

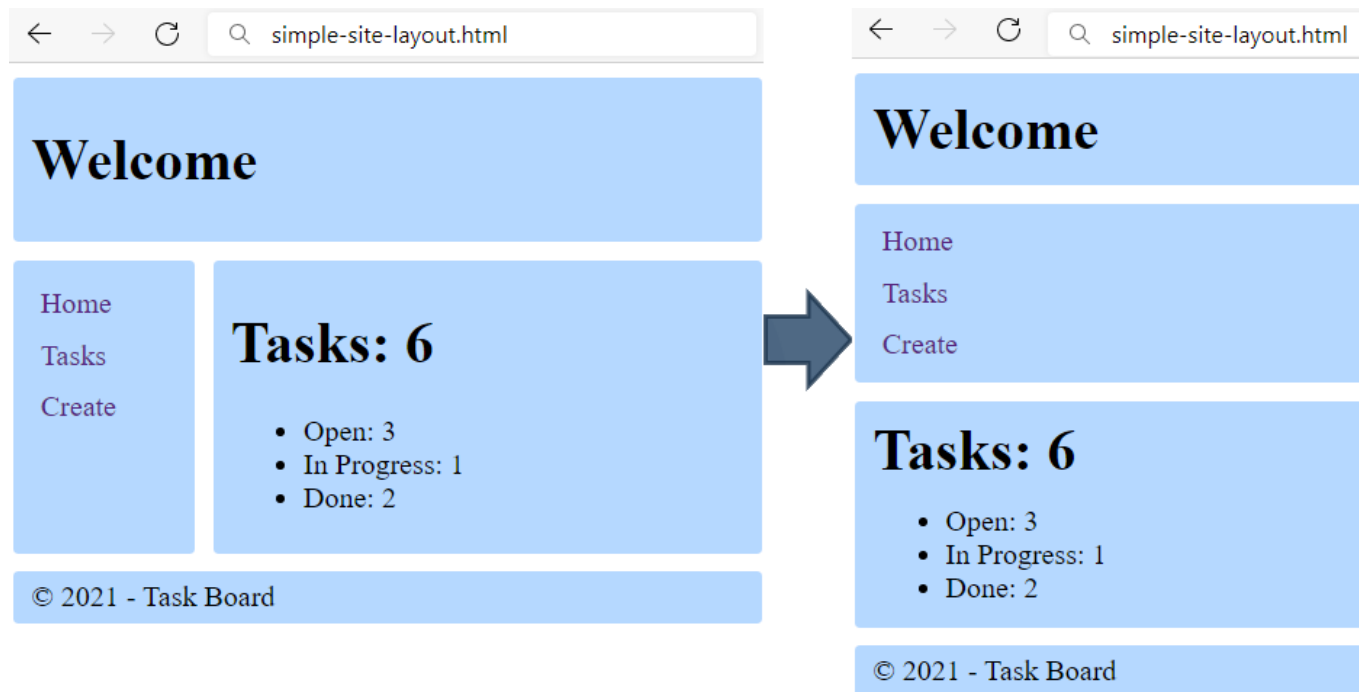
Exercise: Media Queries

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**

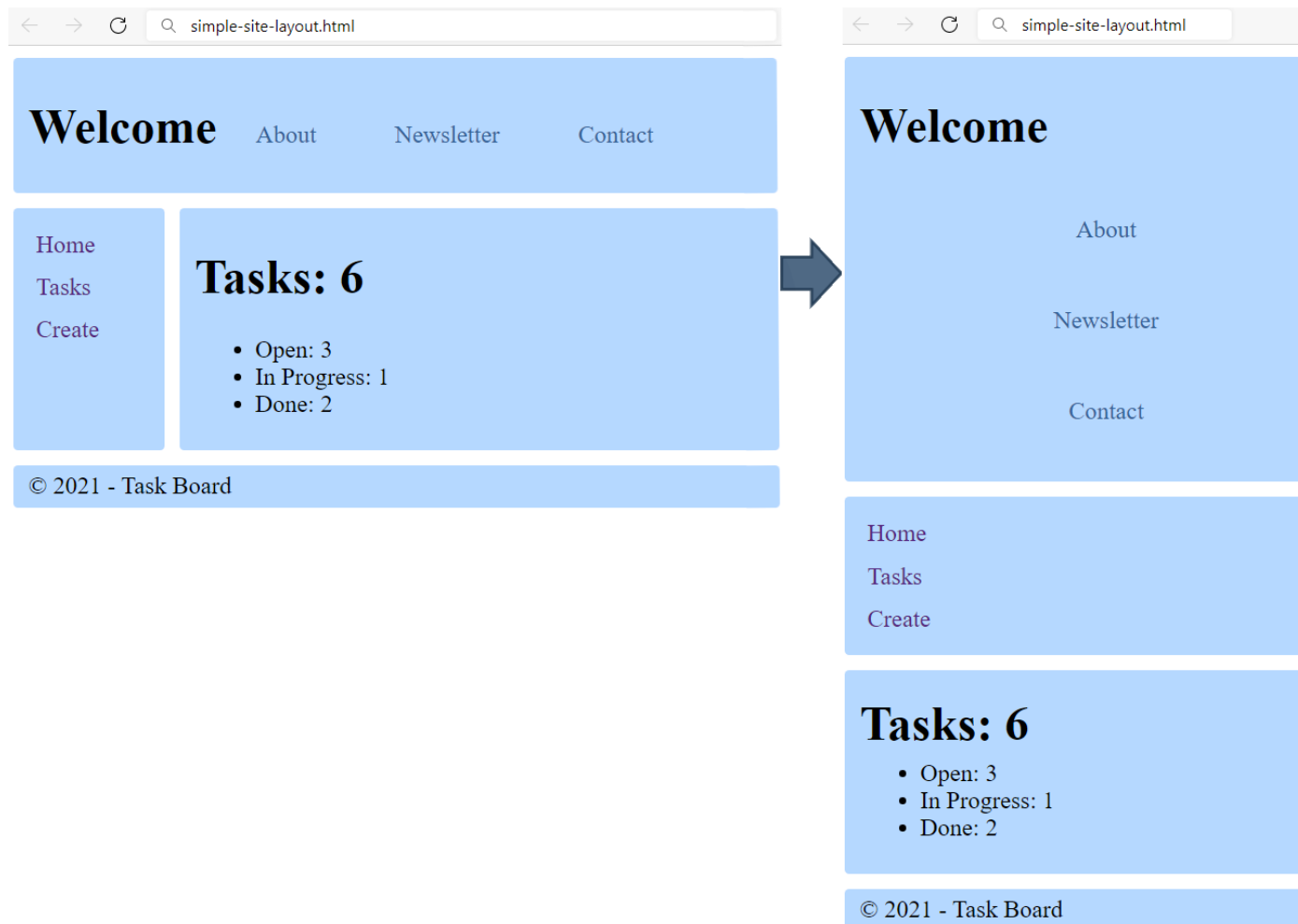
Hints

```
@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**:

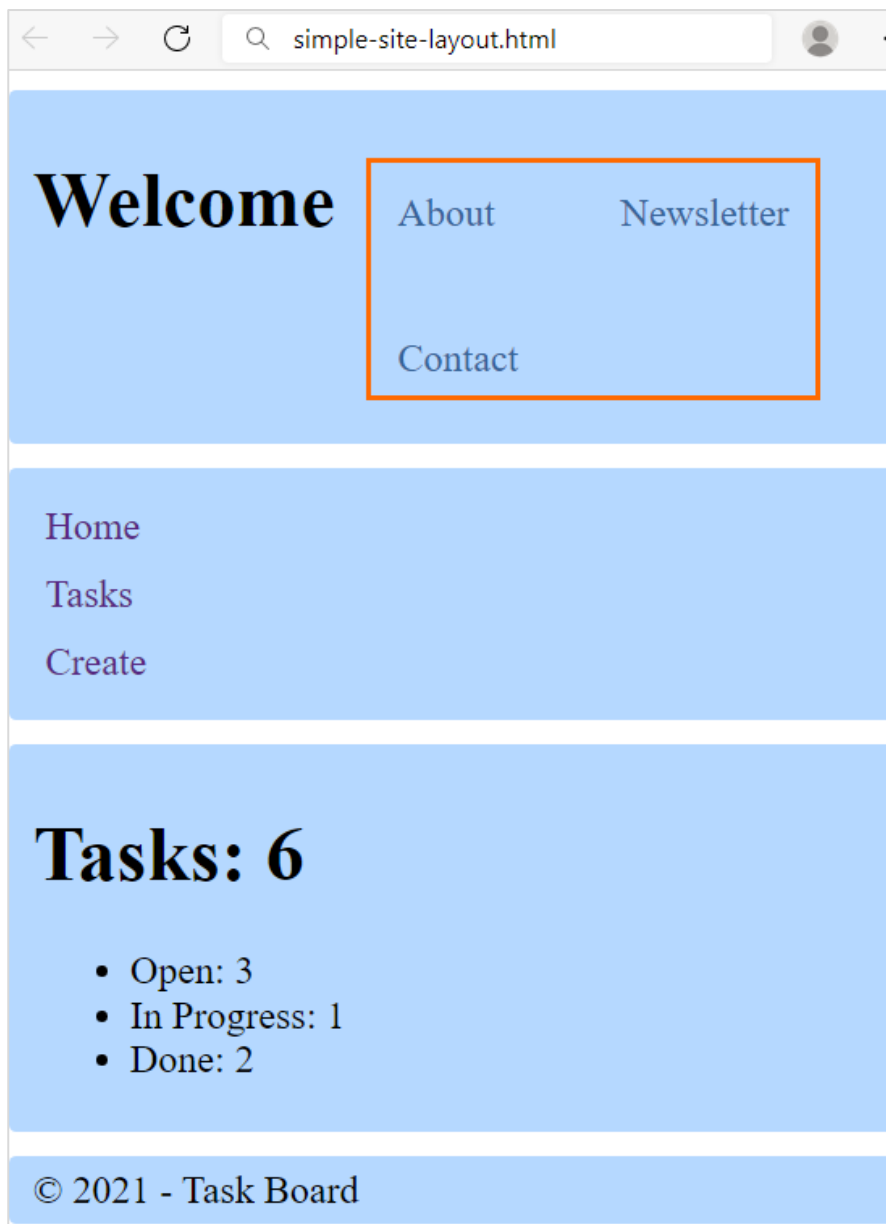
- **<nav>** tag with:
 - **display: inline-block;**
 - **vertical-align: middle;**
 - **margin-top: 8px;**
 - **** tag for unordered list
 - **** tag for list item
 - **list-style: none;**
 - **display: inline;**
 - **<a>** tag for hyperlink
 - **text-decoration: none;**
 - **color: rgb(53, 100, 153);;**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

