

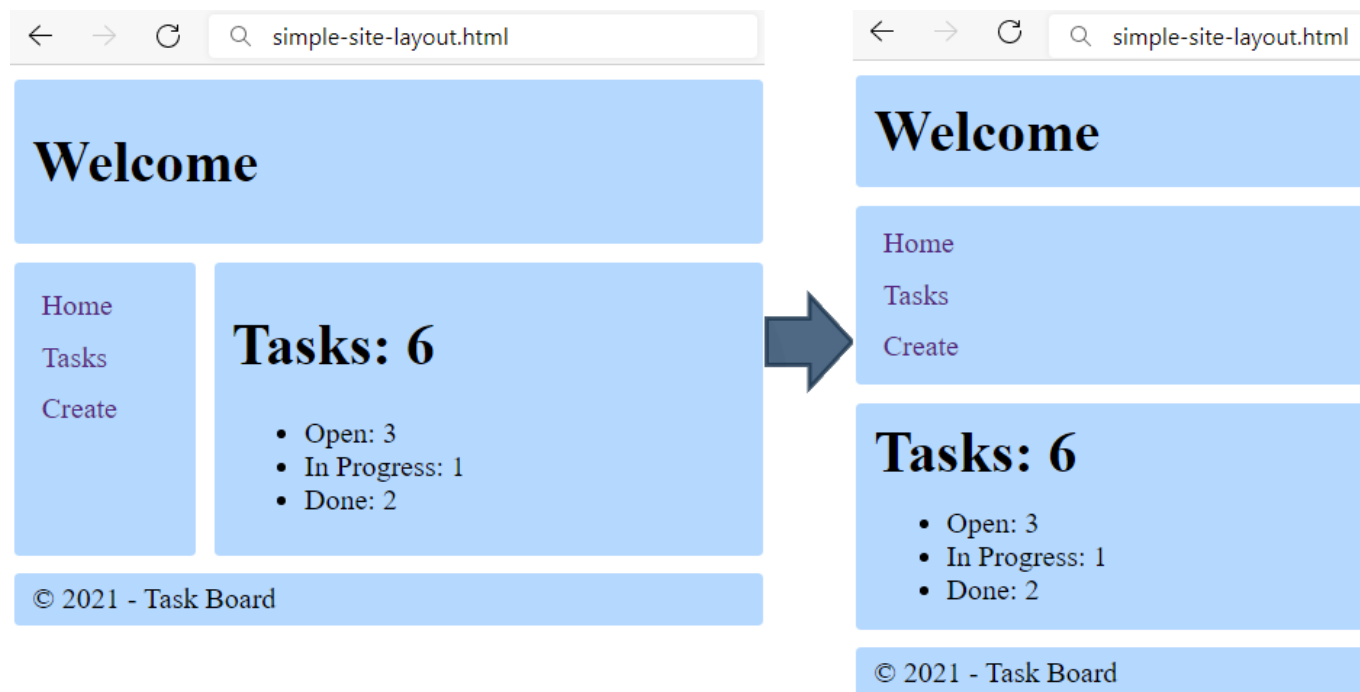
## Exercise: Media Queries

Problems for exercises and homework for the ["HTML and CSS" course @ SoftUni](#). Submit your solutions in the SoftUni Judge system at <https://judge.softuni.org/Contests/3336/Media-Queries>.

### 1. Responsive Site Layout

Use the solution from the previous task and **create responsive layout** by using **media query**.

The behavior of the Web page should be like the following:



Define a **maximum width** of **500px**, if the screen is less than that, set in the **body** new **grid template areas**: **"header header"**, **"aside aside"**, **"main main"**, **"footer footer"**, and **display** the **h1** tag in the **header** as **block**, and with **margin bottom 5px**

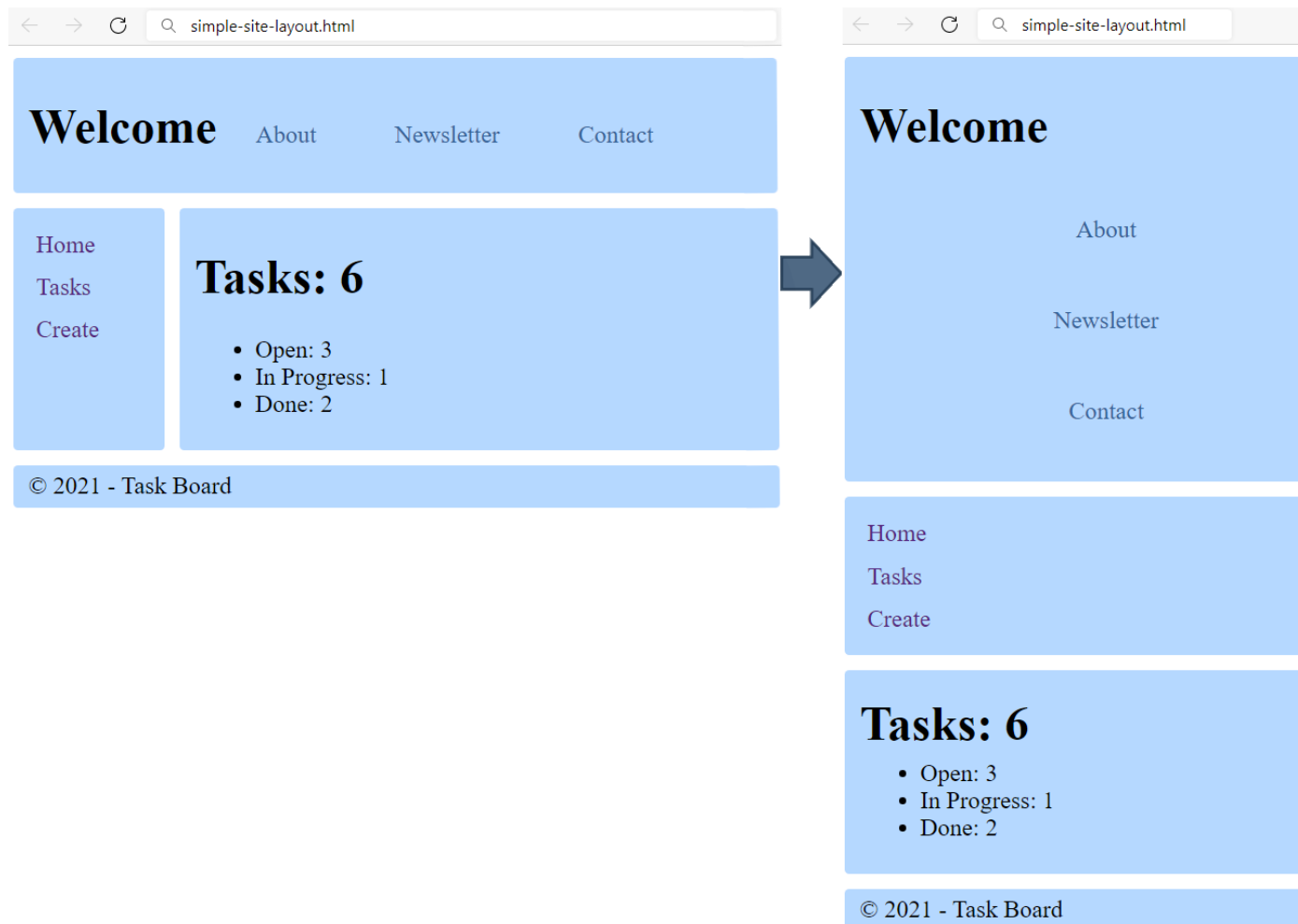
### Hints

```
@media (max-width: 500px) {  
  body {  
    display: grid;  
    grid-template-areas:  
      "header header"  
      "aside aside"  
      "main main"  
      "footer footer";  
  }  
}
```

## 2. Responsive Top Menu

Add to the previous solution **navigation** and make it **responsive** by using **media query**.

