

Assignment Topics

Question-1 (12 marks)

1. Design a simple responsive web application using **Bootstrap 4** that includes the following elements:
 - A **header** section with the title of the application.
 - A **button group** with three Bootstrap-styled buttons (e.g., Primary, Success, Danger), each triggering a different action when clicked (e.g., showing alerts or toggling content).
 - Use **Bootstrap grid system** to create a layout that displays three cards side-by-side on larger screens and stacks them vertically on smaller screens.
 - Apply a **Bootstrap theme** or utility classes to enhance the visual appeal (colors, spacing, typography).
2. Using **Bootstrap 4** and **jQuery**, design a simple interactive web page that includes the following features:
 1. Create a form with the following fields:
 - Name (input)
 - Email (input)
 - Message (textarea)
 - A **Submit** button styled using Bootstrap classes
 2. Use **jQuery selectors** to:
 - Access and validate the form fields when the **Submit** button is clicked.
 - Display an alert with the entered values if all fields are filled.
 3. Handle a **click event** on the Submit button using jQuery and prevent the default form submission behavior.
 4. Use a **Bootstrap modal** to display a confirmation message when the form is successfully submitted

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Wanderlust Travel</title>

  <!-- Bootstrap 4 CSS -->

  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">

  <style>

    body {

      background-color: #f8f9fa;

    }

    .header {

      background: linear-gradient(rgba(0,0,0,0.5), rgba(0,0,0,0.5)),

      background-position: center;

      color: black;

      padding: 2rem;

      text-align: center;

      margin-bottom: 2rem;

    }

    .card {

      transition: transform 0.3s;

    }

    .card:hover {

      transform: translateY(-5px);

    }

  </style>
```

```
</head>

<body>

  <!-- Header Section -->

  <header class="header">

    <h1 class="display-4">Wanderlust Travel</h1>

  </header>


  <!-- Main Content -->

  <div class="container">

    <!-- Button Group -->

    <div class="mb-4 text-center">

      <div class="btn-group" role="group" aria-label="Travel Actions">

        <button type="button" class="btn btn-primary mr-2"
onclick="showAlert('explore')">Explore Destinations</button>

        <button type="button" class="btn btn-success mr-2"
onclick="showAlert('book')">Book a Trip</button>

        <button type="button" class="btn btn-danger" onclick="showAlert('contact')">Contact
Us</button>

      </div>

    </div>


    <!-- Card Grid -->

    <div class="row">

      <div class="col-lg-4 col-md-6 mb-4">

        <div class="card h-100 shadow-sm">

          

          <div class="card-body">

            <h5 class="card-title">Paris, France</h5>

          </div>

        </div>

      </div>

    </div>

  </div>

</body>

</html>
```

<p class="card-text">Experience the city of love with its iconic landmarks and romantic atmosphere.</p>

</div>

</div>

</div>

<div class="col-lg-4 col-md-6 mb-4">

<div class="card h-100 shadow-sm">

<div class="card-body">

<h5 class="card-title">Tokyo, Japan</h5>

<p class="card-text">Discover the blend of traditional and modern in this vibrant metropolis.</p>

</div>

</div>

</div>

<div class="col-lg-4 col-md-6 mb-4">

<div class="card h-100 shadow-sm">

<div class="card-body">

<h5 class="card-title">New York, USA</h5>

<p class="card-text">Explore the city that never sleeps with its diverse culture and attractions.</p>

</div>

</div>

</div>

</div>

</div>