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

Heading level 1

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Author Name

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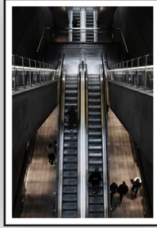
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- Tablet

SITE TITLE

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Proin sit amet est vitae mi porttitor rhoncus sed nec neque. Praesent metus quam, sagittis eu mauris a, pellentesque suscipit justo. In varius tortor a ante feugiat, quis finibus magna blandit.

Author Name

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Heading level 2



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Maecenas eleifend sapien felis, quis interdum ex tempor a. Aenean sodales, eros ac fermentum elementum, enim nisi finibus nisi, sed tempus turpis mauris ac quam. Aenean ac leo vel ante sollicitudin consequat in ut augue. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Duis sodales odio diam. Phasellus ultricies faucibus massa sit amet pharetra.

- Phone

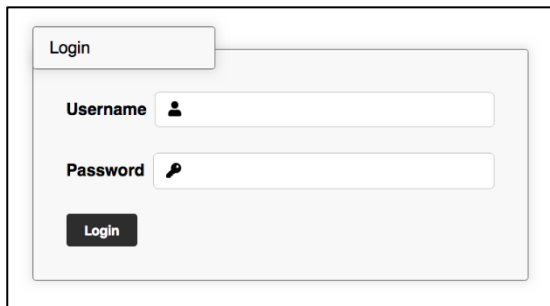


Requirements

- 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 light gray box. Below the title are two input fields: "Username" with a person icon and "Password" with a key icon. At the bottom is a dark gray "Login" button.