The behavior of the Web page should be like the following:



## Requirements

Add in the **header**:

- **<nav>** tag with:
  - **display: inline-block;**
  - **vertical-align: middle;**
  - **margin-top: 8px;**
    - **<ul>** tag for unordered list
      - **<li>** tag for list item
        - **list-style: none;**
        - **display: inline;**
        - **<a>** tag for hyperlink
          - **text-decoration: none;**
          - **color: rgb(53, 100, 153);;**
          - **padding: 5px 15px;**

Make the **navigation responsive** by using **media query**. Define a **maximum width** of **500px**, if the screen is less than that:

- the **<a>** tag in the **<nav>** need to be **displayed** as **block** and with **padding-left: 5px**

- the `<ul>` tag in the `<nav>` need to be left with **0 margin** and **padding**

Example for **bad behavior** and **wrong solution**:



### 3. Media Queries in Typography

Upgrade your **typograpy.css** file from previous homework's with Media Queries. Create the following page for different screen sizes:

Desktop:

## SITE TITLE

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### Heading level 1

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### Heading level 2

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Author Name

### Heading level 2



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- Laptop

# SITE TITLE

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Author Name

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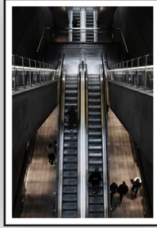
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- Tablet

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Author Name

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## Heading level 2



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- Phone



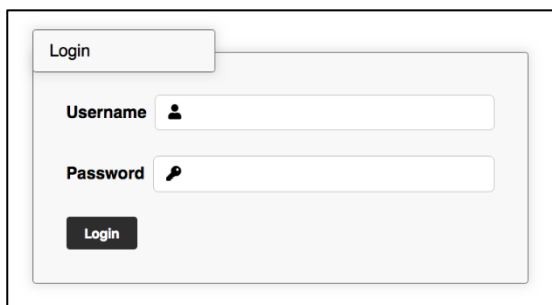
## Requirements

- Change the document title to "Media Queries in Typography"
- Make the font size for phones 12px
- Make the font size for screens larger than 500 14px
- Make the font size for screens larger than 600 16px
- Make the font size for screens larger than 800 18px
- Make the font size for screens larger than 1300 21px
- Make the font size for screens larger than 1800 23px



## 4. Responsive Forms

Create a web page like the following:

A login form with a title "Login" in a small box. Below it are two input fields: "Username" with a person icon and "Password" with a key icon. At the bottom is a "Login" button.

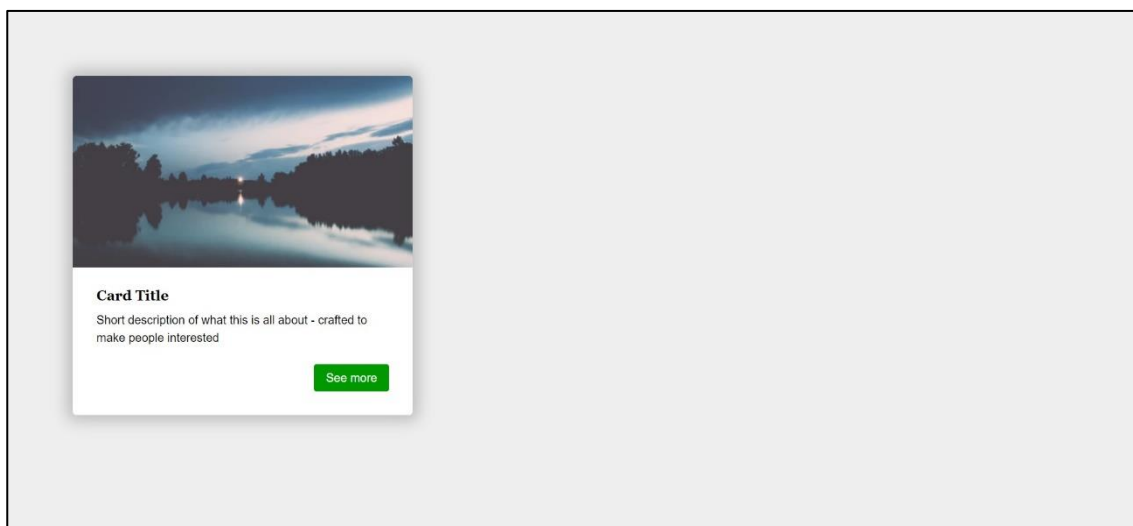
- Look at the provided screenshots in **resources folder** for different screen size's view

## Requirements

- Change the document title to "**Responsive Forms**"
- Create a simple login form using **semantic** html
  - Add icons to the input fields using **FontAwesome**
  - Add **focus** state that changes the **input** and the **icon**
  - User **form** and two **p** tags

## 5. Responsive Media Boxes

Create a web page like the following:



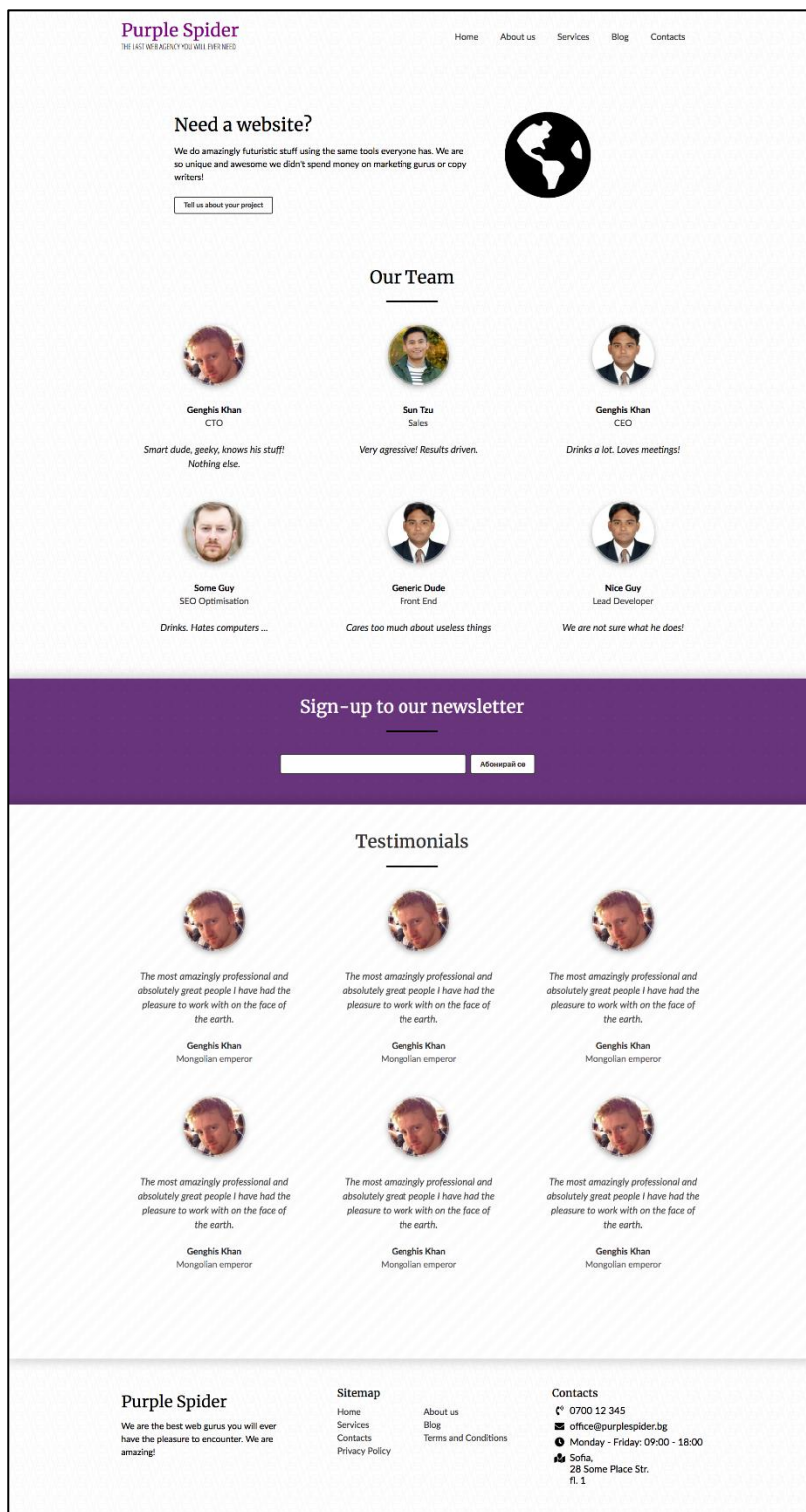
## Requirements

- Change the document title to "**Responsive Media Boxes**"
- Create a **section** with two **div** elements
- You can access the image [here](#)
- Use **rgb(238, 238, 238)** for body background
- Use **rgb(255, 255, 255)** for card background
- Use **rgb(0, 153, 0)** for card button background
- Use font **Georgia, serif** with size **1em/1.2** for the headings
- Use font **Helvetica, sans-serif** for the document



## 6. Landing Page

Create a web page like the following:



- Look at the provided screenshots in **resources folder** for different screen size's view

## Requirements

- Change the document title to "Landing Page"

- Get the latest **reset.css**
- Get the latest **typography.css**
- Get the latest **buttons.css**
- Get the latest **forms.css**
- Create a **section** with a title **Need a website?**
- Create a **section** with a title **Our Team**
- Create a **section** with a title **Sign-up to our Newsletter**
- Create a **section** with a title **Testimonials**
- Create a **footer**
- Make the page **responsive** per the screenshots attached

## 7. Responsive Tables

Create a web page like the following:

First Name	Last Name	Job Title
James	Matman	Chief Sandwich Eater
Jon	Doe	Chief Executive Eater

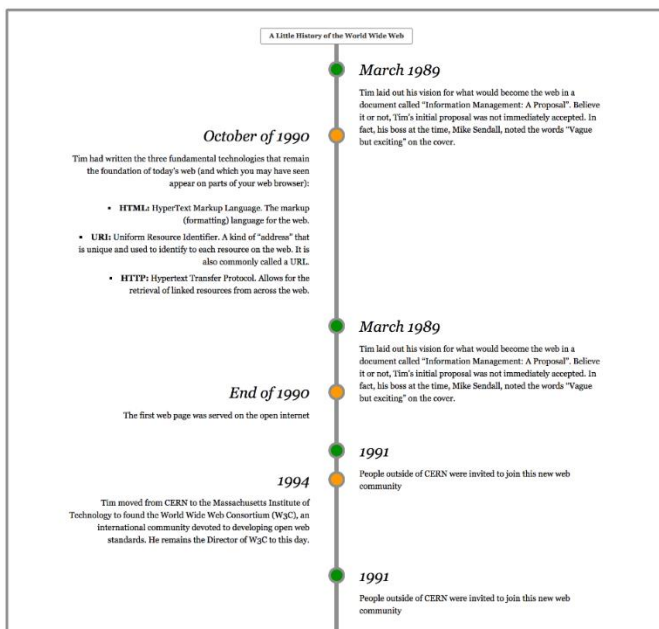
- Look at the provided screenshots in **resources folder** for different screen sizes view

## Requirements

- Change the document title to "**Responsive Tables**"
- Create a table with 3 columns: **First Name, Last Name, Job Title**
- Get the latest **reset.css**
- Get the latest **typography.css**
- Make the table **responsive**

## 8. Responsive Vertical Timeline

Create a web page like the following:



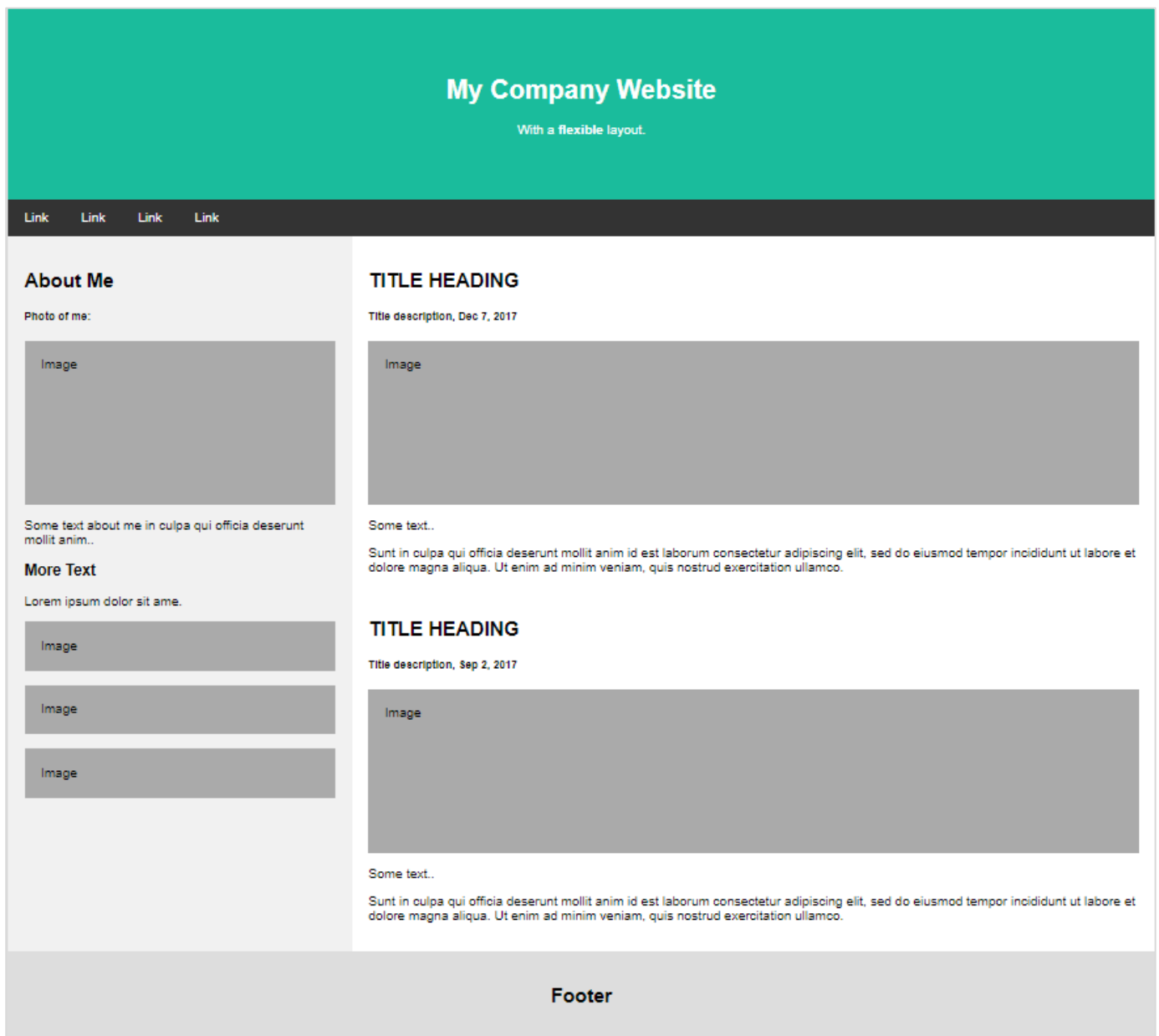
- Look at the provided screenshots in **resources folder** for different screen sizes view

## Requirements

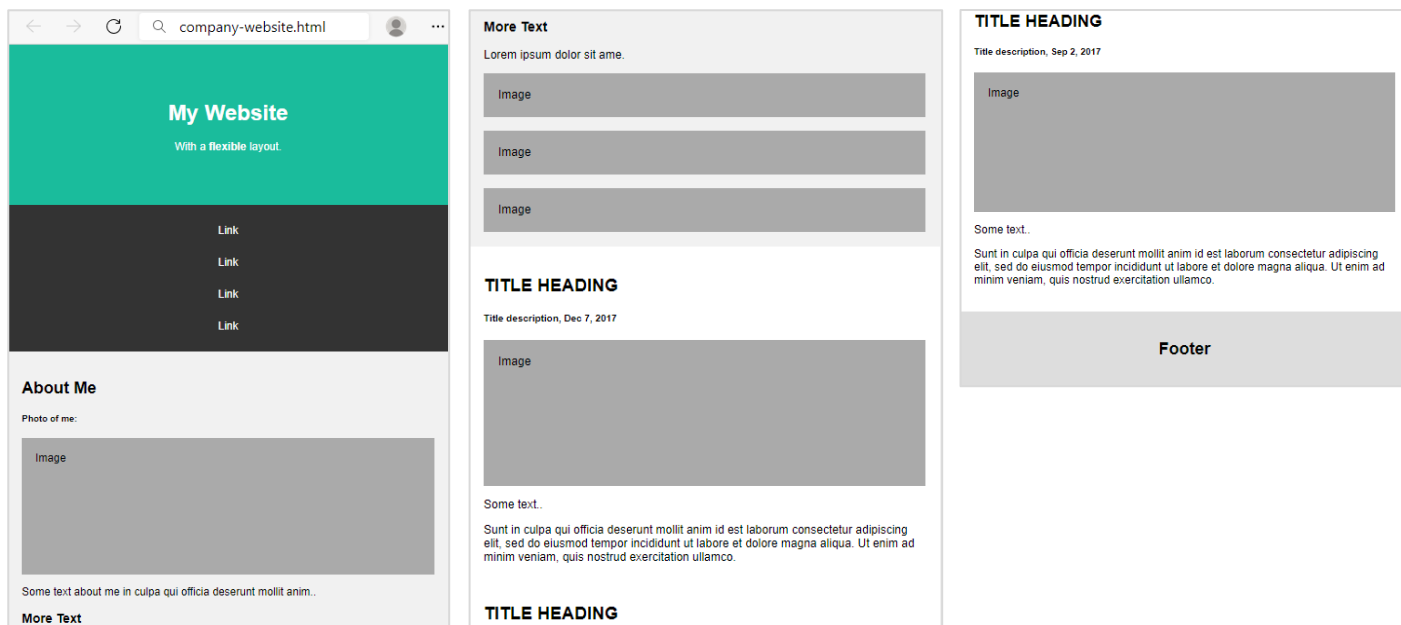
- Change the document title to "**Responsive Vertical Timeline**"
- Create a **section** with class **timeline**
  - The section must have
    - Border width - **0.3rem**
    - Border color - **rgb(153, 153, 153)**
    - Border style - **solid**
- Create seven articles (**article**) in the **section**
  - Divide **article content** into **header** and **section**
  - The header has **h3** heading and the **section** has a paragraph with text inside
  - Style **h3** font to **italic**
- Add **media queries** for the list to look good on **mobile** and **desktop**

## 9. Company Web Site

You are **given** a company web site as **HTML**. Using CSS grid, **write** the **missing styles**, to make the site look like this:



Ensure the site behaves correctly on small screens:



## Styles

- **body**
  - Margin: **0px**
  - Font family: **Arial**
- **header**
  - **Center** the text
  - Padding: **60px**
  - Margin: **0px**
  - Background color: **#1abc9c**
  - Text color: **white**
- **nav**
  - Background color: **#333**
  - Top and bottom padding: **14px** and **26px** from left and right
- **nav a**
  - Text color: **white**
  - Top and bottom padding **14px** and **20px** from left and right
  - Align the text to **left**
  - Remove the **text decoration**
- **aside**
  - Background color: **#f1f1f1**
  - Padding: **20px**
- **main**
  - Background color: **white**
  - Padding: **20px**
- **footer**
  - **Center** the text
  - Padding: **20px**
  - Background color: **#ddd**

## CSS Grid

Make the **body** grid container by **displaying** the **grid**.

- Define **two grid columns** and their size as ratio (**units**) **3:7**.
  - For the first column **3 units** and **7 units** for the second.
- Define the **grid areas**: **header**, **nav**, **aside**, **main**, **footer**.

