# **Integration testing(Software Engineering)**

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Theme: Create new cultural destination to celebrate the heritage of India and provide a platform for emerging Talents using Digital Technology solutions

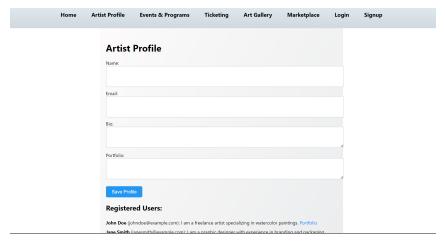
I have used react for the front end and used mock data and then did integration testing using library react-testing-library and enzyme

Website: https://kalatantra.netlify.app/

# Home or welcome page

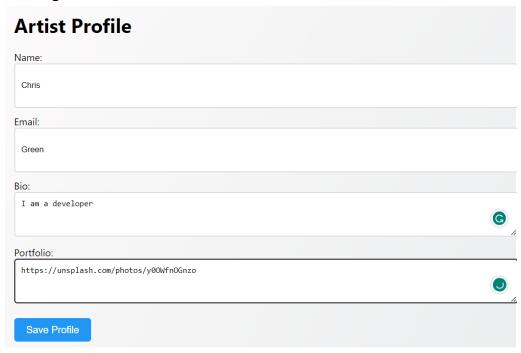
Welcome to our Cultural Destination!  Our multi-disciplinary space for the Arts is the first-of-its-kind in the city, and we're excited to bring together communities through a dynamic programming of epic theatricals, regional theatre, music, dance, spoken word, and more.  We showcase the vibrance of India's heritage and provide a platform for emerging talent. O Digital Technology solutions ensure that we can reach audiences from India and around the	Our multi-disciplinary space for the Arts is the first-of-its-kind in the city, and we're excited to bring together communities through a dynamic programming of epic theatricals, regional theatre, music, dance, spoken word, and more.  We showcase the vibrance of India's heritage and provide a platform for emerging talent. Our	Hor	me	Artist Profile	Events & Programs	Ticketing	Art Gallery	Marketplace	Login	Signup
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world, and we're always expanding our offerings to include new forms of art and expression		_		5,						

## **Artist Profile:**



This section will allow user to add their profile inorder to publish their art work.

## Adding User



#### New user added to list:

## **Registered Users:**

John Doe (johndoe@example.com): I am a freelance artist specializing in watercolor paintings. Portfolio

**Jane Smith** (janesmith@example.com): I am a graphic designer with experience in branding and packaging design. Portfolio

Chris (Green@gmail.com): I am a developer Portfolio

# **Integration Testing:**

```
import React from 'react';
import { shallow } from 'enzyme';
import ArtistProfile from '../ArtistProfile';

describe('ArtistProfile', () => {
  it('renders the component', () => {
    const wrapper = shallow(<ArtistProfile />);
```

```
expect(wrapper.exists()).toBe(true);
  });
 it('adds a new user to the list of registered users when the form is
submitted', () => {
   const wrapper = shallow(<ArtistProfile />);
   const nameInput = wrapper.find('input[type="text"]');
   nameInput.simulate('change', { target: { value: 'Sarah Johnson' } });
   const emailInput = wrapper.find('input[type="email"]');
   emailInput.simulate('change', { target: { value: 'sarah@example.com' }
});
   const bioInput = wrapper.find('textarea').at(0);
   bioInput.simulate('change', { target: { value: 'I am a freelance
photographer specializing in portrait photography.' } });
   const portfolioInput = wrapper.find('textarea').at(1);
   portfolioInput.simulate('change', { target: { value:
'https://sarah-johnson-portfolio.com' } });
   const form = wrapper.find('form');
   form.simulate('submit', { preventDefault() {} });
   const registeredUsers = wrapper.find('li');
   expect(registeredUsers.length).toBe(3); // there were two users
   const newUser = registeredUsers.at(2);
   expect(newUser.text()).toContain('Sarah Johnson');
   expect(newUser.text()).toContain('sarah@example.com');
   expect(newUser.text()).toContain('I am a freelance photographer
specializing in portrait photography.');
expect(newUser.find('a').props().href).toBe('https://sarah-johnson-portfol
io.com');
 });
```

