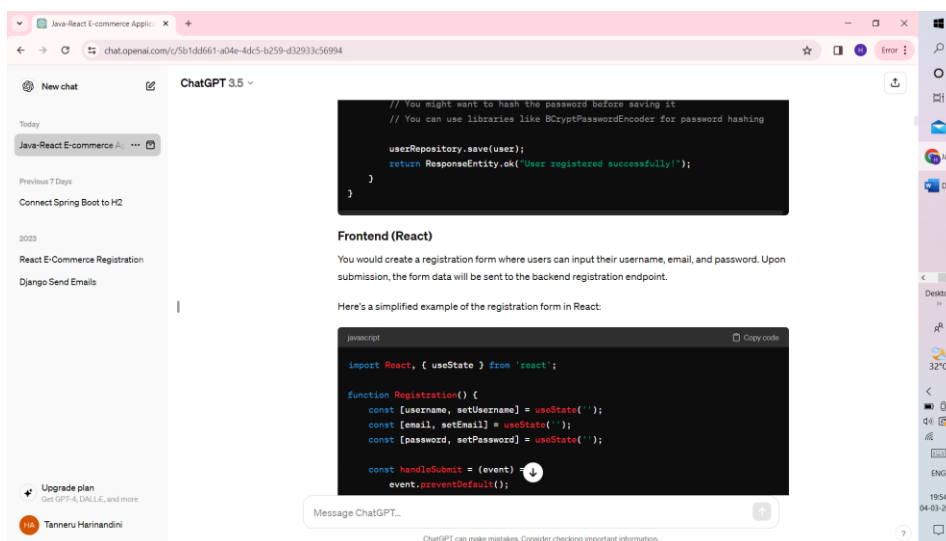
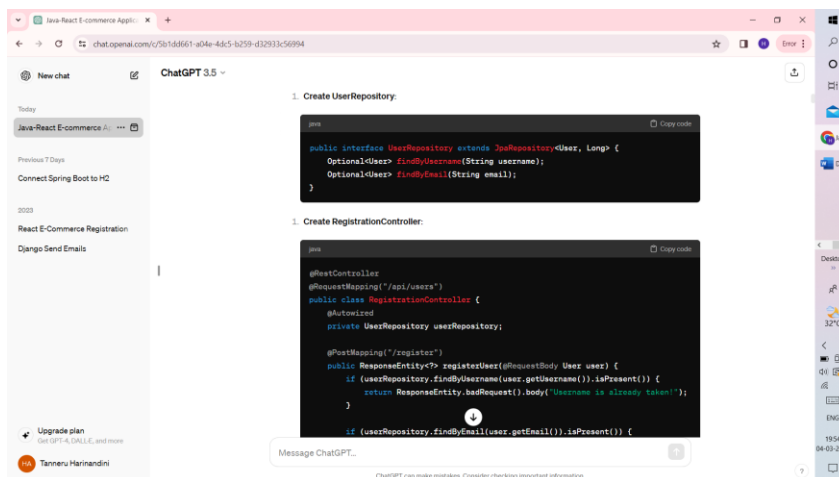
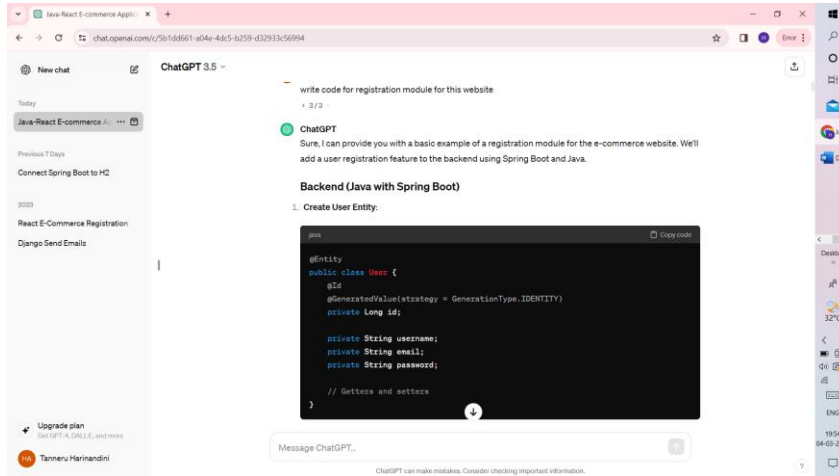
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PROMPT

write code for registration module for this website

OUTPUT



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```
const handleSubmit = (event) => {
  event.preventDefault();

  fetch('/api/users/register', {
    method: 'POST',
    headers: {
      'Content-Type': 'application/json',
    },
    body: JSON.stringify({ username, email, password }),
  })
  .then(response => {
    if (response.ok) {
      // Handle successful registration
      console.log('User registered successfully!');
    } else {
      // Handle registration error
      console.error('Registration failed:', response.statusText);
    }
  })
  .catch(error => console.error('Error during registration:', error));
};

return (
  <div>
    <h2>Register</h2>
    <form onSubmit={handleSubmit}>
```

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ChatGPT 3.5

```
<div>
  <label>Password:</label>
  <input
    type="password"
    value={password}
    onChange={(e) => setPassword(e.target.value)}
    required
  />
</div>
<button type="submit">Register</button>
</form>
</div>
);

export default Registration;
```

This frontend code allows users to enter their registration details and sends them to the backend endpoint for registration.

Remember, this is a very basic example and lacks error handling, validation, and security features like password hashing, token-based authentication, etc. In a production environment, you'd need to implement these for a secure and robust user registration system.

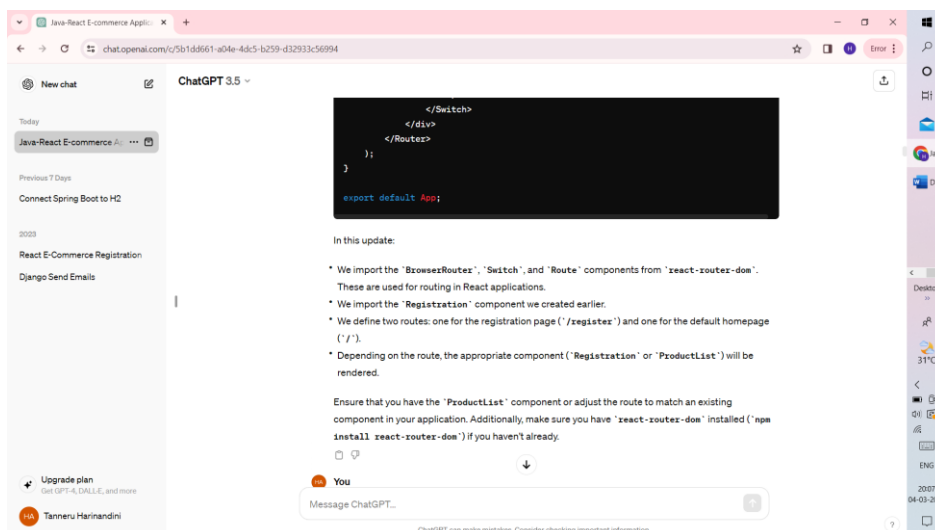
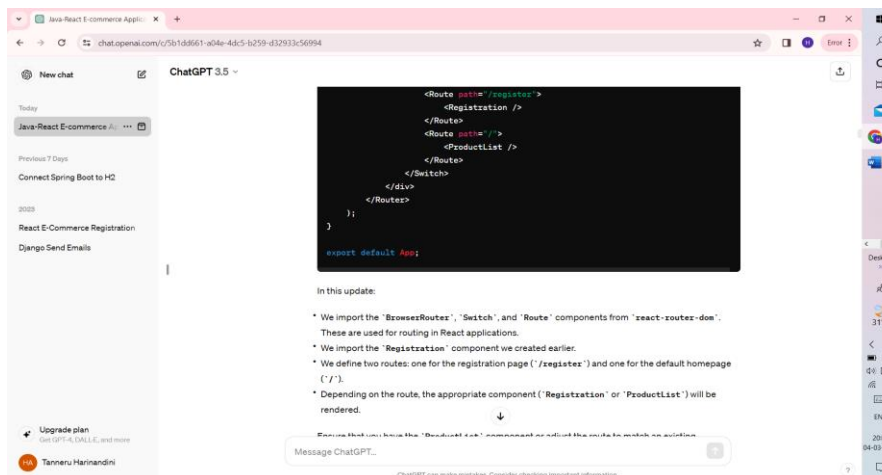
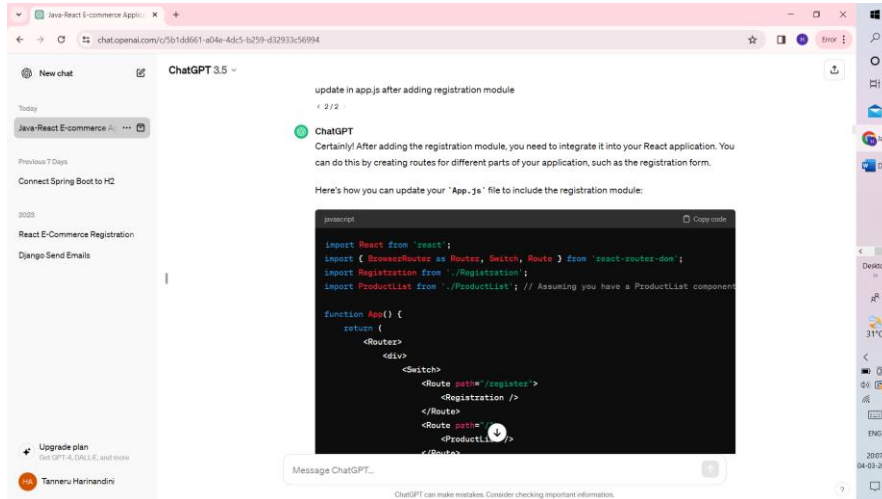
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PROMPT

update in app.js after adding registration module

OUTPUT



PROMPT

write code for login using username and password with authentication using an otp for above website without jwt.

OUTPUT

The image displays three sequential screenshots of a ChatGPT interface, showing the generation of code for a login system with OTP authentication.

First Screenshot: The user prompts ChatGPT to write code for login using username and password with authentication using an OTP for a website without JWT. ChatGPT responds with a confirmation and a basic implementation for the backend and frontend using Spring Boot and React.

Second Screenshot: The user asks for the Backend (Java with Spring Boot) code. ChatGPT provides the code for the OTP Utility and the Login Controller.

Third Screenshot: The user asks for the Frontend (React) code. ChatGPT provides the code for the Login Component.

Backend (Java with Spring Boot)

1. Generate OTP Utility:

