CLASS: F.Y. MCA SEM: II

COURSE CODE: MC509   SUBJECT NAME: MOBILE PROGRAMMING LAB

ROLL NO./UCID : 2023510032   **BATCH: B**

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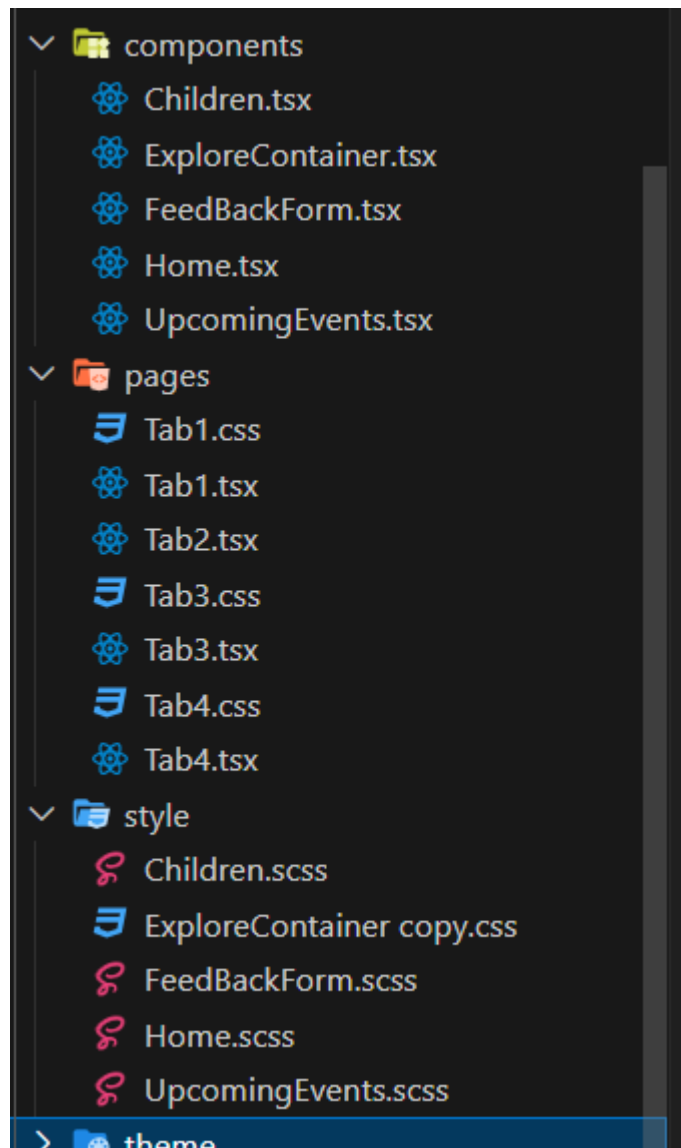
EXPERIMENT NO: 02

EXPERIMENT TITLE: To Create MeuseumIn Ionic

Tools Required: Ionic, VSCode

Files which are used for the application (.html, .scss, .ts etc) :

Children.tsx,   ExploreContainer.tsx   , FeedBackForm.tsx , Home.tsx, UpcomingEvents.tsx,   Tab1.tsx,   Tab2.tsx,   Tab3.tsx,   Tab4.tsx, Children.scss,   ExploreContainer.scss,   FeedBackForm.scss, Home.scss,   UpcomingEvents.scss

components
- Children.tsx
- ExploreContainer.tsx
- FeedBackForm.tsx
- Home.tsx
- UpcomingEvents.tsx

pages
- Tab1.css
- Tab1.tsx
- Tab2.tsx
- Tab3.css
- Tab3.tsx
- Tab4.css
- Tab4.tsx

style
- Children.scss
- ExploreContainer copy.css
- FeedBackForm.scss
- Home.scss
- UpcomingEvents.scss

> theme

Screenshot of the app made.

Museum

SEARCH

pottery

Covering the head of the wrapped mummy
in its coffin and activated by a magical

Home | Children | Upcoming Events | Feedback

Tab 2

Shapes and forms

LETS PLAY GAME !

