

ASSIGNMENT:



DIPLOMA IN INFORMATION TECHNOLOGY- LEARNING SIMPLIFIED

**SUBJECT CODE: DCS2102E/DCS2116E
SUBJECT: RAPID APPLICATION DEVELOPMENT
PROJECT- 40%**

PROJECT

(A group may consist of a maximum of 3 members)

LEARNING OUTCOMES:

CLO 1: Apply the principles and concepts of Rapid Application Development. [C3, PLO1]

CLO 2: Apply cloud services in application development. [C3, PLO1]

Project: Travel Guide & Booking Platform

Requirements

Design and implement a website with ASP.NET according to the specified requirements:

1. Homepage:

- **Title:** Display the website's name and a captivating tagline like "Explore the World with Ease."
- **Content:**
 - Highlight top travel destinations, user testimonials, and promotional offers.
 - Call-to-Action (CTA): "Plan Your Trip Now!"

2. User Registration and Login:

- **Functionality:** Allow users to create accounts using email or social login (Google, Facebook).
- **Annotation:** "Create an account to access personalized travel deals."
- **Features:**
 - Account verification
 - Forgot password feature

3. Destination Browsing Page:

- **Functionality:**
 - Showcase travel destinations with images, descriptions, and reviews.
 - Filter options by continent, activity type (beaches, hiking), and budget.
- **Annotation:** "Discover hidden gems across the world."

4. Itinerary Planner:

- **Functionality:** Allow users to create custom travel itineraries by selecting places, accommodations, and activities.
- **Annotation:** "Plan your dream trip effortlessly."
- **Features:**
 - Drag-and-drop itinerary creation
 - Estimated travel time and cost calculation

5. Booking System:

- **Functionality:**
 - Integrate a booking form for flights, hotels, and local tours.
 - Provide secure payment options with real-time confirmation.
- **Annotation:** "Book everything you need for your trip in one place."

6. Interactive Map Integration:

- **Technology:** Use APIs like Google Maps to visualize travel destinations.
- **Annotation:** "Explore destinations and travel routes on an interactive map."

7. Travel Blog Page:

- **Functionality:**
 - Users can read and contribute travel stories and tips.
 - Include categories like solo travel, family trips, and luxury travel.
- **Annotation:** "Get inspired by amazing travel experiences."

8. Admin Dashboard:

- **Functionality:** Manage user accounts, bookings, and blog content.
- **Features:**
 - Analytics for visitor traffic
 - User and booking management tools

9. Search and Filtering Functionality:

- **Functionality:**
 - Search bar for destinations and articles
 - Advanced filters based on price range, reviews, or season

10. Error Handling:

- **Requirement:** Handle errors like payment failures or unavailable services with clear messages.
- **Annotation:** "Ensure smooth user experiences by providing meaningful error messages."

12. Analytics Integration:

- Track user behavior to optimize content and features (e.g., Google Analytics). - if any.

13. Styling and Layout:

- Design the website with a visually appealing and user-friendly layout. Use high-quality images, clear typography, and intuitive navigation to enhance the user experience.

Submission Guidelines:

1. Website Folder (ZIP File):

- Compress your entire website project folder into a ZIP file.
- Include all necessary code, assets, and documentation.

2. Documentation:

- Create a short PDF that includes:
 - A brief description of the website.
 - Instructions on how to run or deploy the website.
 - Any additional features you added.
 - An overview of your code structure.
 - Mention of any libraries or frameworks used.
 - Explanation of how errors are handled.

Rubrics

Grading Criteria	Excellent	Good	Satisfactory	Needs Improvement	Inadequate	Not Submitted	MARKS
Functionality (40%) Performs accurate operations	The app performs all basic arithmetic operations accurately and handles complex calculations efficiently.	The app performs most basic arithmetic operations accurately and handles common calculations with ease.	The app performs basic arithmetic operations but may have occasional calculation errors or limitations.	The app struggles to perform basic arithmetic operations accurately and lacks key functionality.	The app fails to perform basic arithmetic operations or is non-functional.		
User Interface (15%) Well-designed and user-friendly	The UI is exceptionally well-designed, visually appealing, and highly intuitive for users. It provides an outstanding user experience.	The UI is well-designed, visually appealing, and user-friendly, enhancing the user's experience.	The UI is acceptable but may lack some visual appeal or ease of use. It provides a satisfactory user experience.	The UI has design flaws or lacks user-friendliness, making it challenging for users to navigate and use.	The UI is poorly designed and not user-friendly, causing a frustrating user experience.		
Error Handling (10%) Graceful error handling	The app handles errors gracefully, providing clear error messages and preventing invalid operations effectively.	The app generally handles errors well but may lack clarity in error messages or occasionally allow invalid operations.	The app handles errors to some extent but lacks consistency or clear error messaging.	The app struggles to handle errors effectively, leading to confusion or instability.	The app does not handle errors properly, resulting in frequent crashes or incorrect behavior.		
Styling and Layout (10%) Visual appeal and layout	The app is exceptionally visually appealing, with a well-thought-out layout that enhances the overall user experience.	The app is visually appealing, with a thoughtfully designed layout that contributes to the user's satisfaction.	The app has an acceptable visual design and layout, but there may be some room for improvement.	The app lacks visual appeal and has layout issues that affect the user experience.	The app is poorly styled and has a confusing or cluttered layout, detracting from the user experience.		
Documentation and Readability (20%) Code and instructions	The code is exceptionally well-documented, easy to follow, and accompanied by clear and comprehensive instructions.	The code is well-documented, easy to understand, and supported by clear instructions for building and running the app.	The code is adequately documented, but there may be some gaps in clarity or completeness in the instructions.	The code documentation is insufficient, making it challenging to understand the code, or the instructions are unclear.	The code lacks documentation, making it nearly impossible to understand, and there are no instructions provided.		
Bonus Marks (5%)	Up to 5 bonus marks for exceptional additional features, well-documented and demonstrated.	Up to 3 bonus marks for good extra features with documentation.	Up to 2 bonus marks for some attempted bonus features, partially functional or documented.	Up to 1 bonus mark for limited or incomplete bonus features with minimal documentation.	No bonus features were implemented.		
							TOTAL MARKS