Reference the **grid areas**:

- the **header** to take the entire row
- the **nav** to take the entire row
- the **aside** to be **3 units** at the **left side of its row**
- the **main** to be **7 units** at the **right side of its row**, next to the **aside**
- the **footer** to take the entire row

## CSS Media Queries

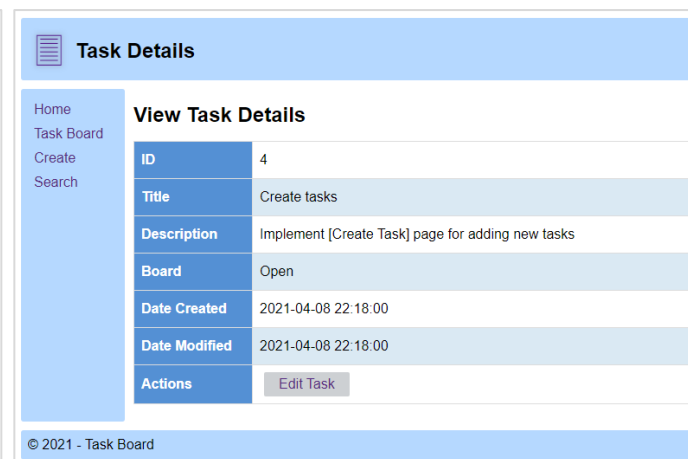
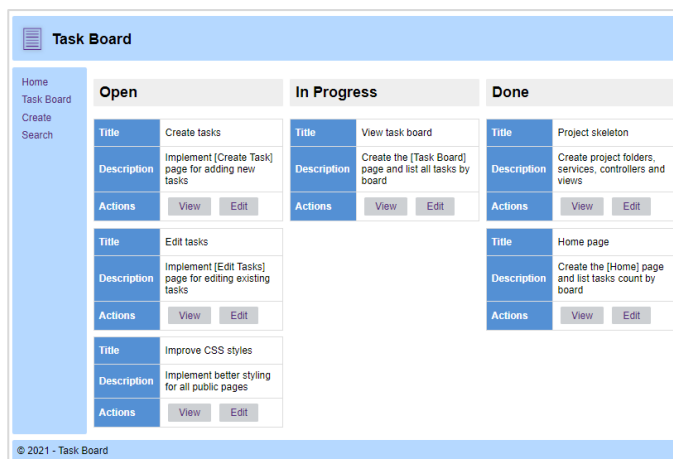
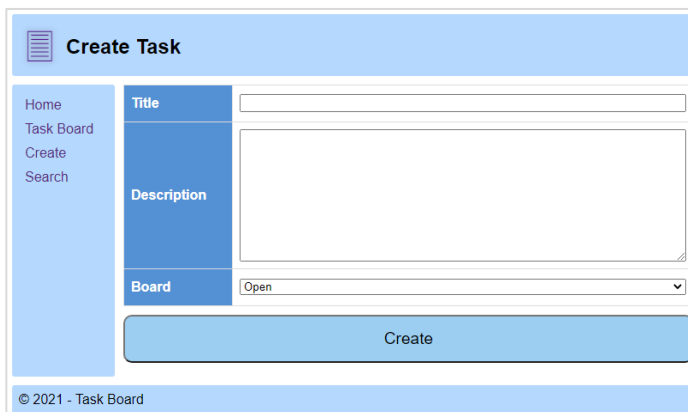
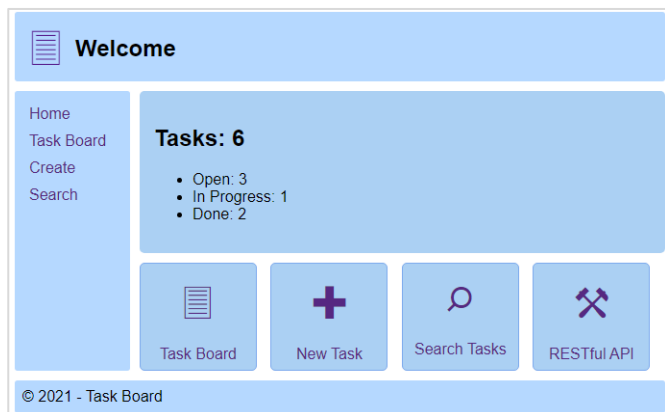
To make the layout responsive, you need **two media queries**.

The **first query** concerns the rearrangement of the body. If the screen is **smaller than 700px**, display the body as **block** and set the **areas one after another, in that order: header, nav, aside, main, footer**.

The second query concerns the style of the navigation bar. If the screen is smaller than **700px**, display the **<a>** tag in the **nav tag** as block and center the text.

## 10. Task Board Web Site

In these exercises we shall build a **complete responsive Web site layouts** for a task board app, which looks like this:



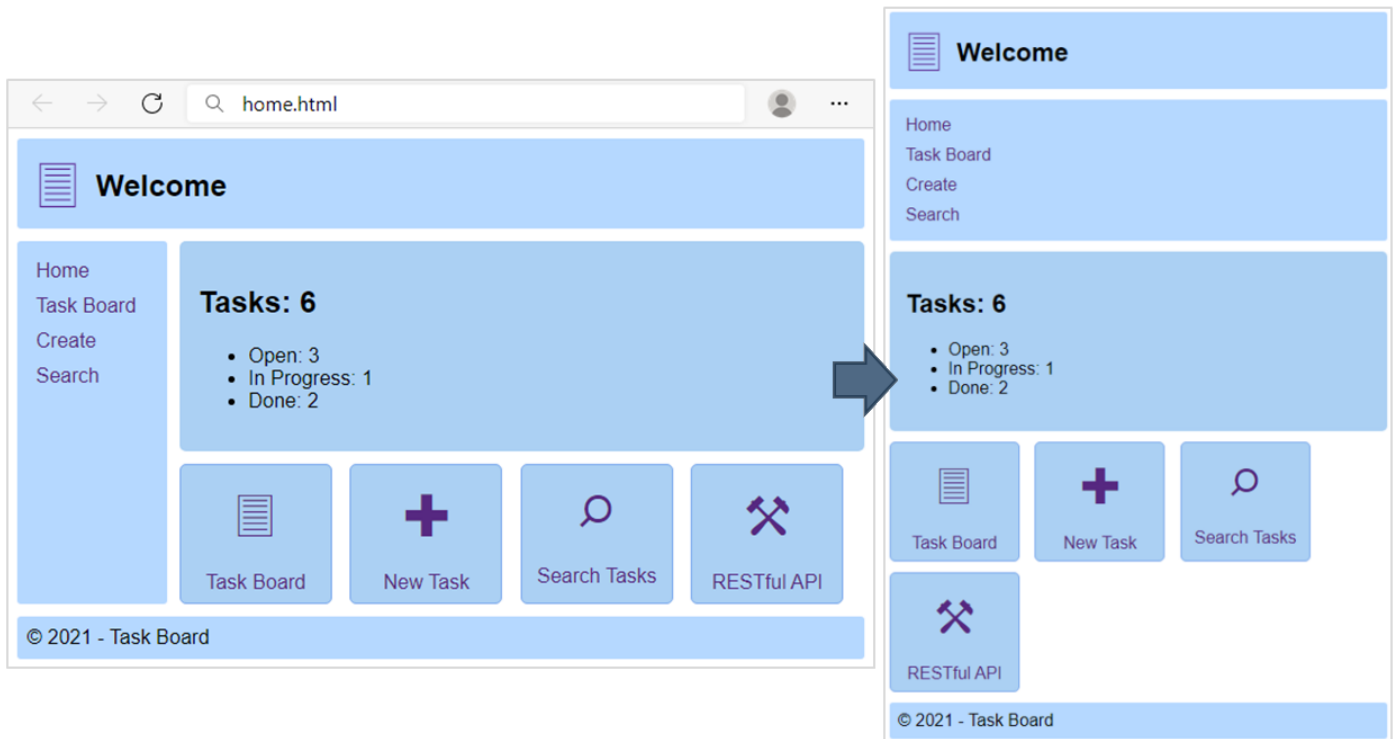
You can browse the app **source code** and play with the app at: <https://repl.it/@nakov/taskboard>.