Home   Children   Upcoming Events   Feedback

Upcoming Events

Event 1

Event Name
Date: January 1, 2025
Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Event 2

Event Name
Date: January 1, 2025
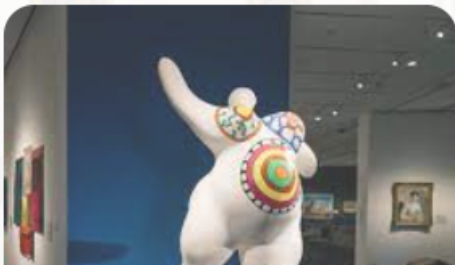Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Event 3

Event Name
Date: January 1, 2025
Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Event 4

Event Name
Date: January 1, 2025
Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Museum Feedback Form

Name

Durgesh

Email

durgesh23@gmail.com

Rate your experience

◉ Excellent

○ Good

○ Average

Would you recommend us?

◉ Yes

○ No

▲ Home   ● Children   ■ Upcoming Events   ■ Feedback

Feedback Form

◉ Excellent

○ Good

○ Average

Would you recommend us?

◉ Yes

○ No

Feedback

feedback

SUBMIT

Feedback Form

○ Excellent

○ Good

○ Average

Woul

Thank you!

Thank you Durgesh for your feedback! We will definatedly improve

OK

Feed

feedback

SUBMIT

▲ Home   ● Children   ■ Upcoming Events   ■ Feedback

Code :

```tsx
// ChildrenArtSection.tsx
import React from 'react';
import { IonContent, IonCard, IonCardHeader, IonCardTitle,
IonCardContent, IonButton } from '@ionic/react';
import '../style/Children.scss';

const Tab2: React.FC = () => {
  return (
    <IonContent className="children-art-section">
      <div className="container">
        <IonCard>
          <IonCardHeader>
            <IonCardTitle>Artistic Concepts for
Children</IonCardTitle>
          </IonCardHeader>
          <IonCardContent>
            <div className="concept">
              <img src="src\assets\color.png" alt="Color Theory" />
              <h1 className='para'>Color theory</h1>
              <a className='button'
href='https://www.sesamestreet.org/games?id=26835&destination=/home '
type='button' >Lets Play Game !</a>
            </div>
            <div className="concept">
              <img
src="https://www.completelykidsrichmond.com/wp-content/uploads/2012/10
/P1010003.jpg" alt="Shapes and Forms" />
              <p>Shapes and forms</p>
              <a className='button'
href='https://www.starfall.com/h/geometry/3D-space/?' type='button'
>Lets Play Game !</a>
```

```
          </div>
          <div className="concept">
            <img
src="https://www.mothermag.com/wp-content/uploads/2015/09/ChildrenMuse
ums_MotherMag.jpg" alt="Lines and Patterns" />
            <a className='button'
href='https://kids.nationalgeographic.com/' type='button' >Lets Play
Game !</a>
            <p>Lines and patterns</p>
          </div>
        </IonCardContent>
      </IonCard>


      <IonCard>
        <IonCardHeader>
          <IonCardTitle>Logical reasoning enhancing
tools</IonCardTitle>
        </IonCardHeader>
        <IonCardContent>
          <div className="history-element">
            <img
src="https://3.bp.blogspot.com/_7dMU1jlDrvo/TTc1IrdL3RI/AAAAAAAASg/JH
sb1t_hZes/s1600/Picture+007.jpg" />
            <p>Wire frames joined in together in one another</p>
          </div>
          <div className="history-element">
            <img
src="https://dynamic-media-cdn.tripadvisor.com/media/photo-o/16/63/a3/
a4/fun-with-water.jpg?w=1200&h=1200&s=1" />
            <p>Lab demonstration of natural phenomenons</p>
          </div>
          <div className="history-element">
```

```jsx
            <img
src="https://m.media-amazon.com/images/I/51gYK5+m80L.jpg" alt="Famous
Artists" />
                <p>Stoic doesn't control the world, but they control
always how they respond to the world</p>
            </div>
            <div className="history-element">
                <img
src="https://cdn.kastatic.org/ka-content-images/857e2efaf602e6e53e7f91
af46a0b944bfb9bd82.jpg" alt="Famous Artists" />
                <p>Artifact from Harappa and Mohenjodaro</p>
            </div>
          </IonCardContent>
        </IonCard>


        <IonCard>
          <IonCardHeader>
            <IonCardTitle>Essential Elements of Art History for
Children</IonCardTitle>
          </IonCardHeader>
