Course Code – INT221

Max Marks : 30

Max Time : 1 Hour

Registration Number: ---------------

Name: ----------------------------------

Question 1:

Scenario: You are building a Laravel application for a bookstore. You need to display a list of available books on a webpage. Each book has a title, author, and price.

Instructions:

1. **Create a route** in `web.php` to handle the request for displaying books.
2. **Create the Blade view** to display the list of books with their title, author, and price.

Expected Output: The page should display a list of books, like this:

- **Title:** The Great Gatsby | **Author:** F. Scott Fitzgerald | **Price:** $10
- **Title:** 1984 | **Author:** George Orwell | **Price:** $15

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

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Max Marks : 30

Max Time : 1 Hour

Question 2:

Scenario: In the same bookstore application, you need to display the details of a specific book on a page. The book's details (title, author, price, and description)

Instructions:

1. **Create a route** in `web.php` that handles displaying a book by its ID.
2. **Create the Blade view** to display the book's details, including its title, author, price, and description.

Expected Output: The page should display:

- **Title:** Laravel Handbook
- **Author:** Raman Singh
- **Price:** 100 Rs
- **Description:** A novel set in the 1920s.

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

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Name: ----------------------------------

Max Marks : 30

Max Time : 1 Hour

Question 3:

Scenario: You need to create a page where users can view a list of books that are currently on sale. The list of books should be passed to the view using the `compact()` function.

Instructions:

1. **Create a route** in `web.php` that handles displaying the sale books.
2. **Create the Blade view** to display the list of sale books, showing the title and sale price.

Expected Output: The page should display the following list of books on sale:

- **Title:** To Kill a Mockingbird | **Sale Price:** 7 Rs

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

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Registration Number: ---------------

Name: ----------------------------------

Max Marks : 30

Max Time : 1 Hour

Question 4:

Scenario: You are building a user profile page where you need to display the user's name, email, and registration date. You need to pass all these variables to the view from the controller.

Instructions:

1. **Create a route** that handles displaying the user's profile.
2. **Create the Blade view** to display the user's profile information in a readable format.

Expected Output: The page should display:

- **Name:** Student Name
- **Email:** Student@LPU.com
- **Registered On:** January 1, 2025

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

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Name: ----------------------------------

Max Marks : 30

Max Time : 1 Hour

Question 5:

Scenario: You are creating an admin dashboard to display the latest books and the total number of users in the application. The data should be passed to the view as an associative array.

Instructions:

1. **Create a route** for the admin dashboard.
2. **Create the Blade view** to display the latest books and the total number of users.

Expected Output: The page should display:

- **Latest Books:** (List of 5 latest books with titles)
- **Total Users:** (Total number of users)

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

Course Code – INT221

Max Marks : 30

Max Time : 1 Hour

Registration Number: ---------------

Name: ----------------------------------

Question 6:

Scenario: You need to share a company's name and the website URL globally across all views in your application. This should be done once in the service provider so that it is available on every page.

Instructions:

1. **Use the `View::share()` method** to pass the company name and website URL globally to all views.
2. **Create a Blade view** that uses the shared variables to display the company name and website.
3. **Create two blade file and show data**

Expected Output: Every page should display:

- **Company Name:** Awesome Bookstore
- **Website:** www.awesomebookstore.com

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

Course Code – INT221

Registration Number: ---------------

Name: ----------------------------------

Max Marks : 30

Max Time : 1 Hour

Question 7:

Scenario: You need to create a feature where the system saves the user's preference for receiving newsletters. The preference should be saved in a cookie that expires after 1 month.

Instructions:

1. **Create a route** to store the user's newsletter preference (e.g., `yes` or `no`) in a cookie.
2. **Create a controller method** that sets a cookie with the following details:
   - Name: `newsletter_preference`
   - Expiration: 1 month (30 days).

Expected Output:

- When the user selects `yes` or `no`, a cookie named `newsletter_preference` should be set with the respective value.
- The cookie should expire in 1 month.

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

Course Code – INT221

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Name: ----------------------------------

Max Marks : 30

Max Time : 1 Hour

Question 8:

Scenario: You want to implement a feature that allows users to change their preferred language and remove the previous `preferred_language` cookie when they select a new language.

Instructions:

1. **Create a route** that allows the user to change their preferred language and delete the old cookie.
2. Sets the new `preferred_language` cookie with the new value.
3. Deletes the old cookie if it exists.

Expected Output:

- When a user selects a new language, the previous `preferred_language` cookie should be deleted, and the new one should be set with the new language.
- The cookie should be set with a 1-day expiration time.

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

Course Code – INT221

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Name: ----------------------------------

Max Marks : 30

Max Time : 1 Hour

Question 9:

Scenario: You need to display the user's preferred language on a webpage after they have selected it in the previous step. You need to retrieve the `preferred_language` cookie and display a message in the selected language.

Instructions:

1. **Create a route** that displays a message based on the language stored in the cookie.
2. **Create a method** to retrieve the `preferred_language` cookie and show a message like: If the language is `en`, display: "Welcome!"