### Output:

```
it('adds a new user to the list of registered users when the form is submitted', () => {
    const wrapper = shallow(<ArtistProfile />);

    const nameInput = wrapper.find('input[type="text"]');
    nameInput.simulate('change', { target: { value: 'Sarah Johnson' } });

at validateAdapter (node modules/enzyme/src/validateAdapter.js:5:11)
    at getAdapter (node modules/enzyme/src/getAdapter.js:10:3)
    at makeShallowOptions (node modules/enzyme/src/ShallowWrapper.js:345:19)
    at new ShallowWrapper (node modules/enzyme/src/ShallowWrapper.js:393:21)
    at shallow (node modules/enzyme/src/shallow.js:10:10)
    at Object.<anonymous> (src/testing/ArtistProfile.test.js:13:28)
    at TestScheduler.scheduleTests (node modules/@jest/core/build/TestScheduler.js:333:13)
    at runJest (node modules/@jest/core/build/runJest.js:404:19)

Test Suites: 1 failed, 1 total
Tests: 2 failed, 2 total
Snapshots: 0 total
Time: 7.737 s
Ran all test suites matching /ArtistProfile.test.js/i.

Active Filters: filename /ArtistProfile.test.js/
```

## **Event and Program Section**

Home	Artist Profile	Events & Programs	Ticketing	Art Gallery	Marketplace	Login	Signup
		Events & Prog	rams Maı	nagement			
		Title:					
		Description:					
		Date: dd-mm-yyyy 🗂					
			Add Event				
		Registered Events					
		Event 1					
		Description of event 1 Date: 2023-04-01					

#### This also has a limit on the number of events

localhost:3000 says

You have reached the limit of events to be added



## Testing code:

```
import React from 'react';
import { render, screen, fireEvent } from '@testing-library/react';
import EventsManagement from '../EventsManagement.js';
describe('EventsManagement', () => {
   render(<EventsManagement />);
   fireEvent.change(screen.getByLabelText('Title:'), { target: { value:
'New Event' }});
   fireEvent.change(screen.getByLabelText('Description:'), { target: {
value: 'Description of new event' }});
    fireEvent.change(screen.getByLabelText('Date:'), { target: { value:
    fireEvent.click(screen.getByText('Add Event'));
   expect(screen.getByText('Description of new
event')).toBeInTheDocument();
   expect(screen.getByText('Date: 2023-04-22')).toBeInTheDocument();
 });
 it('should show an alert when the maximum number of events is reached',
   render(<EventsManagement />);
   fireEvent.change(screen.getByLabelText('Title:'), { target: { value:
'Event 1' }});
   fireEvent.change(screen.getByLabelText('Description:'), { target: {
value: 'Description of event 1' }});
    fireEvent.change(screen.getByLabelText('Date:'), { target: { value:
'2023-04-01' }});
   fireEvent.click(screen.getByText('Add Event'));
   fireEvent.change(screen.getByLabelText('Title:'), { target: { value:
Event 2' }});
```

```
fireEvent.change(screen.getByLabelText('Description:'), { target: {
value: 'Description of event 2' }});
    fireEvent.change(screen.getByLabelText('Date:'), { target: { value:
'2023-04-08' }});
    fireEvent.click(screen.getByText('Add Event'));
    fireEvent.change(screen.getByLabelText('Title:'), { target: { value:
'Event 3' }});
    fireEvent.change(screen.getByLabelText('Description:'), { target: {
value: 'Description of event 3' }});
    fireEvent.change(screen.getByLabelText('Date:'), { target: { value:
'2023-04-15' }});
    fireEvent.click(screen.getByText('Add Event'));
    fireEvent.change(screen.getByLabelText('Title:'), { target: { value:
'Event 4' }});
    fireEvent.change(screen.getByLabelText('Description:'), { target: {
value: 'Description of event 4' }});
    fireEvent.change(screen.getByLabelText('Date:'), { target: { value:
'2023-04-22' }});
    fireEvent.click(screen.getByText('Add Event'));
    fireEvent.change(screen.getByLabelText('Title:'), { target: { value:
'Event 5' }});
    fireEvent.change(screen.getByLabelText('Description:'), { target: {
value: 'Description of event 5' }});
    fireEvent.change(screen.getByLabelText('Date:'), { target: { value:
'2023-04-29' }});
    fireEvent.click(screen.getByText('Add Event'));
   expect(screen.qetByText('You have reached the limit of events to be
added')).toBeInTheDocument();
 });
});
```