          <IonCardContent>
            <div className="history-element">
              <img src="src\assets\monalisa.jpg" alt="Famous Artists"
/>
                <p>'Monalisa' is world famous painting of
Leonardo-Da-Vince</p>
            </div>
            <div className="history-element">
              <img src="src\assets\piramid.jpg" alt="Art Movements" />
              <p>Pyramids are most important reigns of egypts</p>
            </div>
            <div className="history-element">
```

```
                <img src="src\assets\culture.jpg" alt="Art from
Cultures" />
                <p>Dance plays tramendously important role in indian
culture</p>
            </div>
          </IonCardContent>
          </IonCard>


      </div>
    </IonContent>
  );
};


export default Tab2;
```

```
import React, { useState } from 'react';
import { IonContent, IonCard, IonCardHeader, IonCardTitle,
IonCardContent, IonItem, IonLabel, IonInput, IonTextarea, IonButton,
IonRadioGroup, IonRadio, IonItemDivider, IonAlert } from
'@ionic/react';
import '../style/FeedBackForm.scss'

const FeedbackForm: React.FC = () => {
  const [rating, setRating] = useState<number | undefined>(undefined);
  const [recommendation, setRecommendation] = useState<string |
undefined>(undefined);
  const [name, setName] = useState<string | undefined>(undefined);
  const [showAlert, setShowAlert] = useState<boolean>(false);

  const handleSubmit = (event: React.FormEvent<HTMLFormElement>) => {
    event.preventDefault();
```

```jsx
      setShowAlert(true);
  };


  return (
    <IonContent className="ion-padding black">
      <IonCard>
        <IonCardHeader>
          <IonCardTitle className="ion-text-center">Museum Feedback
Form</IonCardTitle>
        </IonCardHeader>
        <IonCardContent>
          <form id="feedbackForm" onSubmit={handleSubmit}>
            <IonItem>
              <IonLabel position="floating">Name</IonLabel>
              <IonInput type="text" name="name" value={name}
onIonChange={e=>setName(e.target.value)} required></IonInput>
            </IonItem>
            <IonItem>
              <IonLabel position="floating">Email</IonLabel>
              <IonInput type="email" name="email" required></IonInput>
            </IonItem>
            <IonItemDivider>Rate your experience</IonItemDivider>
            <IonRadioGroup value={rating} onIonChange={e =>
setRating(e.detail.value)}>
              <IonItem>
                <IonLabel>Excellent</IonLabel>
                <IonRadio slot="start" value={5} />
              </IonItem>
              <IonItem>
                <IonLabel>Good</IonLabel>
                <IonRadio slot="start" value={4} />
              </IonItem>
```

```jsx
              <IonItem>
                <IonLabel>Average</IonLabel>
                <IonRadio slot="start" value={3} />
              </IonItem>
            </IonRadioGroup>
            <IonItemDivider>Would you recommend us?</IonItemDivider>
            <IonRadioGroup value={recommendation} onIonChange={e =>
setRecommendation(e.detail.value)}>
                <IonItem>
                  <IonLabel>Yes</IonLabel>
                  <IonRadio slot="start" value="yes" />
                </IonItem>
                <IonItem>
                  <IonLabel>No</IonLabel>
                  <IonRadio slot="start" value="no" />
                </IonItem>
            </IonRadioGroup>
            <IonItem>
              <IonLabel position="floating">Feedback</IonLabel>
              <IonTextarea name="feedback" required></IonTextarea>
            </IonItem>
            <IonButton expand="block" type="submit">Submit</IonButton>
          </form>
          <IonAlert
      isOpen={showAlert}
      onDidDismiss={() => setShowAlert(false)}
      header={'Thank you!'}
      message={`Thank you ${name ? name : ''} for your feedback! We
will definatedly improve`}
      buttons={['OK']}
    />
          </IonCardContent>
```

```
      </IonCard>
    </IonContent>
  );
};


export default FeedbackForm;
```