Expected Output:

- If the `preferred_language` cookie exists and is set to `fr`, the page should display: **Bienvenue!**
- If no cookie is set, the page should prompt: **Please select your preferred language.**

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

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Name: ----------------------------------

Max Marks : 30

Max Time : 1 Hour

Question 10:

Scenario: You are building a web application for a shopping cart. The application should store the user's preferred language in a cookie for future visits.

Instructions:

1. **Create a route** that handles setting a cookie for the user's preferred language.
2. **Use the `Cookie` facade** to set a cookie with the following details:
   o Name: `preferred_language`
   o Value: The language selected by the user (e.g., `en`, `fr`).
   o Expiration: 1 day.

Expected Output:

- The cookie should be set to expire in one day.

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

Course Code – INT221

Registration Number: ---------------

Name: ----------------------------------

Max Marks : 30

Max Time : 1 Hour

Question 11:

Scenario: You are building an API for a task management application. You need to create an endpoint that returns a list of tasks in JSON format. Each task should have the following properties: `id`, `title`, and `status` (e.g., "pending" or "completed").

Instructions:

1. **Create a route** that handles the request to get the list of tasks.

Expected Output: The JSON response should look like:

[

  ["id": 1, "title": "Task 1", "status": "pending"],

  ["id": 2, "title": "Task 2", "status": "completed"],

  ["id": 3, "title": "Task 3", "status": "pending"]

Question 12:

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

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Name: ----------------------------------

Max Marks : 30

Max Time : 1 Hour

Question 13:

Scenario: You are building a web application for user registration. After a user successfully registers, you need to redirect them to the homepage with a success message. Use Laravel's redirect functionality to do this.

Instructions:

1. **Create a route** for user registration.
2. **Create a method** that processes the registration form and redirects the user to the homepage with a success message using the `with()` method.
3. **Display the success message** on the homepage view.

Expected Output:

- Upon successful registration, the user should be redirected to the homepage with a success message like "Registration successful!".
- The homepage view should display the flash message.

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

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Name: ----------------------------------

Max Marks : 30

Max Time : 1 Hour

Question 14:

Scenario: You are building a blog application. After a user submits a new blog post, you want to redirect them to the newly created post's page using its route name.

Instructions:

1. **Create a route** for viewing a specific post by its `id`.
2. **Create a method** that handles creating a new blog post and redirects the user to the newly created post's page using Laravel's `route()` helper and the post's ID.
3. The post's route should be named `post.show`.

Expected Output:

- After a new post is created, the user should be redirected to the page for that specific post using its named route.
- The URL for the named route might look like `/post/{id}`, but it should be referenced using the named route `route('post.show', ['id' => $id])`.

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

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Max Marks : 30

Max Time : 1 Hour

Question 15:

Scenario: You are developing a website for a simple blog. You need to create a basic route that points to the homepage.

Instructions:

1. **Create a route** for the homepage (`/student/data`).
2. **Create a Blade File** method to return a simple welcome message or a view for the homepage.
3. **Show list of fruits and games name in a list format**

Expected Output:

- When a user visits the website (i.e., `/student/data`), they should see a welcome message like "Welcome to My Blog" or be redirected to a homepage view.

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

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Max Marks : 30

Max Time : 1 Hour

Question 16:

Scenario: You are building a blog application where each blog post has a unique identifier (`id`). You need to display a specific blog post based on the `id` passed in the URL.

Instructions:

1. **Create a route** in `web.php` that accepts a dynamic `id` parameter for displaying a specific blog post.
2. **Create a method** that retrieves the blog post by its `id` and returns a view displaying the blog title and content.
3. **Show list of fruits and games name in a list format**

Expected Output:

- A URL like `/post/1` should display the content for the post with `id = 1`.
- The controller should correctly retrieve the data using the `id` and pass it to the view.

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

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Name: ----------------------------------

Max Marks : 30

Max Time : 1 Hour

Question 17:

Displaying Views in Laravel

Scenario: You need to create a view to display a list of all blog posts. The blog posts should be fetched from a database or an array of dummy data.

Instructions:

1. **Create a route** for displaying all blog posts (e.g., `/posts`).
2. **Create a method** to fetch the posts and return them to a view called `posts.index`.
3. **Create a Blade view** (`resources/views/posts/index.blade.php`) to display the list of posts with their titles.

Expected Output:

- A URL like `/posts` should show a list of all blog posts, displaying their titles.
- Each post title should be displayed in an unordered list or table.

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

Course Code – INT221

Max Marks : 30

Max Time : 1 Hour

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Name: ----------------------------------

Question 18:

Passing Data to Views

Scenario: You are building a blog application and need to pass data to views. You need to pass a list of blog posts to the view, along with additional details like the author's name.

Instructions:

1. **Create a route** that will pass an array of blog posts to a view.
2. **Create a method** to define an array of blog posts and pass this data to the view using the `with()` method or `compact()` function.
3. **Create a Blade view** (`resources/views/posts/index.blade.php`) to display the list of posts along with the author's name.