```
import java.util.Random;

public class OTPGenerator {

    public static String generateOTP() {
        // Generate a 6-digit OTP
        Random random = new Random();
        int otp = 100000 + random.nextInt(900000);
        return String.valueOf(otp);
    }
}
```

2. LoginController:

```
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RestController;

@RestController
public class LoginController {

    @PostMapping("/login")
    public ResponseEntity<?> login(@RequestBody LoginRequest loginRequest) {
        // Validate username and password (you may fetch from database)
        // For simplicity, we'll assume it's valid if username is not empty
        if (loginRequest.getUsername() != null && loginRequest.getPassword() != null) {
            String otp = OTPGenerator.generateOTP(); // Generate OTP
            // You may send this OTP to the user via email or SMS
            return ResponseEntity.ok("OTP sent to your registered email/mobile.");
        } else {
            return ResponseEntity.badRequest().body("Invalid username or password.");
        }
    }
}
```

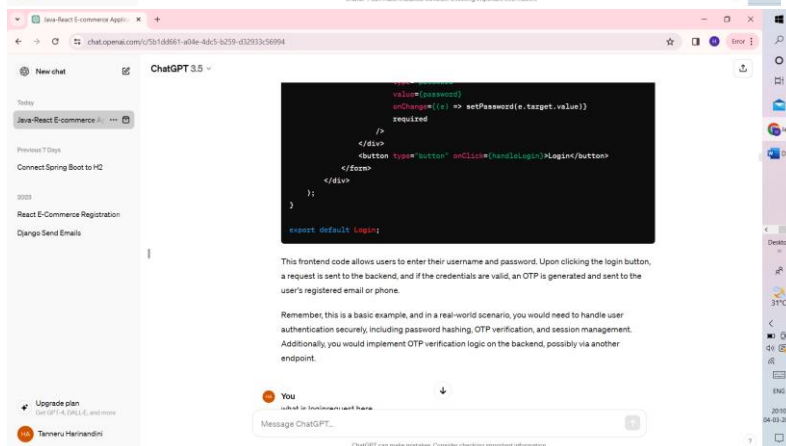
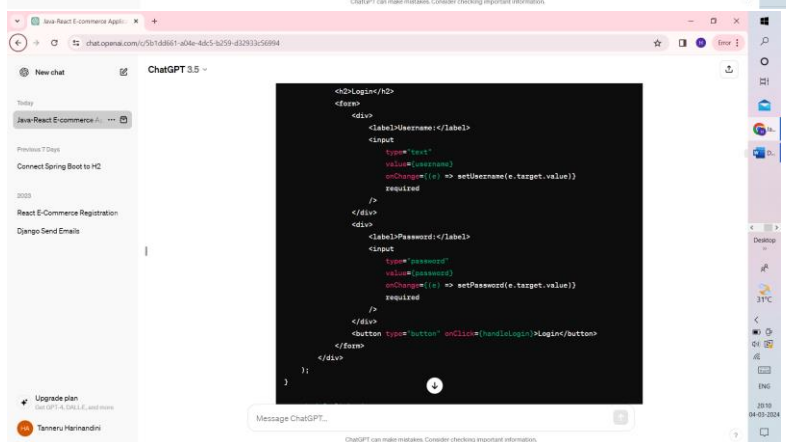
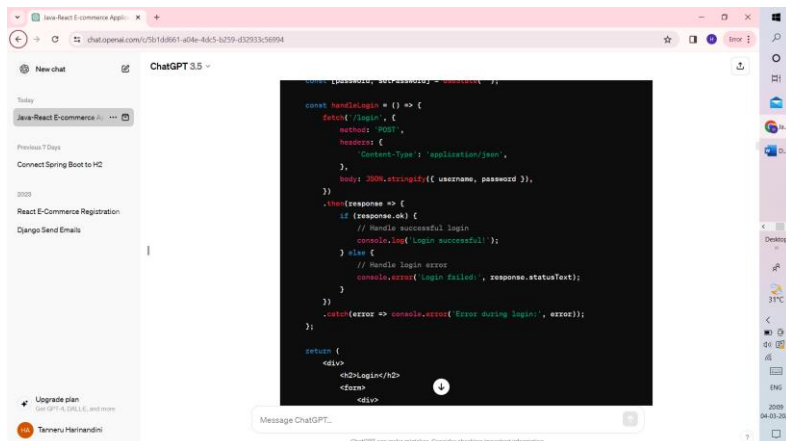
Frontend (React)

1. Login Component:

```
import React, { useState } from 'react';

function Login() {
    const [username, setUsername] = useState('');
    const [password, setPassword] = useState('');

