Please create HTML codes compatible with Edge, Firefox, and Chrome.

You can use JavaScript and CSS. If you are unsure about the question, feel free to make all the necessary UI behavior assumptions and state them in a separate document.
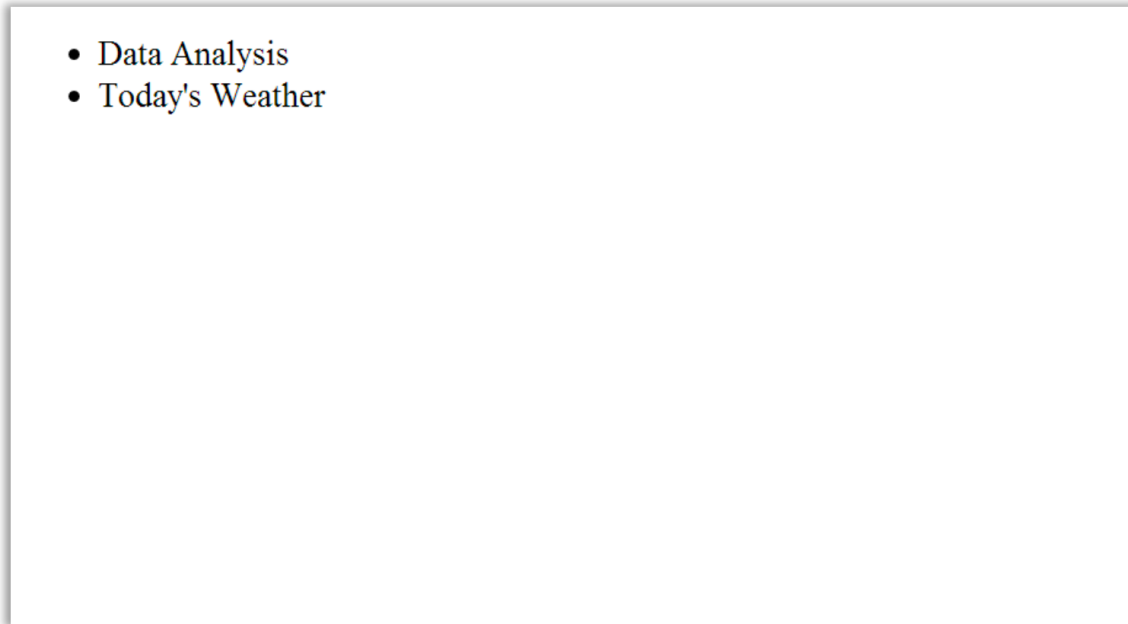
Your deliverables are:

- HTML pages containing the answers to the questions
- Any additional files (images, JavaScript, CSS) that accompany the HTML files -
(optional) a separate MS Word or txt file containing your assumptions

Your answer will be evaluated based on:

- Feature completeness
- Code readability (naming convention, comments, etc) - Web Standards compliance
- Code reusability and extendibility
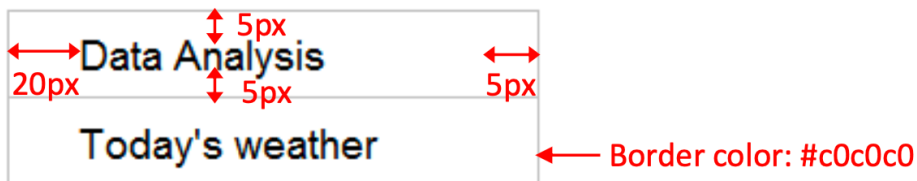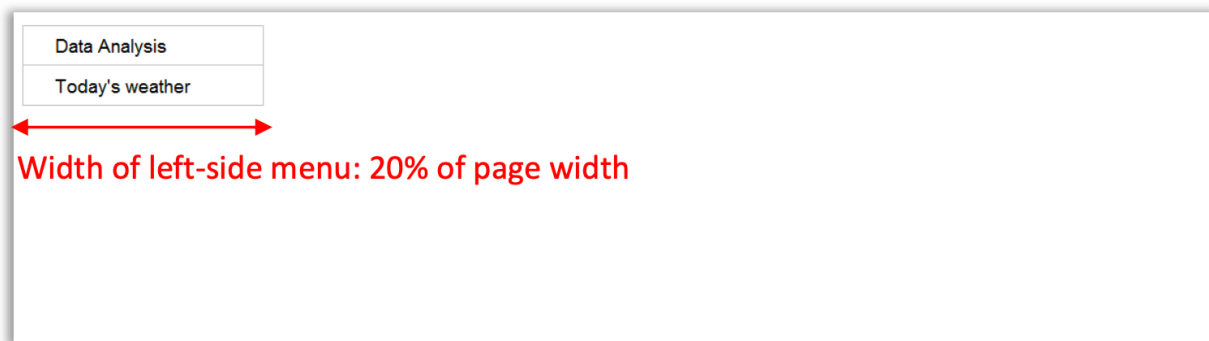- Compatible with different display resolution of clients