//Home.tsx

```
// MuseumGallery.tsx
import React, { useState } from 'react';
import { Data, museumData } from '../assets/data';
import { IonContent, IonCard, IonCardHeader, IonCardTitle,
IonCardContent, IonSearchbar, IonButton } from '@ionic/react';
import '../style/Home.scss';


const Home: React.FC = () => {


const [museum,setMuseum] = useState<Data[]>(museumData);
const [data, setData] = useState<Data[] >(museum)
const [searchText, setSearchText] = useState<string>('');


const filteredData = museum.filter(item =>
    item.name.toLowerCase().includes(searchText.toLowerCase())
  );


const handleSearch = () =>{
    setData(filteredData);
}


  return (
    <IonContent className="ion-padding">
    <div className="search-container">
```

```tsx
        <IonSearchbar className="search-box" placeholder="Search..."
value={searchText} onIonChange={e =>
setSearchText(e.detail.value!)}></IonSearchbar>
        <IonButton className="search-button" expand="block"
onClick={handleSearch}>Search</IonButton>
    </div>
      <div className="gallery">
        {data.map((artifact) => (
          <IonCard key={artifact.key}>
            <img src={artifact.img} alt={artifact.name} />
            <IonCardHeader>
              <IonCardTitle>{artifact.name}</IonCardTitle>
            </IonCardHeader>
            <IonCardContent>
              <p>{artifact.desc}</p>
            </IonCardContent>
          </IonCard>
        ))}
      </div>
    </IonContent>
  );
};


export default Home;
//UpcommingEvents.tsx
import React from 'react';
import { IonContent, IonCard, IonCardHeader, IonCardTitle,
IonCardContent } from '@ionic/react';
import '../style/UpcomingEvents.scss';

const UpcomingEvents: React.FC = () => {
  return (
```

```jsx
<IonContent className="upcoming-events">
  <div className="background-image">
    <div className="grid-container">
      <IonCard className="event-card">
        <IonCardHeader>
          <IonCardTitle className="event-title">Event
1</IonCardTitle>
        </IonCardHeader>
        <IonCardContent>
          <div className="event-item">
          <div className="event-info">
            <h2 className="event-name">Event Name</h2>
            <p className="event-date">Date: January 1,
2025</p>
            <p className="event-description">Description:
Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>
          </div>
          </div>
          <div className="event-image">
          <img src="src\assets\dino.jpg" alt="Event Image"
/>
          </div>
        </IonCardContent>
      </IonCard>
      <IonCard className="event-card">
        <IonCardHeader>
          <IonCardTitle className="event-title">Event
2</IonCardTitle>
        </IonCardHeader>
        <IonCardContent>
          <div className="event-item">
          <div className="event-info">
```

```jsx
                        <h2 className="event-name">Event Name</h2>
                        <p className="event-date">Date: January 1,
2025</p>
                        <p className="event-description">Description:
Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>
                    </div>
                    </div>
                    <div className="event-image">
                    <img src="src\assets\face.jpg" alt="Event Image"
/>
                    </div>
                </IonCardContent>
            </IonCard>
        <IonCard className="event-card">
            <IonCardHeader>
                <IonCardTitle className="event-title">Event
3</IonCardTitle>
            </IonCardHeader>
            <IonCardContent>
                <div className="event-item">
                <div className="event-info">
                    <h2 className="event-name">Event Name</h2>
                    <p className="event-date">Date: January 1,
2025</p>
                    <p className="event-description">Description:
Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>
                    </div>
                    </div>
                    <div className="event-image">
                    <img src="src\assets\doll.jpg" alt="Event Image"
/>
                    </div>
```

```jsx
                </IonCardContent>
            </IonCard>
          <IonCard className="event-card">
                <IonCardHeader>
                    <IonCardTitle className="event-title">Event
4</IonCardTitle>
                </IonCardHeader>
                <IonCardContent>
                    <div className="event-item">
                    <div className="event-info">
                        <h2 className="event-name">Event Name</h2>
                        <p className="event-date">Date: January 1,
2025</p>
                        <p className="event-description">Description:
Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>
                    </div>
                    </div>
                    <div className="event-image">
                    <img src="src\assets\gallery.jpg" alt="Event
Image" />
                    </div>
                </IonCardContent>
            </IonCard>
        </div>
      </div>
    </IonContent>
  );
};

export default UpcomingEvents;
```

Answers to the questions specified in respective lab on Moodle:

@mixin: A mixin is a way to group CSS declarations together to be reused throughout your stylesheet. It's like a function for CSS.

@include: Used to include a mixin into a selector, applying the styles defined within themixin.

@extend: Allows a selector to inherit styles from another selector. It's similar to inheritance in object-oriented programming.

@import: Imports the content of another stylesheet into the current stylesheet.