#### Result:

```
runs src/testing/EventsManagement.test.js

Test Suites: 0 of 1 total
Tests: 0 total
Snapshots: 0 total
Time: 2 s, estimated 3 s
```

```
Test Suites: 6 failed, 6 total
Tests: 16 failed, 2 passed, 18 total
Snapshots: 0 total
Time: 10.218 s
Ran all test suites.
```

# **Ticketing System**

# **Ticketing System**

Event Name: Event 1 (2023-04-01) >
Ticket Price: 50
Ticket Type: Premium 🗸
Ticket Quantity: 5
Total Price: 250
Buy Tickets

## **Testing Code:**

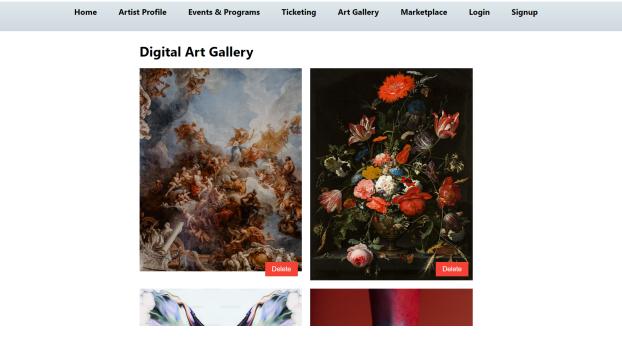
```
import React from 'react';
import { shallow } from 'enzyme';
import TicketingSystem from '../TicketingSystem';

describe('TicketingSystem', () => {
  let wrapper;
  beforeEach(() => {
```

```
wrapper = shallow(<TicketingSystem />);
  });
   expect(wrapper).toBeTruthy();
 });
 it('should initialize state properly', () => {
     eventName: '',
     ticketType: '',
     ticketQuantity: '',
     totalPrice: 0,
   };
   expect(wrapper.find('TicketForm').state()).toEqual(expectedState);
 });
 it('should update state when event name is selected', () => {
   const mockEventName = 'Event 1';
   wrapper.find('TicketForm').prop('handleEventNameChange')({ target: {
value: mockEventName } });
expect(wrapper.find('TicketForm').state('eventName')).toEqual(mockEventNam
e);
 });
 it('should update state when ticket type is selected', () => {
   wrapper.find('TicketForm').prop('handleTicketTypeChange')({ target: {
value: mockTicketType } });
expect(wrapper.find('TicketForm').state('ticketType')).toEqual(mockTicketT
ype);
 });
 it('should update state when ticket quantity is entered', () => {
   const mockTicketQuantity = '3';
   wrapper.find('TicketForm').prop('handleTicketQuantityChange')({
target: { value: mockTicketQuantity } });
```

```
expect(wrapper.find('TicketForm').state('ticketQuantity')).toEqual(mockTic
ketQuantity);
 });
\overline{\text{selected', }} () \overline{\text{=>}} {
    const mockEventName = 'Event 1';
    wrapper.find('TicketForm').prop('handleEventNameChange')({ target: {
value: mockEventName } });
    wrapper.find('TicketForm').prop('handleTicketQuantityChange')({
target: { value: mockTicketQuantity } });
    expect(wrapper.find('TicketForm').state('totalPrice')).toEqual(150);
  });
    wrapper.find('TicketForm').prop('handleTicketSubmit')(mockEvent);
    expect(mockEvent.preventDefault).toHaveBeenCalled();
    expect(window.alert).toHaveBeenCalledWith('Payment Done');
  });
});
```