## a. Task Board – "Home" Page

You will be given a **skeleton** with an **empty HTML** and **CSS** with styles. Your tasks are:


- create a **semantic HTML** in the empty file
- create a valid **CSS grid layout**
- make the **layout responsive** by using **media queries**





Using the layout, build the following home page:



Use the texts from the file **site-texts.txt**.

## HTML Constraints

- Create **body** that contains: **header, aside, main, footer**.
- **header** that contains:
  - a tag with this **icon**: 
  - **h1** tag with text
- **aside** that contains:
  - **ul** tag for unordered list
    - **li** tag for list item
      - a tag for hyperlink
- **main** tag that contains:
  - **section** tag with:
    - **h1** tag for the sum of the tasks
    - **ul** tag with:
      - **li** for the tasks with their status
  - **div** tag with the following **a** tags for each icon:
    - a tag that contains:

- **span** tag with this **icon**: 
  - **p** tag with text “Task Board”
- **a** tag that contains:
  - **span** tag with this **icon**: 
  - **p** tag with text “New Task”
- **a** tag that contains:
  - **span** tag with this **icon**: 
  - **p** tag with text “Search Tasks”
- **a** tag that contains:
  - **span** tag with this **icon**: 
  - **p** tag with text “RESTful API”
- **footer** that contains:
  - **div** tag with text © 2021 - Task Board

## CSS Grid

In this task we will define two grid containers: for the page **body** and for the **header** in the body.

### CSS Grid for the Page Body

Make the **body** grid container by **displaying** the **grid**.

- Define **two grid columns** and their size.
  - For the first column **120px** and **auto** for the second.
- Define the **grid areas**: **header**, **aside**, **main**, **footer**.
- Add **gap** between the rows and columns in the grid **10px**.

Reference the **grid areas**:

- **header** to take the entire row
- **aside** and **main** to be next to each other
- the **footer** to take the entire row

### CSS Grid for the Header

Make the **header in the body** to be a **grid** container.

- Define **two grid columns** and their size.
  - For the first column **60px** and **auto** for the second.
- Define the **grid areas**: **logo** and **header-text**.
- Reference the **grid areas**:
  - **logo** and **header-text** next to each other

## CSS Media Queries

Write a **media query** that rearranges the HTML areas in the **body** vertically one after another when the screen size is **below 500px**. Use the **grid template areas** for this purpose.

## Hints

You can use the following **grid container** and **grid area** definitions for your page layout:



```
body {
  display: grid;
  grid-template-areas:
    "header header header"
    "aside main main"
    "footer footer footer";
  grid-template-columns: 1fr 2fr 1fr;
  gap: 10px;
}

header {grid-area: header;}
aside {grid-area: aside;}
main {grid-area: main;}
footer {grid-area: footer;}

body header {
  display: grid;
  grid-template-areas:
    "logo header-text"
    "header-text header-text";
  grid-template-columns: 1fr 1fr;
}

body header a {grid-area: logo;}
body header h1 {grid-area: header-text;}
```

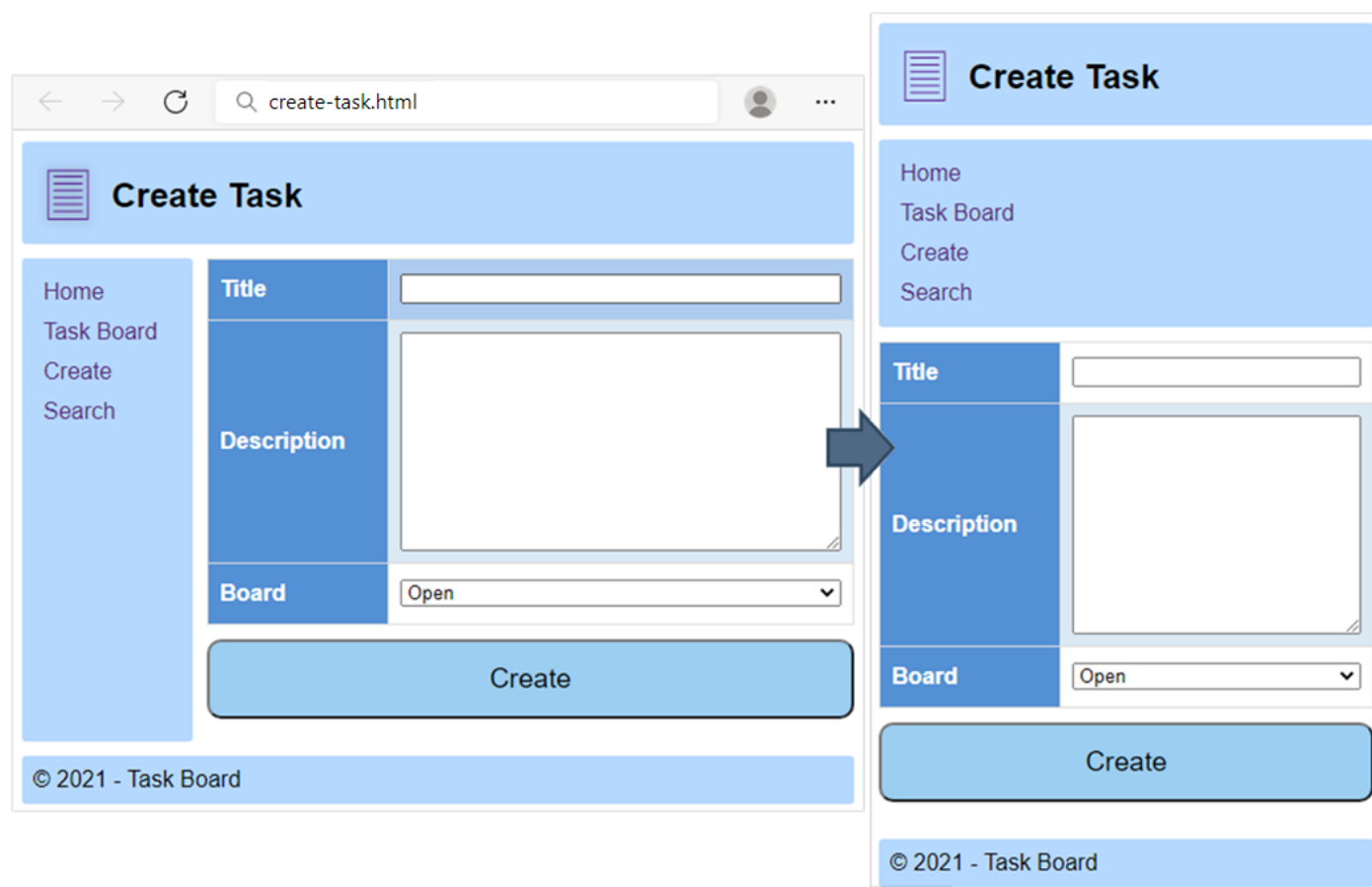
At smaller screens, you can change the **grid-template areas** (using media queries).

