

✓ Assignment – 10

Title: One Page “Smart City Tourism Information Portal”

🎯 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.

✂ Mandatory Implementation Requirements

◆ 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>`
-

◆ ③ Page Sections to Create

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.

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

Include:

- City introduction paragraph
 - Highlight key facts
 - Use `<details>` and `<summary>` for:
 - History
 - Culture
 - Climate
-

Section 2 – Tourist Attractions

Use:

- `<article>` for each place
 - Image
 - Description
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Use **CSS Flexbox or Grid** for multi-column layout.

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

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
-

Aside Section

Create a sidebar containing:

- Upcoming events
 - Quick links
 - Emergency contact numbers
-

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>`
-

Canvas Requirements

You must draw at least:

- One rectangle
- One text
- One gradient OR colored shape

Submission Instructions

File Name:

assignment9_smart_city_portal.html

Submit only one HTML file.

No external CSS allowed.