Expected Output:

- The page should display a list of blog posts with the following information:
  - **Title**: Post Title
  - **Author**: Author Name
  - **Content**: Short description of the post

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

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Max Marks : 30

Max Time : 1 Hour

Title: "Post 1" | Author: John Doe | Content: "This is the first post"

Question 19:

Passing Data Using `with()` Method

Scenario: You need to display details about a specific blog post. The post's title, content, and author's name need to be passed to the view using the `with()` method.

Instructions:

1. **Create a route** for displaying a single post (`/post/{id}`).
2. **Create a controller method** that retrieves the blog post data by `id` and passes it to the view using `with()`.
3. **Create the Blade view** (`resources/views/post/show.blade.php`) to display the post's title, content, and author.

Expected Output:

- When visiting a URL like `/post/1`, the page should display:

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

- o **Title**: Post Title
- o **Author**: Author Name
- o **Content**: The content of the post.

Question 20:

Multiple Variables to Views

Scenario: You need to pass multiple variables from your controller to a view. The data to pass includes the blog posts, the number of posts, and the name of the site's administrator.

Instructions:

1. **Create a route** that passes the blog posts, post count, and administrator's name to the view.
2. **Create a controller method** that defines these variables and passes them to the view using `compact()`.
3. **Create a Blade view** to display:
   - o A list of blog posts.
   - o The total number of blog posts.
   - o The administrator's name.

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

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Expected Output:

- The view should display:
    - ○ A list of posts.
    - ○ The total number of posts (e.g., "Total Posts: 5").
    - ○ The administrator's name (e.g., "Admin: John Smith").

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

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Max Marks : 30

Max Time : 1 Hour

Question 21:

Handling Missing Route Parameters

Scenario: You are building a blog application where users can view blog posts by their `id`. If the `id` parameter is missing or then return a default values

Instructions:

1. **Create a route** to display a single post by `id`.
2. **Create a method** that checks if the `id` is provided and valid. then return a default values response.

Expected Output:

- If the `id` is missing or invalid, the system should return then return a default values.

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

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Max Marks : 30

Max Time : 1 Hour

Question 22:Returning Data Based on Route Parameters

Scenario: You want to create a dynamic URL where the user enter the number .

 Instructions:

1. **Create a route** with parameter .
2. **Blade page show table of a given number**

Expected Output:

2 x 1=2

2 x 2=4

2 x 3= 6

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

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Registration Number: ---------------

Name: -----------------------------------

Max Marks : 30

Max Time : 1 Hour

Question 23:

Attaching Headers to a Response

Scenario: You need to ensure that all responses from your application include a custom header called `X-Content-Type-Options` with the value `LPU`. You need to modify the response headers globally.

Instructions:

1. **Create a blade page and show a message header inserted**

   Expected Output:

   Header Inserted

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

Course Code – INT221

Max Marks : 30

Max Time : 1 Hour

Registration Number: ---------------

Name: ----------------------------------

Question 24:

Attaching Cookies to Responses

Scenario: You want to attach a cookie to the response that stores a user's session preference for dark mode. The cookie should expire in 7 days.

Instructions:

1. **Create a route** to toggle the user's dark mode preference..
2. Set the cookie's expiration time to 7 days.

Expected Output:

- The cookie should expire in 7 days.

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

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Name: ----------------------------------

Max Marks : 30

Max Time : 1 Hour

Question 25:

Redirecting to Named Routes

Scenario: You have a route named `dashboard` that leads to the dashboard page. After a user logs in, you want to redirect them to this named route.

Instructions:

1. **Create a named route** for the dashboard page.
2. **In the controller,** after the user logs in, redirect them to the `dashboard` route using the `route()` helper method.

Expected Output:

- After successful login, the user should be redirected to the `dashboard` route.

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

Course Code – INT221

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Name: ----------------------------------

Max Marks : 30

Max Time : 1 Hour

Question 26:

JSON Response with Validation Errors

Scenario: You are building an API for submitting feedback.

Instructions:

1. **Create a route** for submitting feedback (`/api/feedback`).
2. **Create a method** that validates the feedback data (e.g., `name` and `message`).

Expected Output:

- If the user submits invalid data, the JSON response should contain validation errors:

```
{   "errors": {

 "name": ["The name field is required."],

  "message": ["The message field is required."]

 }
```

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	

Course Code – INT221

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Name: ----------------------------------

Max Marks : 30

Max Time : 1 Hour

Question 27

Scenario: You want to display a simple list of portfolio projects on a webpage.

Instructions:

1. Create a route that returns a view (`projects.index`) to display a list of portfolio projects.
2. Create controller method to pass an array of projects to the view.
3. Create a Blade view (`resources/views/projects/index.blade.php`) that loops through the list of projects and displays their titles.

Expected Output:

- The view should display a list of projects, such as:
  - Project 1
  - Project 2
  - Project 3

Criteria	Description	Marks	Evaluation
Written	Exact Output Match" in Laravel means the program's output must precisely match the expected result	10 Marks	
Visual Implementation	Write the Code as per Visual Implementation.	10 Marks	
Viva	Measures the student's ability to explain the solution during the viva, demonstrating understanding of the problem, approach, and the Laravel functions used. Also considers the ability to answer related questions confidently.	10 Marks	