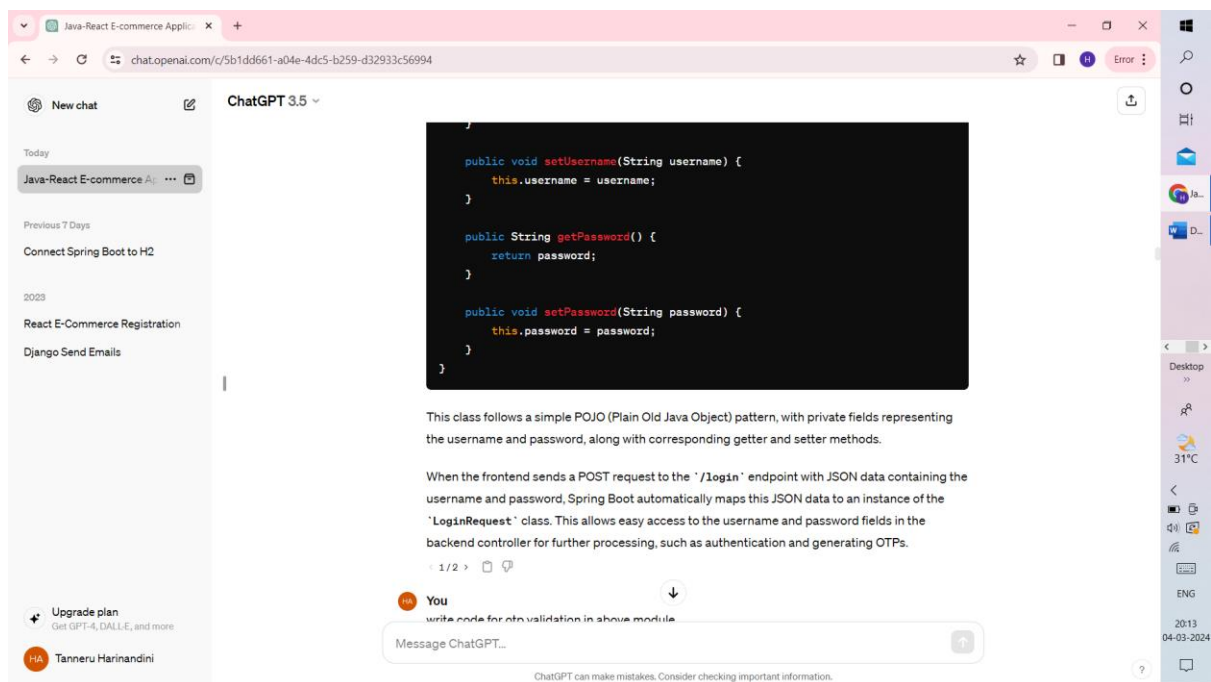
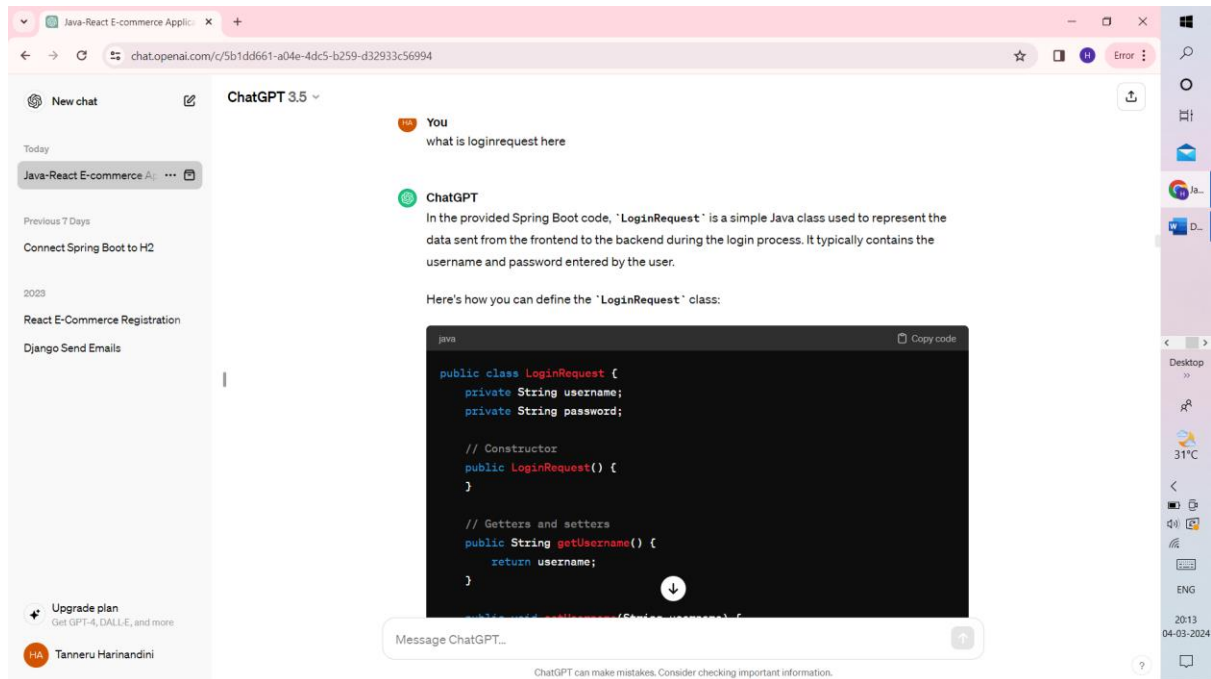
    const handleLogin = () => {
        fetch('/login', {
            method: 'POST',
            headers: {
                'Content-Type': 'application/json',
            },
            body: JSON.stringify({
                username: username,
                password: password,
            }),
        })
        .then((response) => response.json())
        .then((data) => {
            // Handle successful login
            // Handle error
        })
    };
}
```



PROMPT

what is loginrequest here

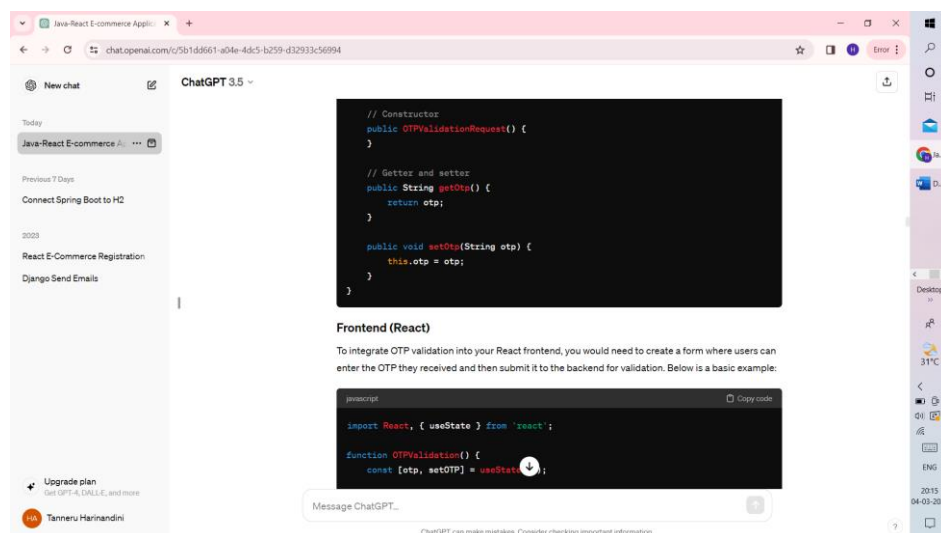
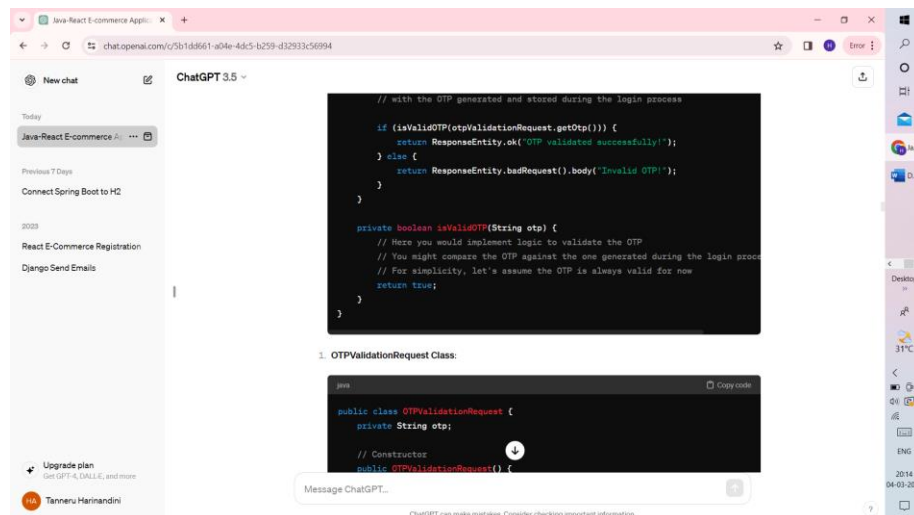
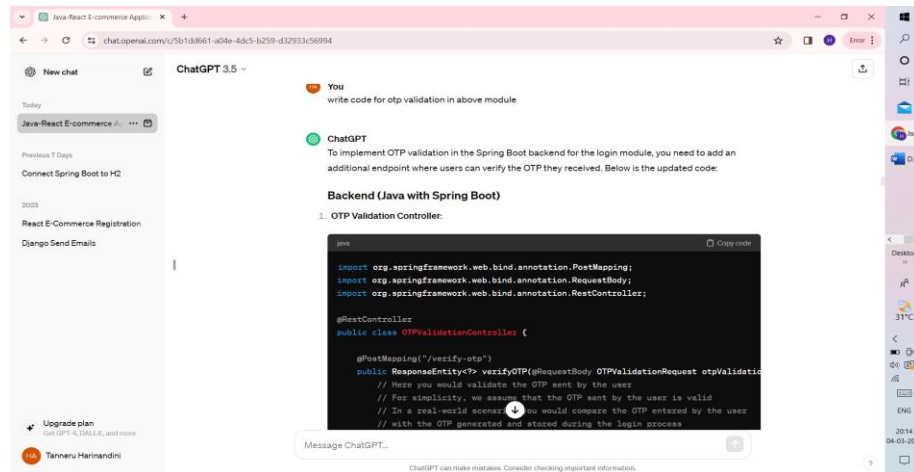
OUTPUT



PROMPT

write code for otp validation in above module

OUTPUT



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ChatGPT 3.5