# **Art Gallery Section**



This section allows user to display their art and also delete the existing art

## Testing Code:

```
import React from 'react';
import { render, fireEvent, screen } from '@testing-library/react';
import DigitalArtGallery from '../DigitalArtGallery';

describe('DigitalArtGallery', () => {
   it('should add a new artwork when "Add Art" button is clicked', () => {
      render(<DigitalArtGallery />);
      const newArtUrl = 'https://example.com/new-art.jpg';
      const input = screen.getByPlaceholderText('Enter image URL');
      fireEvent.change(input, { target: { value: newArtUrl } });
      const addButton = screen.getByText('Add Art');
      fireEvent.click(addButton);
      const newArt = screen.getByAltText('Digital Artwork', { src: newArtUrl });
      expect(newArt).toBeInTheDocument();
   });

it('should delete an artwork when "Delete" button is clicked', () => {
      render(<DigitalArtGallery />);
      const deleteButton = screen.getByText('Delete');
```

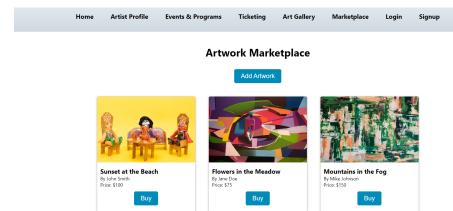
```
fireEvent.click(deleteButton);
  const deletedArt = screen.queryByText('Delete');
  expect(deletedArt).not.toBeInTheDocument();
});

it('should add a new artwork when a file is uploaded', () => {
  render(<DigitalArtGallery />);
  const file = new File(['test'], 'test.png', { type: 'image/png' });
  const fileInput = screen.getByLabelText('Upload file');
  fireEvent.change(fileInput, { target: { files: [file] } });
  const newArt = screen.getByAltText('Digital Artwork', { src:
'data:image/png;base64,dGVzdA==' });
  expect(newArt).toBeInTheDocument();
});
});
```

#### Result:

```
Test Suites: 6 failed, 6 total
Tests: 16 failed, 2 passed, 18 total
Snapshots: 0 total
Time: 6.855 s
Ran all test suites.
```

## **Artwork Place:**



Users will be allowed to sell their artwork. New artwork can be added and then on click of the button, generates a form and takes the necessary information and generate a message.

## Testing Code:

```
import React from "react";
import { render, screen, fireEvent } from "@testing-library/react";
import Marketplace from "../Marketplace";
describe("Marketplace", () => {
 it("displays the artworks", () => {
   render(<Marketplace />);
   const artworks = screen.getAllByRole("img");
   expect(artworks.length).toBe(3);
 });
   render(<Marketplace />);
   fireEvent.click(addButton);
   const titleInput = screen.getByLabelText("Title:");
   const priceInput = screen.getByLabelText("Price:");
   const imageInput = screen.getByLabelText("Image URL:");
   const saveButton = screen.getByText("Save");
   fireEvent.change(titleInput, { target: { value: "New Artwork" } });
   fireEvent.change(artistInput, { target: { value: "John Doe" } });
   fireEvent.change(priceInput, { target: { value: "50" } });
   fireEvent.change(imageInput, { target: { value:
"https://example.com/new-artwork.jpg" } });
   fireEvent.click(saveButton);
   expect(newArtwork).toBeInTheDocument();
 });
```

```
it("confirms a purchase", () => {
    render(<Marketplace />);
    const buyButton = screen.getAllByText("Buy")[0];
    fireEvent.click(buyButton);

const nameInput = screen.getByLabelText("Name:");
    const emailInput = screen.getByLabelText("Email:");
    const addressInput = screen.getByLabelText("Address:");
    const confirmButton = screen.getByText("Confirm Purchase");

    fireEvent.change(nameInput, { target: { value: "John" } });
    fireEvent.change(emailInput, { target: { value: "john@example.com" } });

    fireEvent.click(confirmButton);

    const successMessage = screen.getByText("Thank you for your purchase,
John!");
    expect(successMessage).toBeInTheDocument();
    });
});
```

The website also has sign up and login page too

# Login

Email:	
Password:	
Login	

Signup
Name:
Email:
Password:

Here is the git hub link for the code:

https://github.com/ashith1101/Art\_website-SE-Assignment-