## b. Task Board – "Create Task" Page

You will be given a **skeleton** with an **empty HTML** and **CSS** with styles. Your tasks are:

- create a **semantic HTML** in the empty file
- create a valid **CSS grid layout**
- make the **layout responsive** by using **media queries**

Using the layout, build the following page:



Use the texts from the file **site-texts.txt**.

## HTML Constraints

Like in the previous problem, create **body** that contains:

- **header, aside, main, footer**

The elements into the **body**:

- **header**: the same like in the previous problem
- **aside**: the same like in the previous problem
- **main** that contains:
  - **form** with **table** and **button**:
    - **table** with:
      - **tbody** tag with following rows:
        - **tr** with **class="title"** that contains:
          - **th** for the title
          - **td** with:
            - **input** field
        - **tr** with **class="description"** that contains:
          - **th** for the title
          - **td** with:
            - **textarea** with 10 rows
        - **tr** with **class="board"** that contains:
          - **th** for the title
          - **td** with:
            - **select** and **options**: Open, In Progress, Done
      - **button** with type for submit
  - **footer**: the same like in the previous problem

## CSS Grid

Like in the previous problem, define two grid containers: for the page **body** and for the **header** in the body. Define the grid areas and other grid setting to display the layout correctly.

## CSS Media Queries

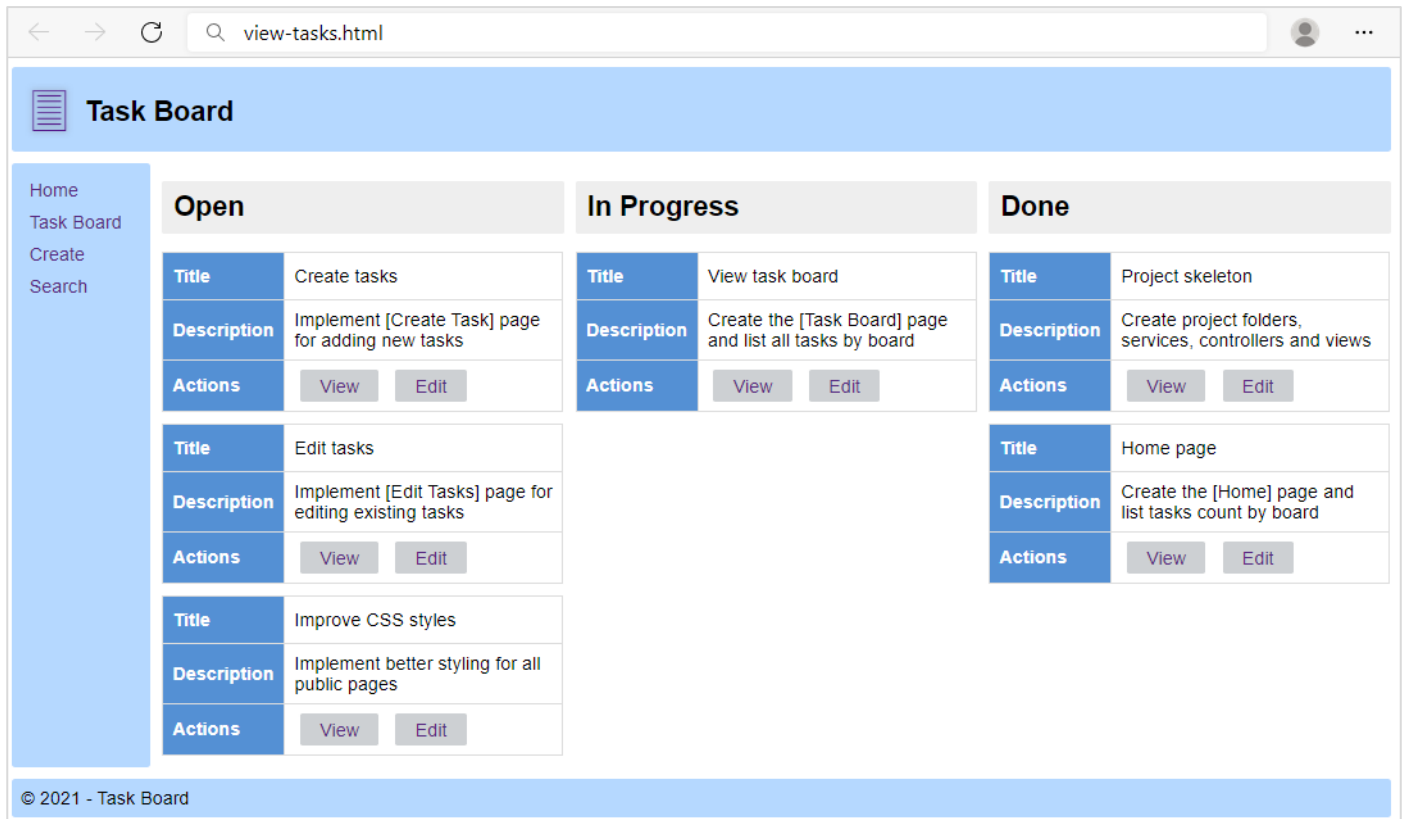
Like in the previous problem, write a **media query** that rearranges the grid areas in the **body** one after another when the screen size is **below 500px**.

