

## ✓ Assignment – 10

### Title: One Page “Smart City Tourism Information Portal”

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#### ⌚ Problem Statement

Design and develop a **Single Page Smart City Tourism Portal** for visitors.

The webpage should:

- Display city introduction
- Provide navigation menu
- Show tourist places
- Embed Google Map using iframe
- Display weather or tourism video using iframe
- Use proper head elements
- Use semantic layout elements
- Draw graphics using canvas
- Use responsive viewport meta tag
- Use internal CSS for layout (Flexbox or Grid)

Only ONE HTML file should be created.

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#### 📌 Mandatory Implementation Requirements

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#### ◆ ① Head Section (Compulsory)

Your <head> must include:

- <title> → Meaningful SEO-friendly title
- <meta charset="UTF-8">
- <meta name="description">
- <meta name="keywords">

- <meta name="author">
  - <meta name="viewport">
  - <style> → Internal CSS
  - <script> → For canvas drawing
  - <base> → Define default link target
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## ◆ ② Layout Structure (Semantic Elements Required)

You must structure your page using:

- <header>
  - <nav>
  - <section>
  - <article>
  - <aside>
  - <footer>
  - <details>
  - <summary>
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## ◆ ③ Page Sections to Create

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### Header Section

Include:

- City name
  - Logo image
  - Tagline
  - Navigation menu (Home, Attractions, Map, Contact)
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### Navigation Section (<nav>)

Create navigation links.

Use <base> so all links open in new tab.

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## 📍 Section 1 – About the City (<section> + <article>)

Include:

- City introduction paragraph
  - Highlight key facts
  - Use <details> and <summary> for:
    - History
    - Culture
    - Climate
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## 🚩 Section 2 – Tourist Attractions

Use:

- <article> for each place
- Image
- Description

Use **CSS Flexbox or Grid** for multi-column layout.

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## weathermap Section 3 – Weather / Tourism Video (Iframe)

Embed:

- YouTube tourism video OR
- Weather website OR
- Google Maps location

Requirements:

- Use <iframe>
- Set height and width
- Remove border using CSS
- Add proper title attribute

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## Section 4 – Map (Iframe Target Feature)

Create:

- One iframe with `name="mapFrame"`
  - Create links that load different locations inside the iframe using `target="mapFrame"`
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## Section 5 – Canvas Graphics

Create a `<canvas>` element that draws:

- A welcome banner
- Or tourism statistics chart
- Or colorful text “Welcome to Smart City”

Requirements:

- Must use JavaScript
  - Must define id
  - Must set width & height
  - Must add border
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## Aside Section

Create a sidebar containing:

- Upcoming events
  - Quick links
  - Emergency contact numbers
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## Footer Section

Include:

- Copyright

- Contact email
  - Social media links
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## Layout Requirements

Use:

- CSS Flexbox OR CSS Grid
  - Responsive design using viewport meta
  - At least 2-column layout
  - Proper spacing and alignment
  - Clean professional UI
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## Iframe Requirements

You must demonstrate:

- Basic iframe
  - Height & width usage
  - Border removal
  - Named iframe
  - Link target loading inside iframe
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## Head Element Usage Checklist

Your page must include:

- <title>
  - <meta>
  - <style>
  - <script>
  - <base>
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## Canvas Requirements

You must draw at least:

- One rectangle
  - One text
  - One gradient OR colored shape
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## Submission Instructions

File Name:  
assignment9\_smart\_city\_portal.html

Submit only one HTML file.

No external CSS allowed.