```
const handleOTPValidation = () => {
  fetch('/verify-otp', {
    method: 'POST',
    headers: {
      'Content-Type': 'application/json',
    },
    body: JSON.stringify({ otp }),
  })
  .then(response => {
    if (response.ok) {
      // Handle successful OTP validation
      console.log('OTP validated successfully!');
    } else {
      // Handle OTP validation error
      console.error('OTP validation failed!', response.statusText);
    }
  })
  .catch(error => console.error('Error during OTP validation:', error));
};

return (
  <div>
    <h2>OTP Validation</h2>
    <form>
      <div>
        <label>Enter OTP</label>
        <input type="text" value={otp} onChange={e => setOTP(e.target.value)} required />
        <button type="button" onClick={handleOTPValidation}>Validate OTP</button>
      </div>
    </form>
  </div>
);

export default OTPValidation;
```

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ChatGPT 3.5

```
<label>Enter OTP:</label>
<input type="text" value={otp} onChange={e => setOTP(e.target.value)} required />
</div>
<button type="button" onClick={handleOTPValidation}>Validate OTP</button>
</div>
);

export default OTPValidation;
```

This frontend code allows users to enter the OTP they received and sends it to the backend for validation. Ensure you handle OTP generation and storage securely in your application.

This example provides a basic structure for implementing OTP validation. In a real-world scenario, you would integrate this with your existing login flow and handle OTP expiration, security, and other aspects.

You

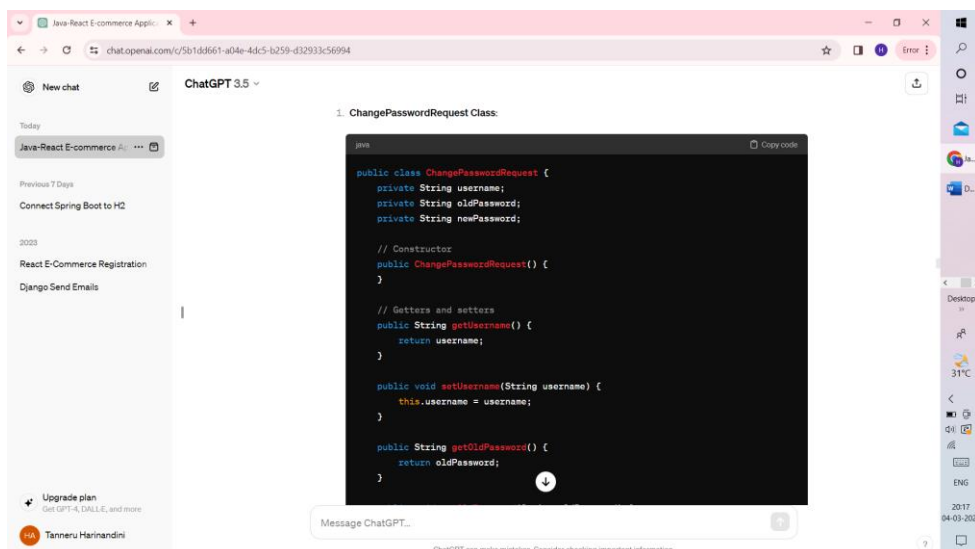
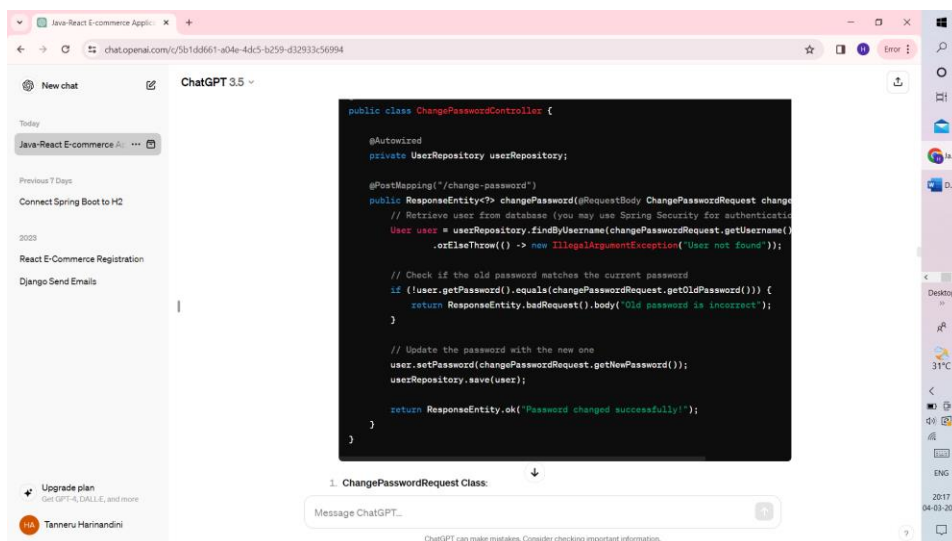
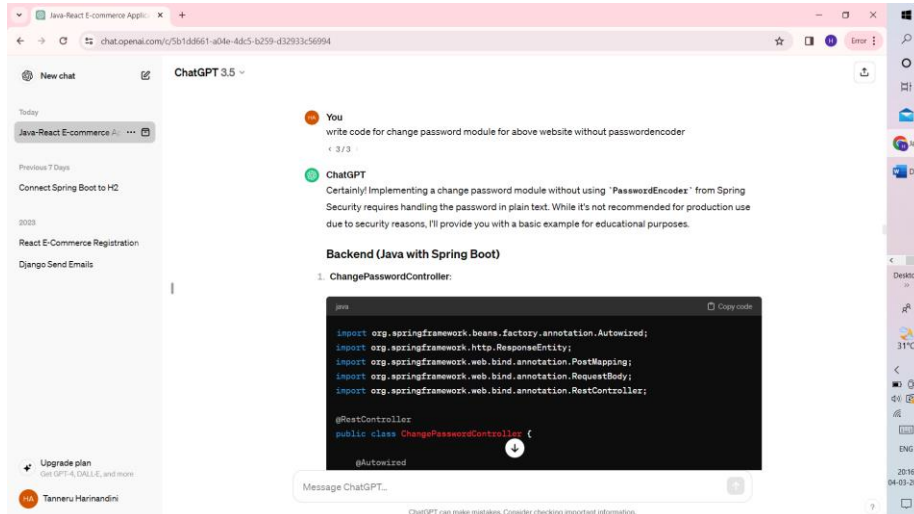
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PROMPT

write code for change password module for above website without passwordencoder

OUTPUT



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Upgrade plan

Get GPT-4, DALL-E, and more

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ChatGPT 3.5

```
public void setOldPassword(String oldPassword) {
    this.oldPassword = oldPassword;
}

public String getNewPassword() {
    return newPassword;
}

public void setNewPassword(String newPassword) {
    this.newPassword = newPassword;
}
}
```

Frontend (React)

Below is a basic example of how you can create a form in React to change the password:

```
import React, { useState } from 'react';

function ChangePassword() {
  const [username, setUsername] = useState('');
  const [oldPassword, setOldPassword] = useState('');
  const [newPassword, setNewPassword] = useState('');
}
```

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Upgrade plan

Get GPT-4, DALL-E, and more

Tanneru Marindani

ChatGPT 3.5

```
const [newPassword, setNewPassword] = useState('');

const handleChangePassword = () => {
  fetch('/change-password', {
    method: 'POST',
    headers: {
      'Content-Type': 'application/json',
    },
    body: JSON.stringify({ username, oldPassword, newPassword }),
  })
  .then(response => {
    if (response.ok) {
      // Handle successful password change
      console.log('Password changed successfully!');
    } else {
      // Handle password change error
      console.error('Password change failed:', response.statusText);
    }
  })
  .catch(error => console.error('Error during password change:', error));
};

return (
  <div>
    <h2>Change Password</h2>
    <form>
```

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ChatGPT 3.5

```
<h2>Change Password</h2>
<form>
  <div>
    <label>Username:</label>
    <input
      type="text"
      value={username}
      onChange={e => setUsername(e.target.value)}
      required
    />
  </div>
  <div>
    <label>Old Password:</label>
    <input
      type="password"
      value={oldPassword}
      onChange={e => setOldPassword(e.target.value)}
      required
    />
  </div>
  <div>
    <label>New Password:</label>
    <input
      type="password"
      value={newPassword}
      onChange={e => setNewPassword(e.target.value)}
    />
  </div>
</form>
```