Task 1:

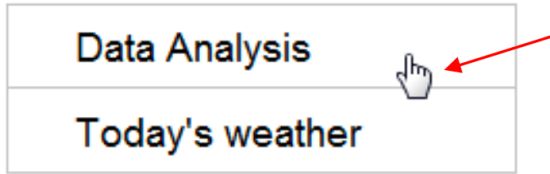There is a home page as the following picture:

- Data Analysis
- Today's Weather

(File location: *index.html*)

Please change the style of the left-side menu based on the following specification:

Data Analysis

Today's weather
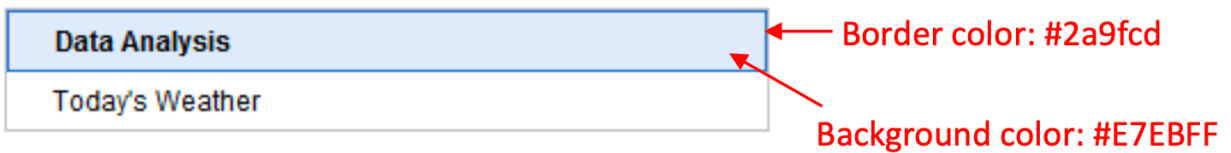
Width of left-side menu: 20% of page width

‡ 5px

←→Data Analysis ←→

20px   ‡ 5px   5px

Today's weather

←— Border color: #c0c0c0

Font size: 12px; Font family: Arial

When the cursor hovers menu items, change the cursor to the following style:

Data Analysis
Today's weather

When user clicks a menu item, highlight the selected item to the following style:

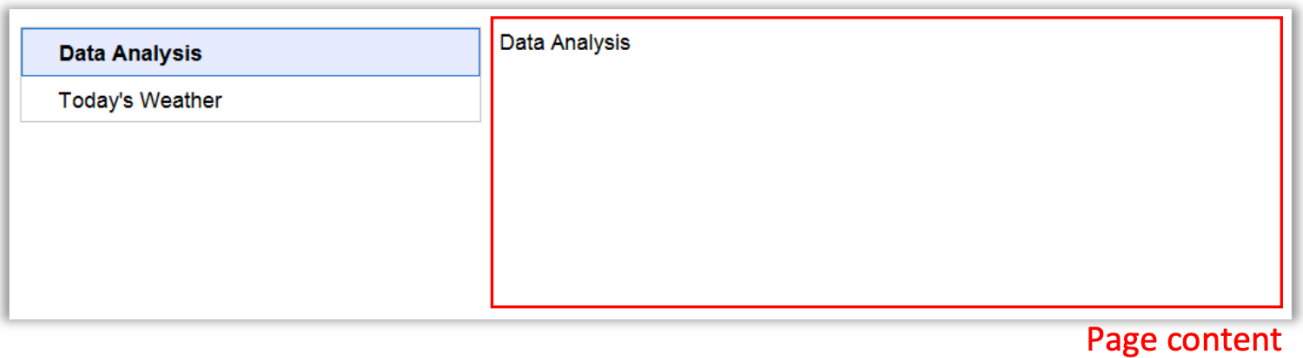| |
|---|
| **Data Analysis** |
| Today's Weather |

Border color: #2a9fcd

Background color: #E7EBFF

Font style: bold

Task2:

When user selects a menu item, dynamically load corresponded page and resources files to home page.