## c. Task Board – "View Tasks" Page

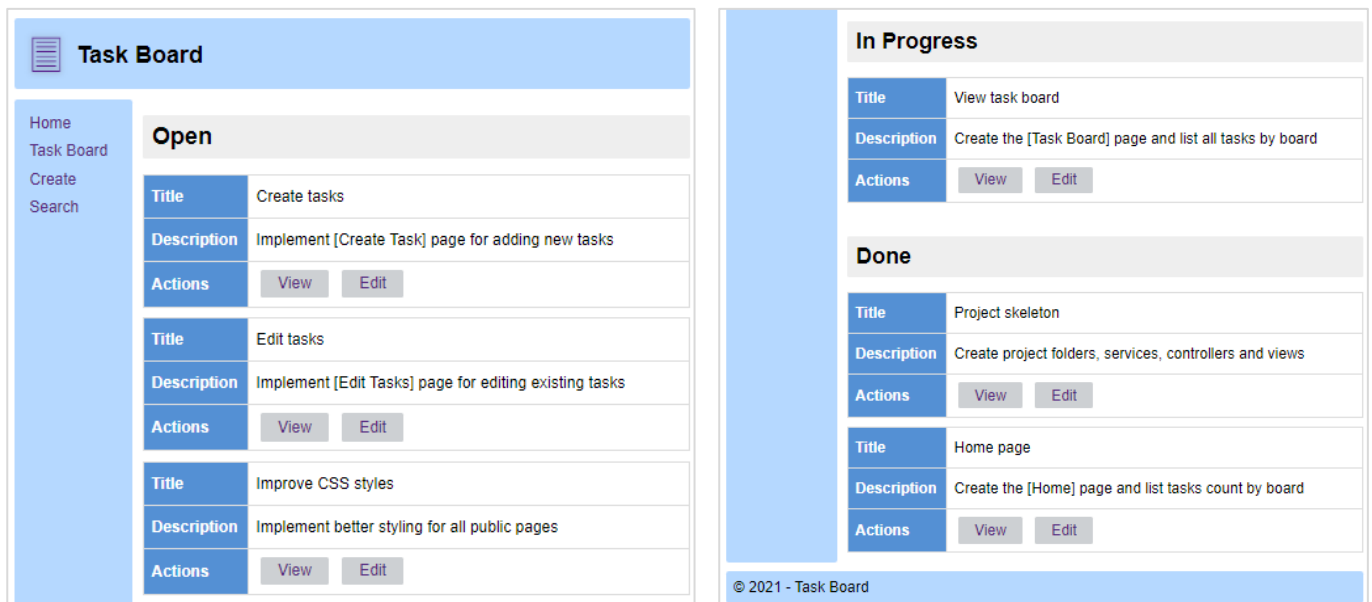
You will be given a **skeleton** with an **empty HTML** and **CSS** with styles. Your tasks are:

- create a **semantic HTML** in the empty file
- create a valid **CSS grid layout**
- make the **layout responsive** by using **media queries**

Using the layout, build the following page:



Ensure the site behaves correctly on small screens:



Use the texts from the file **site-texts.txt**.

## HTML Constraints

Like in the previous problem, create **body** that contains:

- **header**, **aside**, **main**, **footer**

The elements into the **body**:

- **header**: the same like in the previous problem
- **aside**: the same like in the previous problem
- **main** contains:

- **div** with **class="tasks-grid"**, which will serve as a **grid container**. It contains three **sections** arranged in columns (Open, In Progress, Done).
  - each **section** contains **class="task-board"** and:
    - **h1** with one of the texts: Open, In Progress or Done
    - **article** for each **table** in the column:
      - **table** with:
        - **tbody** tag with following rows:
          - **tr** that contains:
            - **th** with text: **Title**
            - **td** for the name of the task
          - **tr** that contains:
            - **th** with text: **Description**
            - **td** with the description:
          - **tr** for the actions and buttons:
            - **th** with text: **Actions**
            - **td** with two buttons
              - button for the **View**
              - button for the **Edit**
    - You need to **write 6 articles** with **table**. Three for **Open**, one for **In Progress** and two for **Done**.
  - **footer**: the same like in the previous problem

## CSS Grid

In this task we will have 3 grid containers: **body**, the **header** in the body and the **div tasks-grid** in the body.

- The **body grid container** will be the same like in the previous problem.
- The **header grid container** will be the same like in the previous problem.
- Make the **div** tag with **class="tasks-grid"** grid container by **displaying** the **grid**. You can select it like this: **section.tasks-grid {/\* TODO \*/}**. Define **three grid columns** and set their size to be three **equal ratios (units)**. Add gap **10px**.

## CSS Media Queries

Like in the previous problem, write a **media query** that rearranges the grid areas in the **body** one after another when the screen size is **below 500px**.

Write a **media query** that rearranges the grid areas in the **div container "tasks-grid"**, so that the boards with tasks to stay vertically one after another. Just use **one single grid column**, instead of 3 grid columns. Since we did not make references of grid areas, you can rearrange the tables by setting **new values** to the grid **template columns** CSS styling rules.

## Hints

This is how part of the HTML structure should look like:

```

<html>
  <head>...</head>
  <body>
    <header>...</header>
    <aside>...</aside>
    <main>
      <div class="tasks-grid">
        <section class="task-board">...</section>
        <section class="task-board">...</section>
        <section class="task-board">...</section>
      </div>
    </main>
    <footer>...</footer>
  </body>
</html>

```

## d. Task Board – "Task Details" Page

You will be given a **skeleton** with an **empty HTML** and **CSS** with styles. Your tasks are:

- create a **semantic HTML** in the empty file
- create a valid **CSS grid layout**
- make the **layout responsive** by using **media queries**

Using the layout, build the following page:

The browser window shows the 'Task Details' page with a sidebar on the left containing links: Home, Task Board, Create, and Search. The main content area is titled 'View Task Details' and contains a table with the following data:

ID	4
Title	Create tasks
Description	Implement [Create Task] page for adding new tasks
Board	Open
Date Created	2021-04-08 22:18:00
Date Modified	2021-04-08 22:18:00
Actions	<button>Edit Task</button>

The footer of the browser window shows '© 2021 - Task Board'.

The design mockup shows a desktop layout with a top navigation bar containing links: Home, Task Board, Create, and Search. The main content area is titled 'View Task Details' and contains a table with the following data:

ID	4
Title	Create tasks
Description	Implement [Create Task] page for adding new tasks
Board	Open
Date Created	2021-04-08 22:18:00
Date Modified	2021-04-08 22:18:00
Actions	<button>Edit Task</button>

The footer of the design mockup shows '© 2021 - Task Board'.

Use the texts from the file **site-texts.txt**.

## HTML Constraints

Like in the previous problem, create **body** that contains:

- **header, aside, main, footer**

The elements into the **body**:

- **header**: the same like in the previous problem
- **aside**: the same like in the previous problem
- **main** that contains:
  - **h1** tag for the title
  - **table** tag with:
    - **tbody** tag with following rows:
      - **tr** for the ID row, with:
        - **th** as label
        - **td** with the ID
      - **tr** for the Title row, with:
        - **th** as label
        - **td** with the title
      - **tr** for the Description row, with:
        - **th** as label
        - **td** with the description
      - **tr** for the Board row, with:
        - **th** as label
        - **td** with the board status
      - **tr** for the Date Created row, with:
        - **th** as label
        - **td** with the date
      - **tr** for the Date Modified row, with:
        - **th** as label
        - **td** with the date
      - **tr** for the Actions row, with:
        - **th** as label
        - **td** with:
          - **button** for Edit Task
- **footer**: the same like in the previous problem

## CSS Grid

Like in the previous problem, define two grid containers: for the page **body** and for the **header** in the body. Define the grid areas and other grid setting to display the layout correctly.

## CSS Media Queries

Like in the previous problem, write a **media query** that rearranges the grid areas in the **body** one after another when the screen size is **below 500px**.

Write an additional **media query** that when the screen size is **below 500px** arranges the **text** of the **navigation links** from the **aside** area in the middle, makes the text **bold** and gives it the following **color: rgb(44, 76, 114)**.