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Java-React E-commerce Appli...

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ChatGPT 3.5

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Upgrade plan

Get GPT-4, DALL-E, and more

Tanneru Harinandini

```
<label>New Password:</label>
<input
  type="password"
  value={newPassword}
  onChange={(e) => setNewPassword(e.target.value)}
  required
/>
</div>
<form>
  <button type="button" onClick={handleChangePassword}>Change Password</button>
</form>
</div>
);
}
export default ChangePassword;
```

This frontend code allows users to enter their username, old password, and new password. Upon clicking the change password button, a request is sent to the backend to change the password.

Keep in mind that storing passwords in plain text is highly insecure. In a real-world scenario, you should always use password hashing with a secure hashing algorithm like bcrypt, along with salting and peppering for additional security. Additionally, consider using HTTPS to encrypt data transmission between the frontend and backend.

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Desktop

31°C

ENG

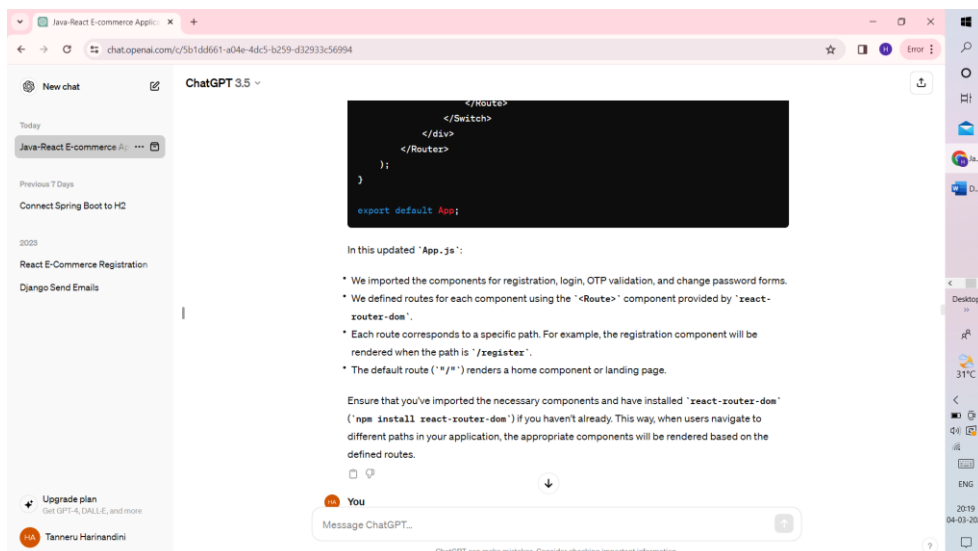
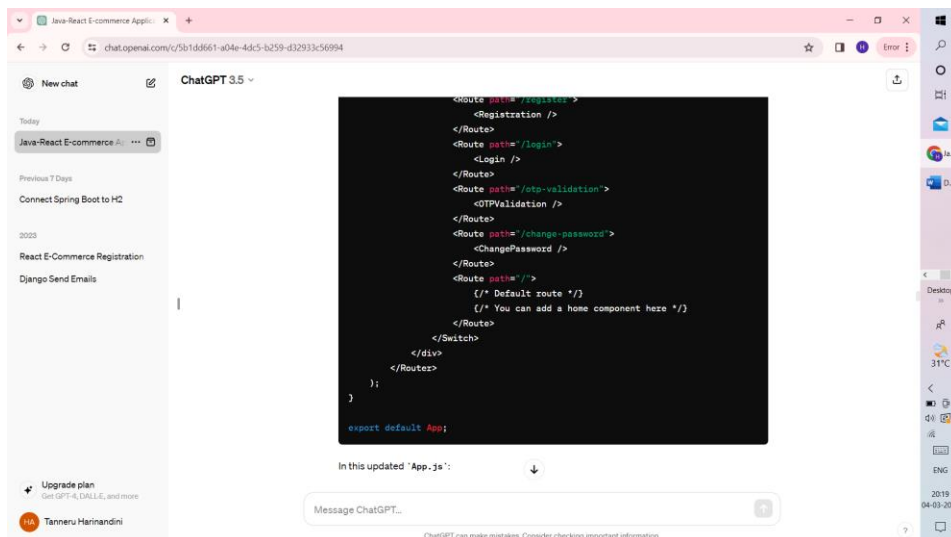
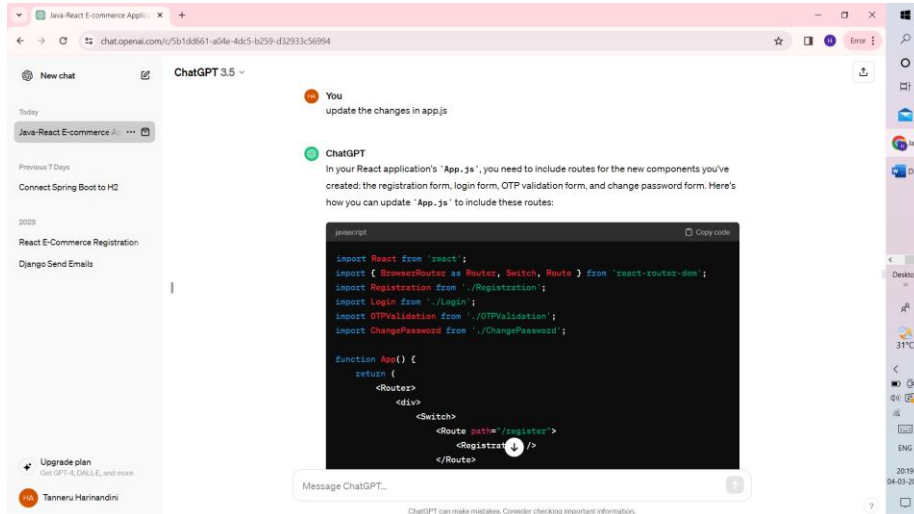
2018

04-03-2024

PROMPT

update the changes in app.js

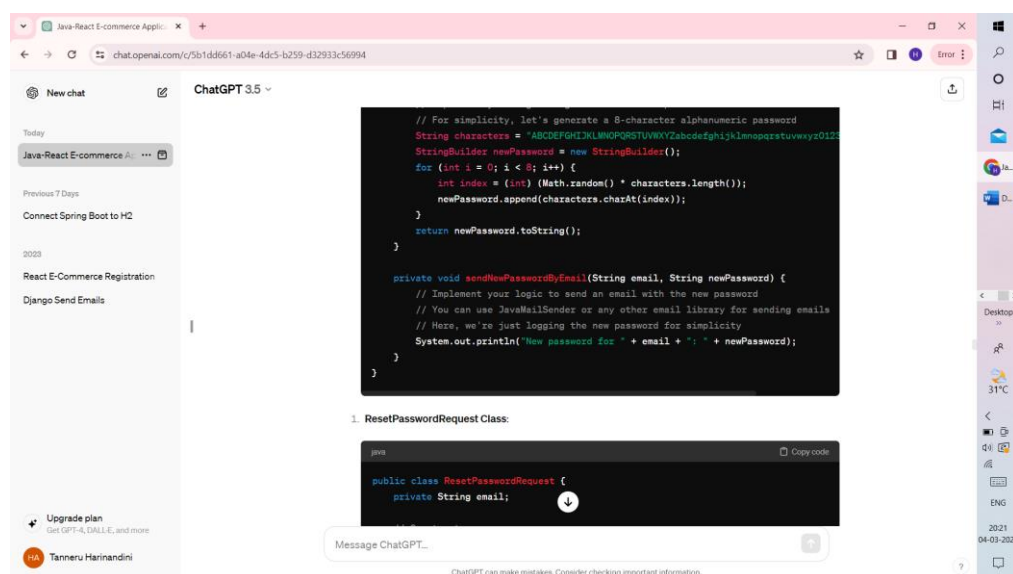
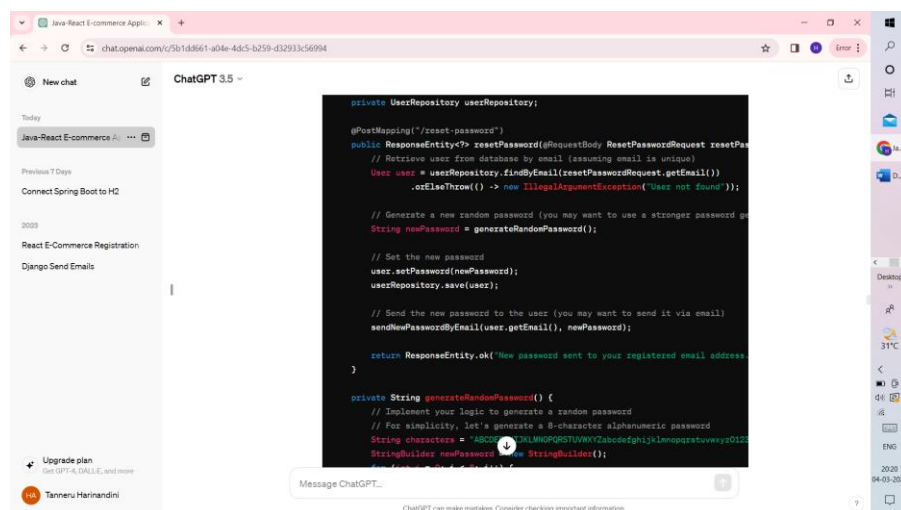
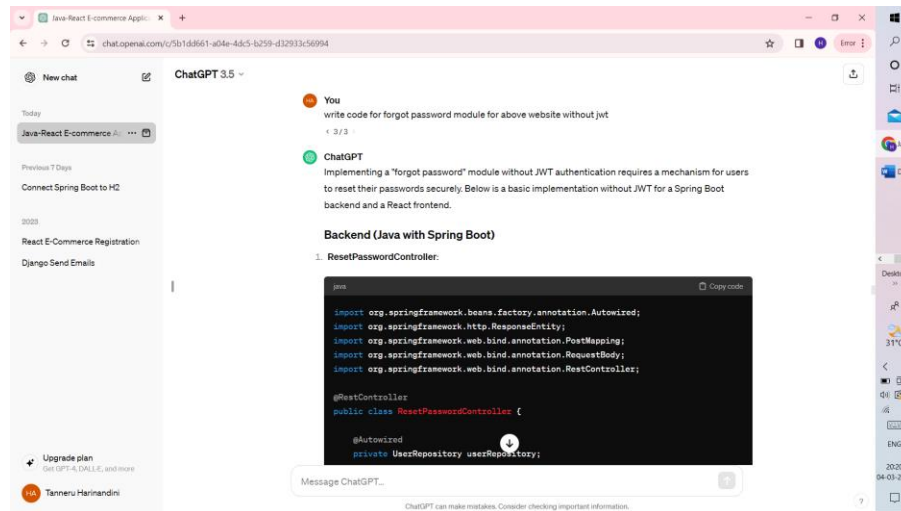
OUTPUT



PROMPT

write code for forgot password module for above website without jwt

OUTPUT



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Previous 7 Days

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Upgrade plan

Get GPT-4, DALL-E, and more

Tanneru Harinandini

ChatGPT 3.5