Ex: When user clicks the link "Data Analysis", show as the following picture:

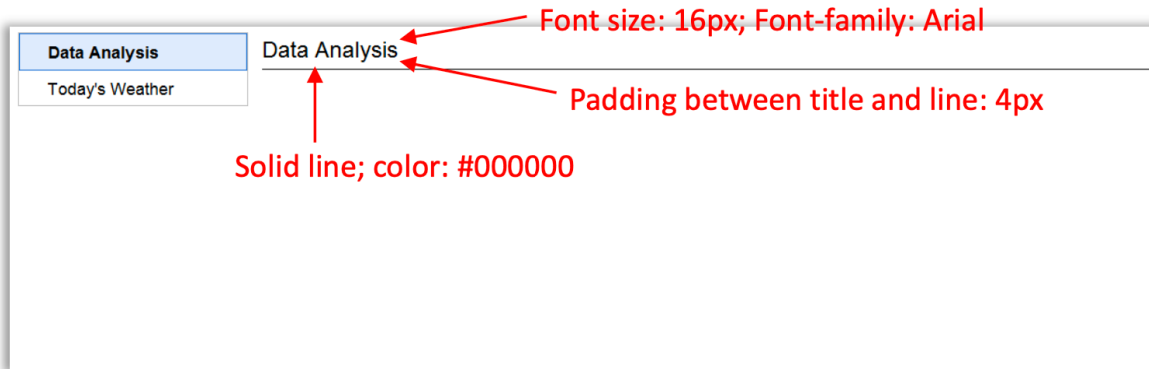| Data Analysis	Data Analysis
Today's Weather	

Page content

If user select the other menu item, switch the content to corresponded page.

Please refer the following information to implement:

Menu item	Page and resource files
Data Analysis	template\dataAnalysis.html
	css\dataAnalysisStyle.css
	js\dataAnalysisController.js
Today's Weather	template\todayWeather.html
	css\todayWeatherStyle.css
	js\todayWeatherController.js

Task3:

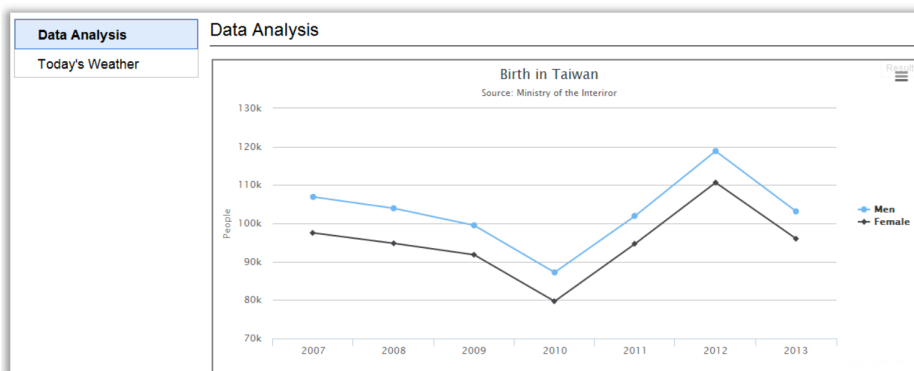Please refer to the following information to implement page "Data Analysis".

Font size: 16px; Font-family: Arial

Padding between title and line: 4px

Solid line; color: #000000

Show a line chart under page title based on the following data:

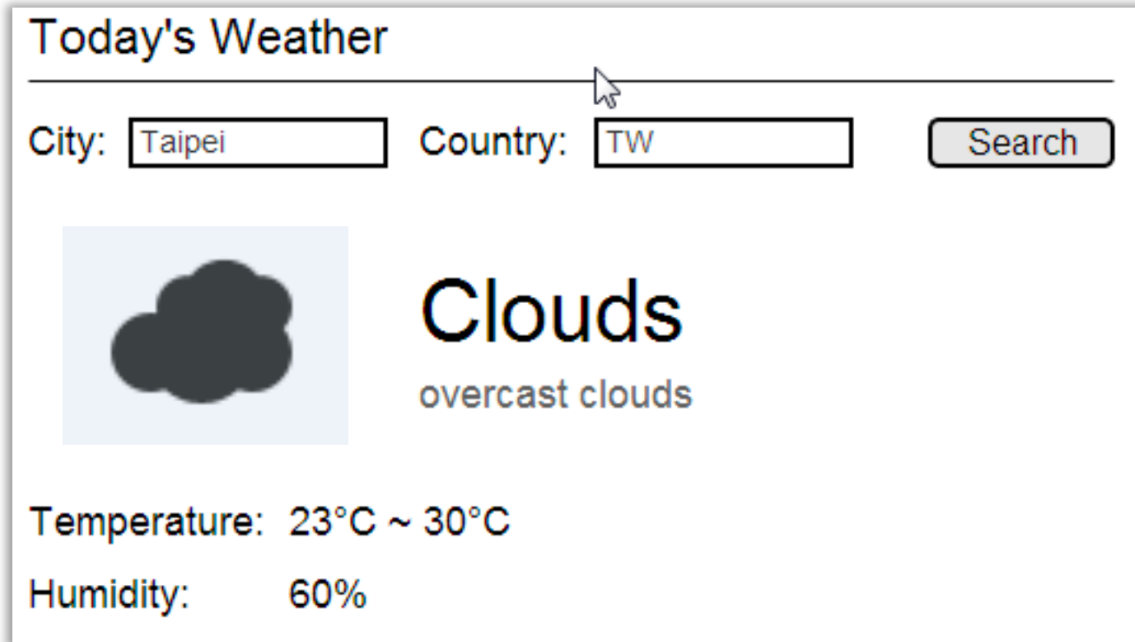| Year	Birth in Taiwan	
	Men	Female
2007	106,898	97,516
2008	103,937	94,796
2009	99,492	91,818
2010	87,213	79,673
2011	101,943	94,684
2012	118,848	110,633
2013	103,120	95,993

You can use any 3-party libraries to complete the task.

Ex:

Task4:

Please refer to the following mockup to implement page "Today's Weather".

You can set appropriate styles on your own when implementation.

Requirements:

1. User can input city and country name to get weather information and display them on

    UI. Please use AJAX to get weather information from *OpenWeatherMap.

2. Display information at least based on mock up UI.

*You can use API from OpenWeatherMap to get weather data by city and country name.

Ex:
Request URL:

https://api.openweathermap.org/data/2.5/weather?q=Taipei,TW&units=metric&appid=0cbfb602c7dbbb3653fda45bbf1ec1bf

Response (JSON):

{"coord":{"lon":121.53,"lat":25.05},"sys":{"message":0.0199,"country":"TW","sunrise": 1398719962,"sunset":1398766982},"weather":[{"id":803,"main":"Clouds","description": "overcast clouds","icon":"04d"}],"base":"cmc stations","main":{"temp":23.07,"pressure":1013,"humidity":60,"temp_min":23,"temp_max":30},"wind":{"speed":6.2,"deg":80,"var_beg":50,"var_end":110},"clouds":{"all":75} ," dt":1398754800,"id":1668341,"name":"Taipei","cod":200}

(You can refer https://openweathermap.org/history to get more detailed information)

3. Use CSS sprite to show current weather on UI. (Sprite's file location: img\icons.png)

- If weather description contains string "cloud", show the following picture:

- If weather description contains string "rain", show the following picture:

- If weather description contains string "clear", show the following picture:

- If weather description is not in above conditions, show the following picture:

4. During weather query, an AJAX loading image is required.

   Ex :

5. If user inputs invalid city or country name, show appropriate message on UI. Ex:
   Request URL:

Ex:
Request URL:
http://api.openweathermap.org/data/2.5/weather?q=ex,uk&appid=0cbfb602c7dbbb3653fda45bbf1ec1bf

Response (JSON):
{"message":"Error: Not found city","cod":"404"}