```
<!-- Bootstrap 4 JS and dependencies -->
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
<script>
    function showAlert(type) {
        let message;
        switch(type) {
            case 'explore':
                message = 'Explore our curated list of destinations!';
                break;
            case 'book':
                message = 'Ready to book your next adventure?';
                break;
            case 'contact':
                message = 'Need assistance? Contact our support team!';
                break;
        }
        alert(message);
    }
</script>
</body>
</html>
```

Wanderlust Travel

[Explore Destinations](#)[Book a Trip](#)[Contact Us](#)

Paris, France

Experience the city of love with its iconic landmarks and romantic atmosphere.



Tokyo, Japan

Discover the blend of traditional and modern in this vibrant metropolis.



New York, USA

Explore the city that never sleeps with its diverse culture and attractions.

Question -2 (28 marks)

1. A **Form Component** with the following fields:
 - Name (text input)
 - Email (text input)
 - Description (textarea)
 - A **Submit** button
2. When the form is submitted:
 - The entered data should be displayed as a **Card Component** below the form using **React Bootstrap cards** or custom-styled cards.
 - Use **React state (useState or this.state)** to store and manage the form input and submitted data.
 - Each submitted form should generate a **new card** with the user's input.
3. Use basic styling to make the layout visually appealing (spacing, shadows, padding).

In addition, your app should include:

1. **Header Component** – Display a title using props (e.g. Photo Gallery App).
2. **Image Carousel Component:**
 - Use a library like **React Bootstrap Carousel** or create a custom one.
 - Load at least **3 images** into the carousel.
 - Allow navigation through **Next** and **Previous** buttons (use state to track current image index).
 - Images can be local or from URLs.

3. Image Card Component:

- Display individual images using props (image source, title, and description).
- A button labeled **"View Full Image"** should open the image in a new tab.
- Use state to track how many times the image was viewed (i.e., button clicked).

4. Main Page Layout:

- At the top: Header
- Below: Carousel
- Then: A row of 3 Image Cards (use the same component with different props)

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>Travel Contact Form</title>
```

```
  <!-- Bootstrap 4 CSS -->
```

```
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
```

```
  <style>
```

```
    body {
```

```
      background-color: #f8f9fa;
```

```
      font-family: 'Arial', sans-serif;
```

```
    }
```

```
    .header {
```

```
      background: linear-gradient(rgba(0,0,0,0.5), rgba(0,0,0,0.5));
```

```
      background-size: cover;
```

```
      background-position: center;
```

```
      color: black;
```

```
      padding: 3rem;
```

```
      text-align: center;
```

```
    }
```

```
.form-container {
  background-color: #fff;
  border-radius: 10px;
  padding: 2rem;
  box-shadow: 0 4px 8px rgba(0,0,0,0.1);
  margin-top: 2rem;
}

.btn-travel {
  background-color: #007bff;
  border-color: #007bff;
  color: #fff;
}

.btn-travel:hover {
  background-color: #0056b3;
  border-color: #0056b3;
}

.form-control:focus {
  border-color: #007bff;
  box-shadow: 0 0 5px rgba(0,123,255,0.5);
}

</style>

</head>

<body>

  <!-- Header Section -->

  <header class="header">

    <h1 class="display-4">Contact Wanderlust Travel</h1>

    <p class="lead">Get in touch with us for your travel inquiries!</p>
```



```
</header>
```

```
<!-- Form Section -->
```

```
<div class="container form-container">
```

```
  <form id="contactForm">
```

```
    <div class="form-group">
```

```
      <label for="name">Name</label>
```

```
      <input type="text" class="form-control" id="name" placeholder="Enter your name">
```

```
    </div>
```

```
    <div class="form-group">
```

```
      <label for="email">Email</label>
```

```
      <input type="email" class="form-control" id="email" placeholder="Enter your  
email">
```

```
    </div>
```

```
    <div class="form-group">
```

```
      <label for="message">Message</label>
```

```
      <textarea class="form-control" id="message" rows="5" placeholder="Your message or  
inquiry"></textarea>
```

```
    </div>
```

```
    <button type="submit" class="btn btn-travel btn-block">Submit</button>
```

```
  </form>
```

```
</div>
```

```
<!-- Modal -->
```

```
<div class="modal fade" id="confirmationModal" tabindex="-1" role="dialog"  
aria-labelledby="modalTitle" aria-hidden="true">
```

```
  <div class="modal-dialog modal-dialog-centered" role="document">
```

```
    <div class="modal-content">
```

```

<div class="modal-header">
    <h5 class="modal-title" id="modalTitle">Thank You!</h5>
    <button type="button" class="close" data-dismiss="modal" aria-label="Close">
        <span aria-hidden="true">&times;</span>
    </button>
</div>

<div class="modal-body">
    <p>Your message has been received! We'll get back to you soon with travel tips and
information.</p>
    <p><strong>Name:</strong> <span id="modalName"></span></p>
    <p><strong>Email:</strong> <span id="modalEmail"></span></p>
    <p><strong>Message:</strong> <span id="modalMessage"></span></p>
</div>

<div class="modal-footer">
    <button type="button" class="btn btn-travel" data-dismiss="modal">Close</button>
</div>
</div>

</div>

</div>

</div>

<!-- Scripts -->
<script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
<script>
    $(document).ready(function() {
        // Handle form submission
        $('#contactForm').on('submit', function(event) {

```

```
event.preventDefault(); // Prevent default form submission
```

```
// Get form values
```

```
let name = $('#name').val().trim();
```

```
let email = $('#email').val().trim();
```

```
let message = $('#message').val().trim();
```

```
// Validate form fields
```

```
if (name === "" || email === "" || message === "") {
```

```
    alert('Please fill in all fields.');
```

```
    return;
```

```
}
```

```
// Validate email format
```

```
let emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
```

```
if (!emailRegex.test(email)) {
```

```
    alert('Please enter a valid email address.');
```

```
    return;
```

```
}
```

```
// Populate modal with form data
```

```
$('#modalName').text(name);
```

```
$('#modalEmail').text(email);
```

```
$('#modalMessage').text(message);
```

```
// Show confirmation modal
```

```
$('#confirmationModal').modal('show');
```

```
// Clear form

$('#contactForm')[0].reset();

});

});

</script>

</body>

</html>
```

Contact Wanderlust Travel

Get in touch with us for your travel inquiries!

Name

Email

Message



Please include an '@' in the email address. 'nithinA' is missing an '@'.