```
public class ResetPasswordRequest {
    private String email;

    // Constructor
    public ResetPasswordRequest() {
    }

    // Getter and setter
    public String getEmail() {
        return email;
    }

    public void setEmail(String email) {
        this.email = email;
    }
}
```

Frontend (React)

Below is a basic example of how you can create a form in React for users to request a password reset:

```
import React, { useState } from 'react';

function ForgotPassword() {
  // ...
}
```

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Upgrade plan

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ChatGPT 3.5

```
const handleResetPassword = () => {
  fetch('/reset-password', {
    method: 'POST',
    headers: {
      'Content-Type': 'application/json',
    },
    body: JSON.stringify({ email }),
  })
  .then(response => {
    if (response.ok) {
      // Handle successful password reset request
      console.log('New password sent to your email address.');
```

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ChatGPT 3.5

```
<label>Enter your email:</label>
<input
  type="email"
  value={email}
  onChange={(e) => setEmail(e.target.value)}
  required
/>
</div>
<button type="button" onClick={handleResetPassword}>Reset Password</button>
</form>
</div>
);

export default ForgotPassword;
```

This frontend code allows users to enter their email address and sends a request to the backend to reset their password. Ensure you handle the new password generation and email sending securely in your application.

Remember, while this approach provides a basic implementation for resetting passwords, it's important to implement security measures such as rate limiting, captcha verification, and verification of the email ownership to prevent abuse and ensure user security.

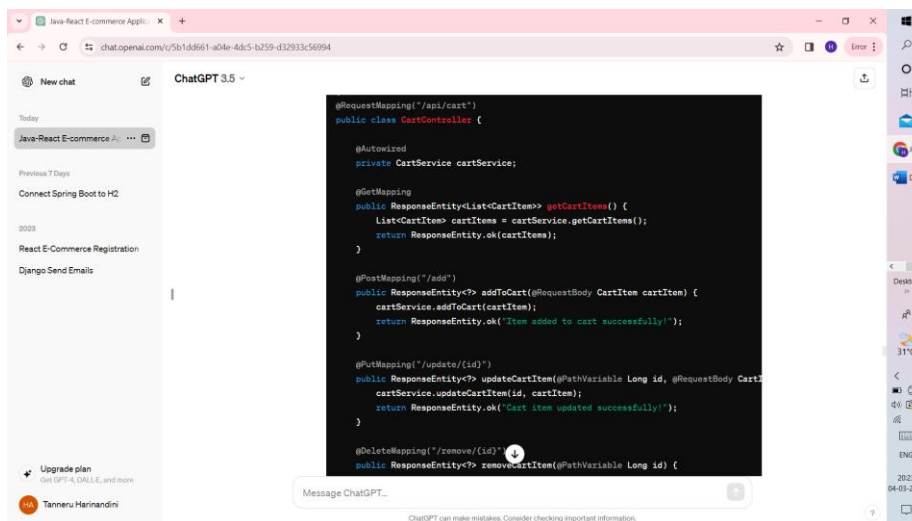
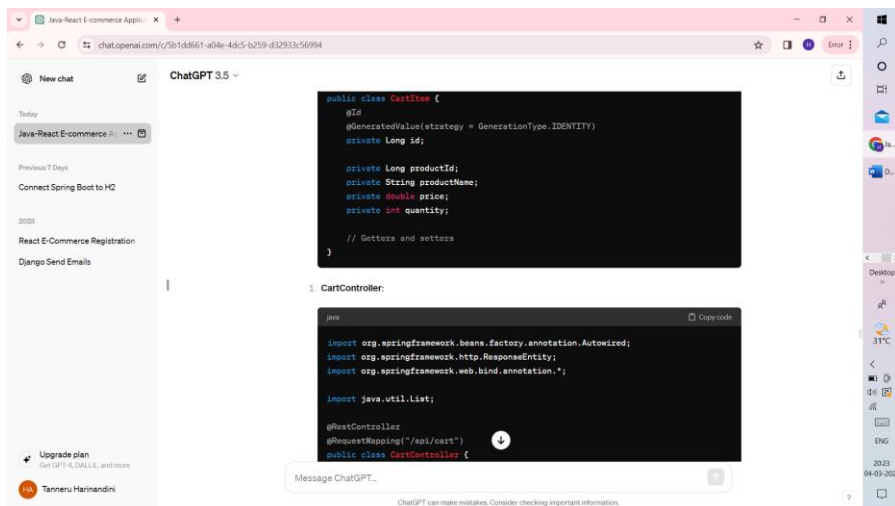
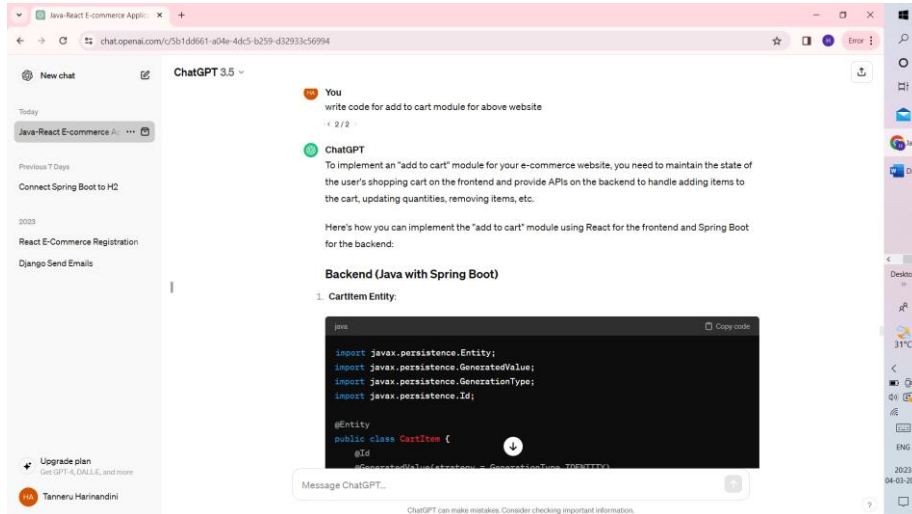
Message ChatGPT...

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PROMPT

write code for add to cart module for above website

OUTPUT



Java-React E-commerce Applic... x

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```
@RequestMapping("/remove/{id}")
public ResponseEntity<?> removeCartItem(@PathVariable Long id) {
    cartService.removeCartItem(id);
    return ResponseEntity.ok("Cart item removed successfully!");
}
```

1. CartService:

```
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import java.util.List;

@Service
public class CartService {

    @Autowired
    private CartRepository cartRepository;

    public List<CartItem> getCartItems() {
        return cartRepository.findAll();
    }
}
```

Message ChatGPT...

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Upgrade plan
Get GPT-4, DALL-E, and more

Tanneru Harinandini

```
public List<CartItem> getCartItems() {
    return cartRepository.findAll();
}

public void addToCart(CartItem cartItem) {
    cartRepository.save(cartItem);
}

public void updateCartItem(Long id, CartItem cartItem) {
    cartItem.setId(id);
    cartRepository.save(cartItem);
}

public void removeCartItem(Long id) {
    cartRepository.deleteById(id);
}
```

Frontend (React)

1. Cart Component:

```
import React, { useState, useEffect } from 'react';
```

Message ChatGPT...

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```
function Cart() {
    const [cartItems, setCartItems] = useState([]);

    useEffect(() => {
        fetch('/api/cart')
            .then(response => response.json())
            .then(data => setCartItems(data))
            .catch(error => console.error('Error fetching cart items:', error));
    }, []);

    return (
        <div>
            <h2>Shopping Cart</h2>
            <ul>
                {cartItems.map(item => (
                    <li key={item.id}>
                        <div>{item.productName}</div>
                        <div>Price: ${item.price}</div>
                        <div>Quantity: {item.quantity}</div>
                        <button onClick={() => handleRemoveItem(item.id)}>Remove</button>
                    </li>
                ))}
            </ul>
        </div>
    );
}
```

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```
});

function handleRemoveItem(id) {
  fetch(`/api/cart/remove/${id}`, {
    method: 'DELETE'
  })
  .then(response => {
    if (response.ok) {
      // Remove the item from the local state
      setCartItems(cartItems.filter(item => item.id !== id));
    } else {
      console.error('Failed to remove item from cart:', response.statusText);
    }
  })
  .catch(error => console.error('Error removing item from cart:', error));
}

export default Cart;
```

1. Product Component (for adding items to the cart):

```
import React from 'react';
```

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```
function Product({ id, name, price }) {
  const handleAddToCart = () => {
    const cartItem = {
      productId: id,
      productName: name,
      price: price,
      quantity: 1
    };

    fetch(`/api/cart/add`, {
      method: 'POST',
      headers: {
        'Content-Type': 'application/json',
      },
      body: JSON.stringify(cartItem),
    })
    .then(response => {
      if (response.ok) {
        console.log('Item added to cart successfully!');
      } else {
        console.error('Failed to add item to cart:', response.statusText);
      }
    })
    .catch(error => console.error('Error adding item to cart:', error));
  };
}
```

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```
});
.catch(error => console.error('Error adding item to cart:', error));
});

return (
  <div>
    <h3>{name}</h3>
    <p>Price: ${price}</p>
    <button onClick={handleAddToCart}>Add to Cart</button>
  </div>
);
export default Product;
```

In this setup, the 'Cart' component fetches the cart items from the backend and renders them. The 'Product' component allows users to add items to the cart by making a POST request to the '/api/cart/add' endpoint.

Ensure that you have the necessary routes set up in your React application to render the 'Cart' and 'Product' components appropriately. Also, remember to handle quantity updates and other features you might need for your e-commerce cart.

You

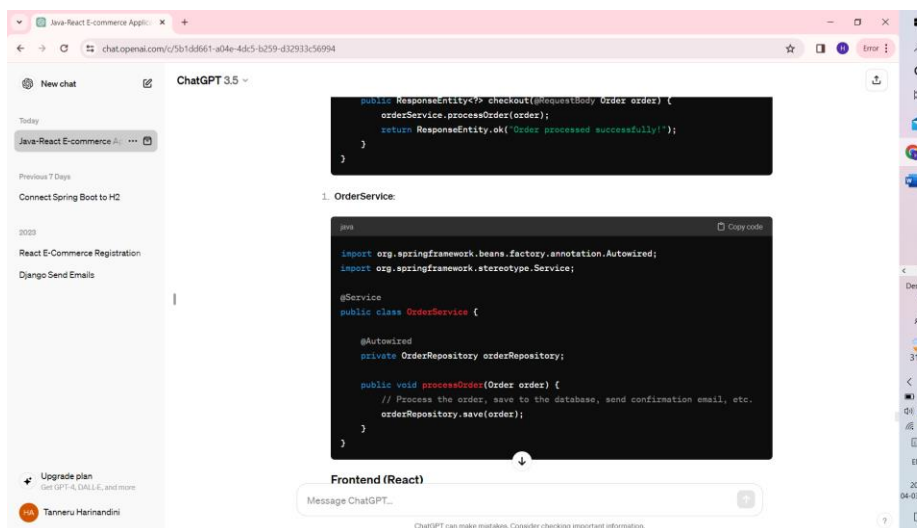
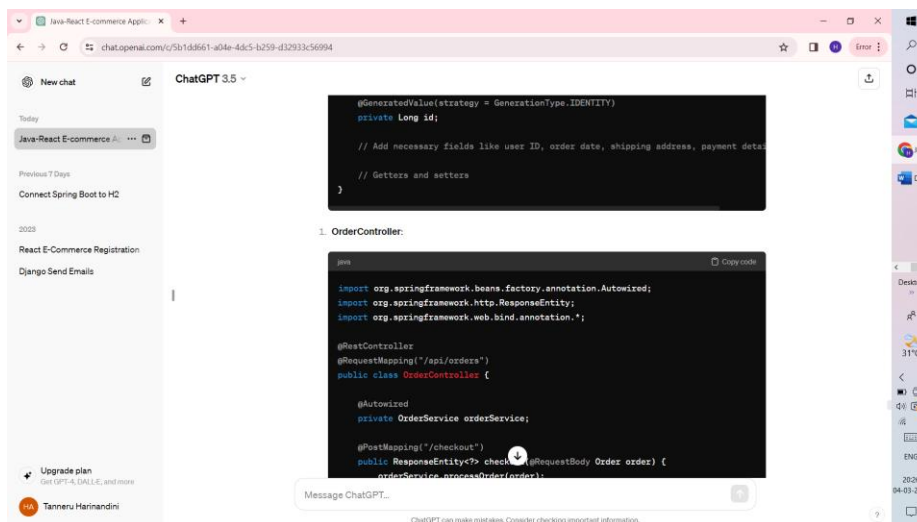
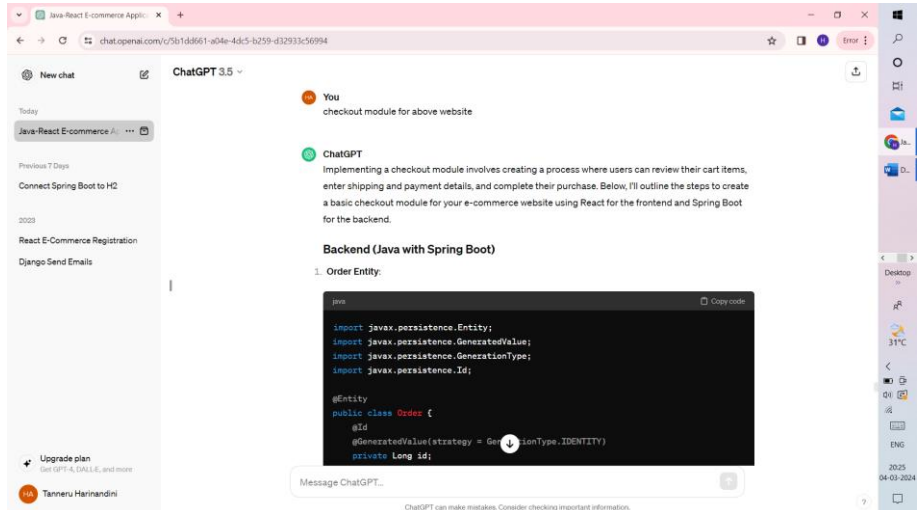
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PROMPT

checkout module for above website

OUTPUT



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Frontend (React)
1. Checkout Component:

```
import React, { useState } from 'react';

function Checkout({ cartItems }) {
  const [shippingAddress, setShippingAddress] = useState('');
  const [paymentDetails, setPaymentDetails] = useState('');

  const handleCheckout = () => {
    const order = {
      // Construct the order object with shipping address, payment details, and
      shippingAddress,
      paymentDetails,
      cartItems
    };

    fetch('/api/orders/checkout', {
      method: 'POST',
      headers: {
        'Content-Type': 'application/json',
      },
      body: JSON.stringify({
        // 
      })
    })
  }
}
```

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```
.then(response => {
  if (response.ok) {
    console.log('Order processed successfully!');
    // Clear the cart after successful checkout
    // You can add your logic here
  } else {
    console.error('Failed to process order!', response.statusText);
  }
})
).catch(error => console.error('Error processing order!', error));
};

return (
  <div>
    <h2>Checkout</h2>
    <div>
      <label>Shipping Address:</label>
      <input
        type="text"
        value={shippingAddress}
        onChange={e => setShippingAddress(e.target.value)}
        required
      />
    </div>
    <div>
      <label>Payment Details:</label>
      <input
```

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```
<label>Payment Details:</label>
<input
  type="text"
  value={paymentDetails}
  onChange={e => setPaymentDetails(e.target.value)}
  required
/>
</div>
<button onClick={handleCheckout}>Place Order</button>
</div>
);
}

export default Checkout;
```

In the frontend, the 'Checkout' component allows users to enter their shipping address and payment details and place their order. The component constructs an order object and sends it to the backend to process.

Ensure you have a way to pass the cart items to the 'Checkout' component from the parent component where the cart is managed. This way, users can review their cart items during the checkout process.

You can also enhance the checkout process by adding validation, order summary, and error handling as per your requirements. Additionally, consider implementing security measures for handling payment

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PROMPT

Payment module for above website without paymentintent

OUTPUT

The image displays three sequential screenshots of a ChatGPT 3.5 interface, showing a conversation about building a payment module for a Java-Spring-React application without using Stripe or PaymentIntent.

First Screenshot:

- User Prompt:** "Payment module for above website without paymentintent"
- ChatGPT Response:** "Implementing a payment module without using PaymentIntent from Stripe or similar payment processing libraries involves creating a basic form where users can enter their payment information and then securely handling that information on the backend. For simplicity, we'll consider a basic credit card payment flow without handling complex scenarios like handling different payment methods or integrating with a third-party payment gateway."
- Section Header:** "Backend (Java with Spring Boot)"
- Task:** "1. PaymentController:"
- Code Snippet:** A Java code snippet for a `PaymentController` class, showing imports for `Springframework` and the `@RestController` annotation.

Second Screenshot:

- Code Snippet:** Continuation of the `PaymentController` class, showing the `processPayment` method with a `@PostMapping` annotation and a comment indicating the payment is successful.
- Task:** "1. PaymentRequest Class:"
- Code Snippet:** A Java code snippet for a `PaymentRequest` class, showing private fields for `cardNumber`, `expirationDate`, `cvv`, and `amount`, along with getters and setters.
- Section Header:** "Frontend (React)"

Third Screenshot:

- Section Header:** "Frontend (React)"
- Task:** "1. Payment Component:"
- Code Snippet:** A JavaScript code snippet for a `Payment` component, showing imports for `React` and `useState`, and a `handlePayment` function that calls `fetch` to send a POST request to the `/api/payment/process` endpoint.

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```
headers: {
  'Content-Type': 'application/json',
},
body: JSON.stringify(paymentData),
},
.then(response => {
  if (response.ok) {
    console.log('Payment processed successfully!');
    // You can handle success scenario here
  } else {
    console.error('Payment processing failed!', response.statusText);
    // You can handle failure scenario here
  }
})
).catch(error => console.error('Error processing payment:', error));
);

return (
<div>
  <h2>Payment</h2>
  <div>
    <label>Card Number:</label>
    <input
      type="text"
      value={cardNumber}
      onChange={(e) => setCardNumber(e.target.value)}
      required
    />

```

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```
      value={cardNumber}
      onChange={(e) => setCardNumber(e.target.value)}
      required
    />
  </div>
  <div>
    <label>Expiration Date:</label>
    <input
      type="text"
      value={expirationDate}
      onChange={(e) => setExpirationDate(e.target.value)}
      required
    />
  </div>
  <div>
    <label>CVV:</label>
    <input
      type="text"
      value={cvv}
      onChange={(e) => setCVV(e.target.value)}
      required
    />
  </div>
  <div>
    <label>Amount:</label>
    <input
      type="number"

```

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```
    <input
      type="number"
      value={amount}
      onChange={(e) => setAmount(e.target.value)}
      required
    />
  </div>
  <button onClick={handlePayment}>Process Payment</button>
</div>
);

export default Payment;
```

This frontend code allows users to enter their payment information and the payment amount. Upon clicking the "Process Payment" button, a request is sent to the backend to process the payment.

It's important to note that this example does not cover all security aspects of handling payment information. In a real-world scenario, you should implement security measures such as encryption for transmitting sensitive data, validation on the backend, and compliance with relevant regulations like PCI DSS. Additionally, consider using established payment processing services like Stripe for secure and reliable payment processing.

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