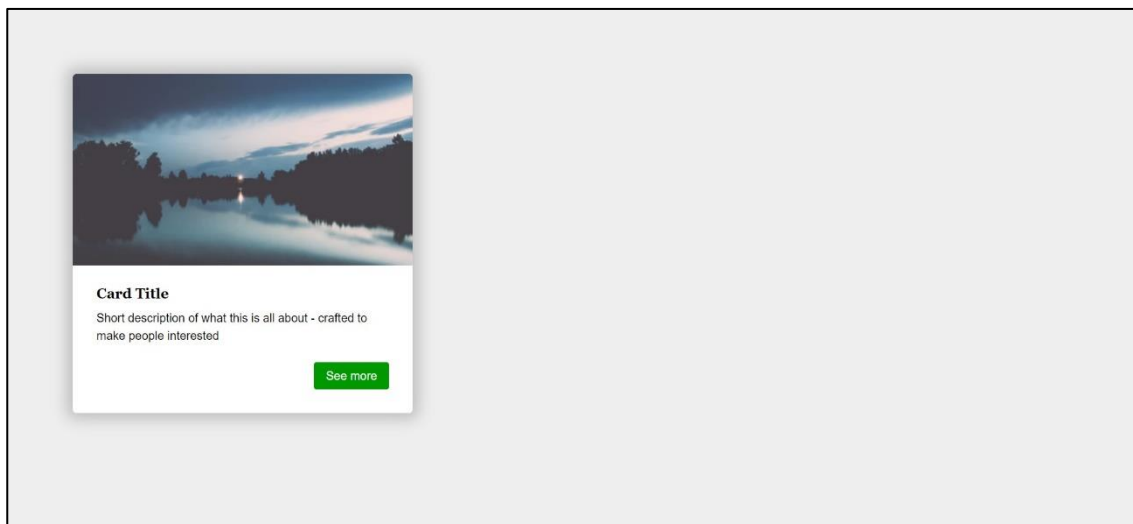
- Look at the provided screenshots in **resources folder** for different screen size's view

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:

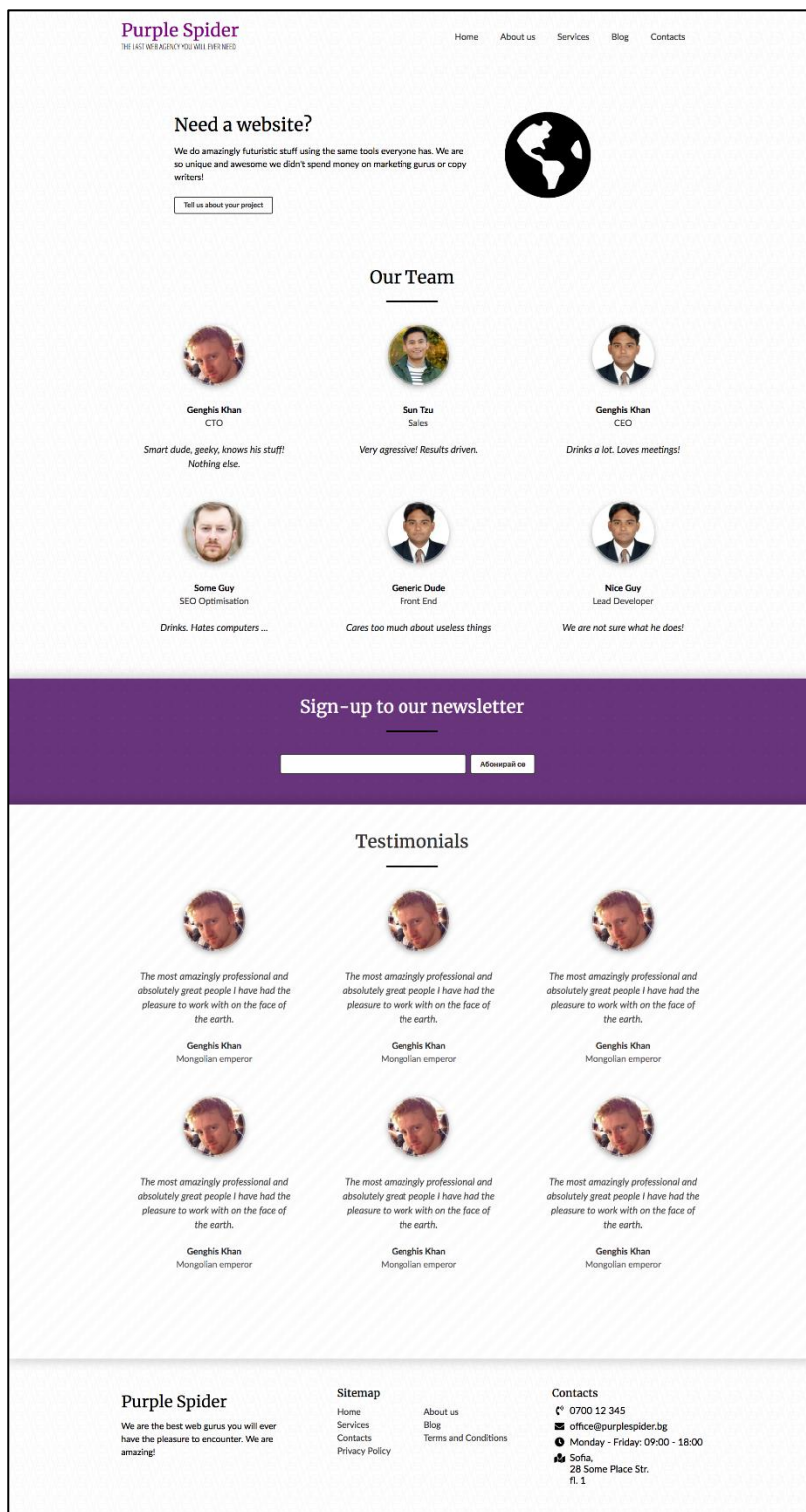


Requirements

- 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:



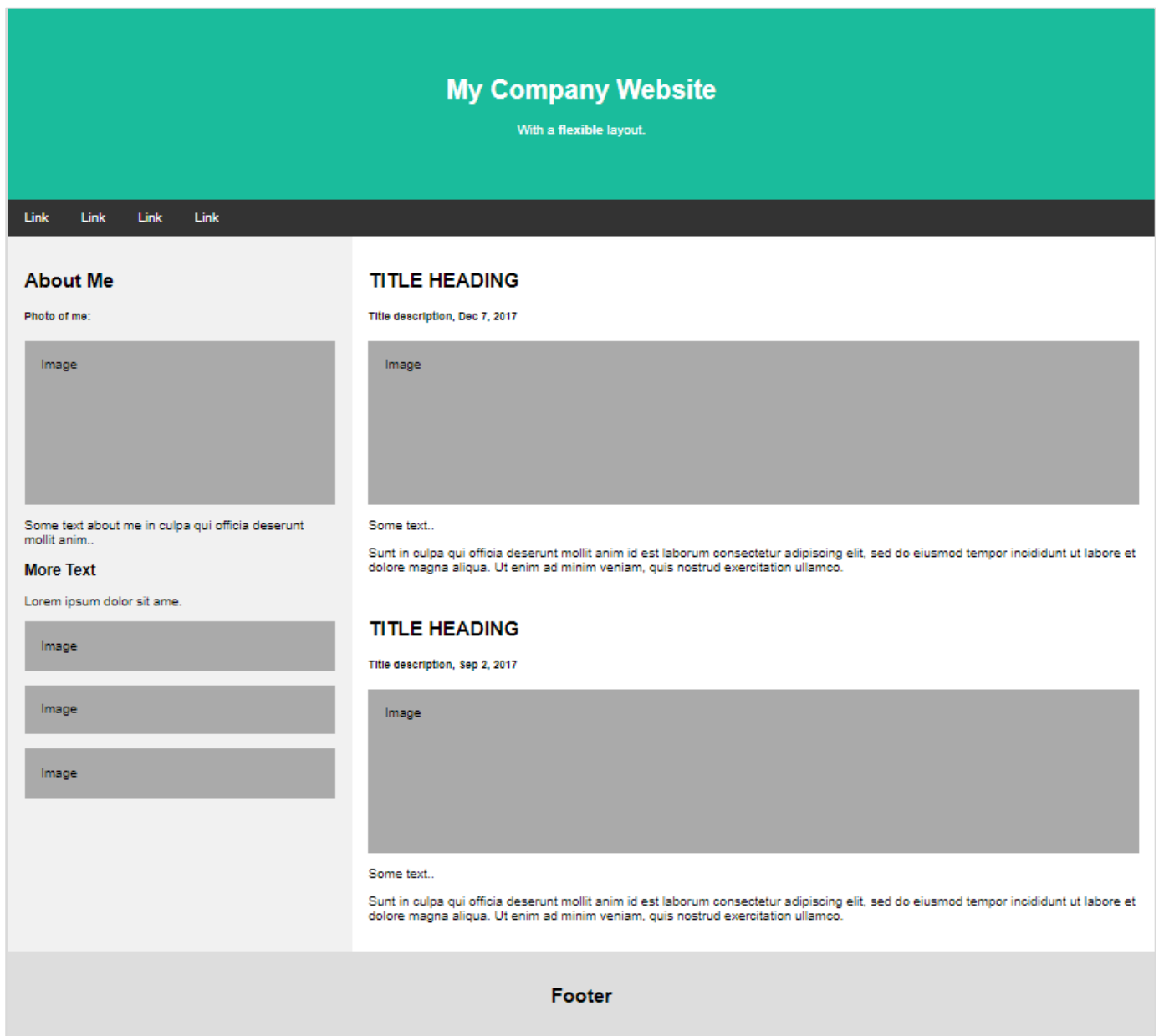
- Look at the provided screenshots in **resources folder** for different screen sizes view

Requirements

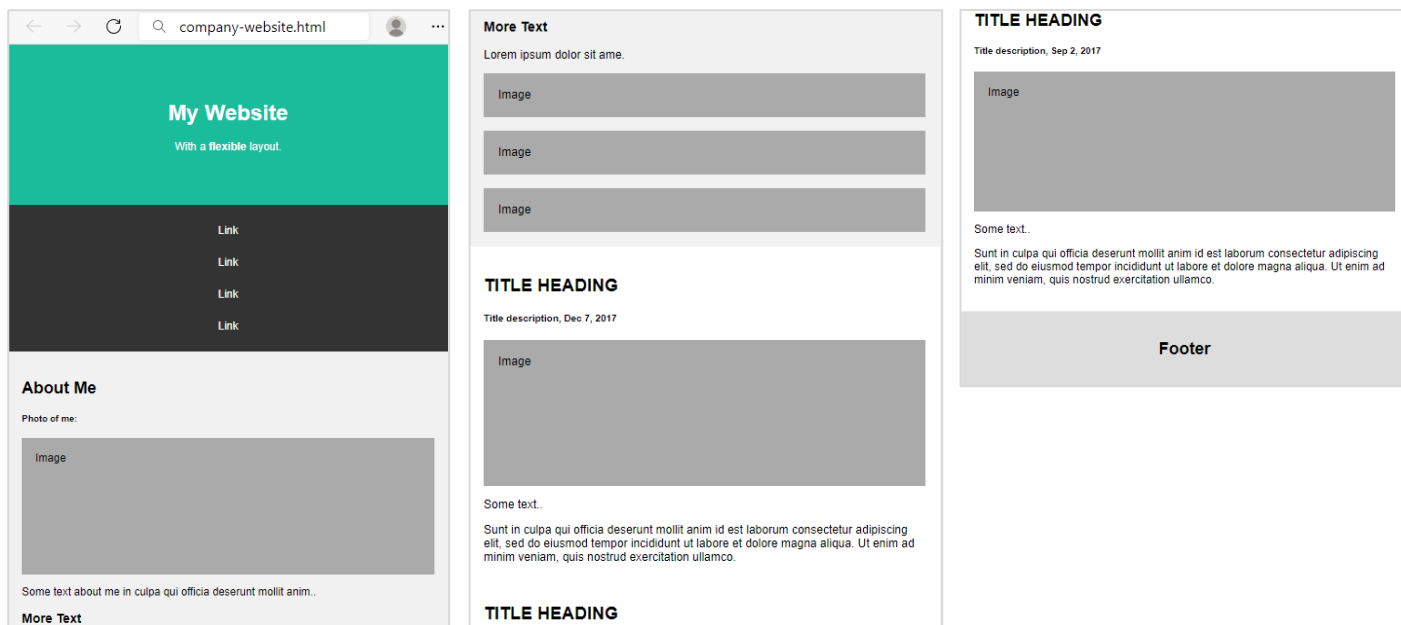
- Change the document title to "**Responsive Vertical Timeline**"
- Create a **section** with class **timeline**
 - The section must have
 - Border width - **0.3rem**
 - Border color - **rgb(153, 153, 153)**
 - Border style - **solid**
- Create seven articles (**article**) in the **section**
 - Divide **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

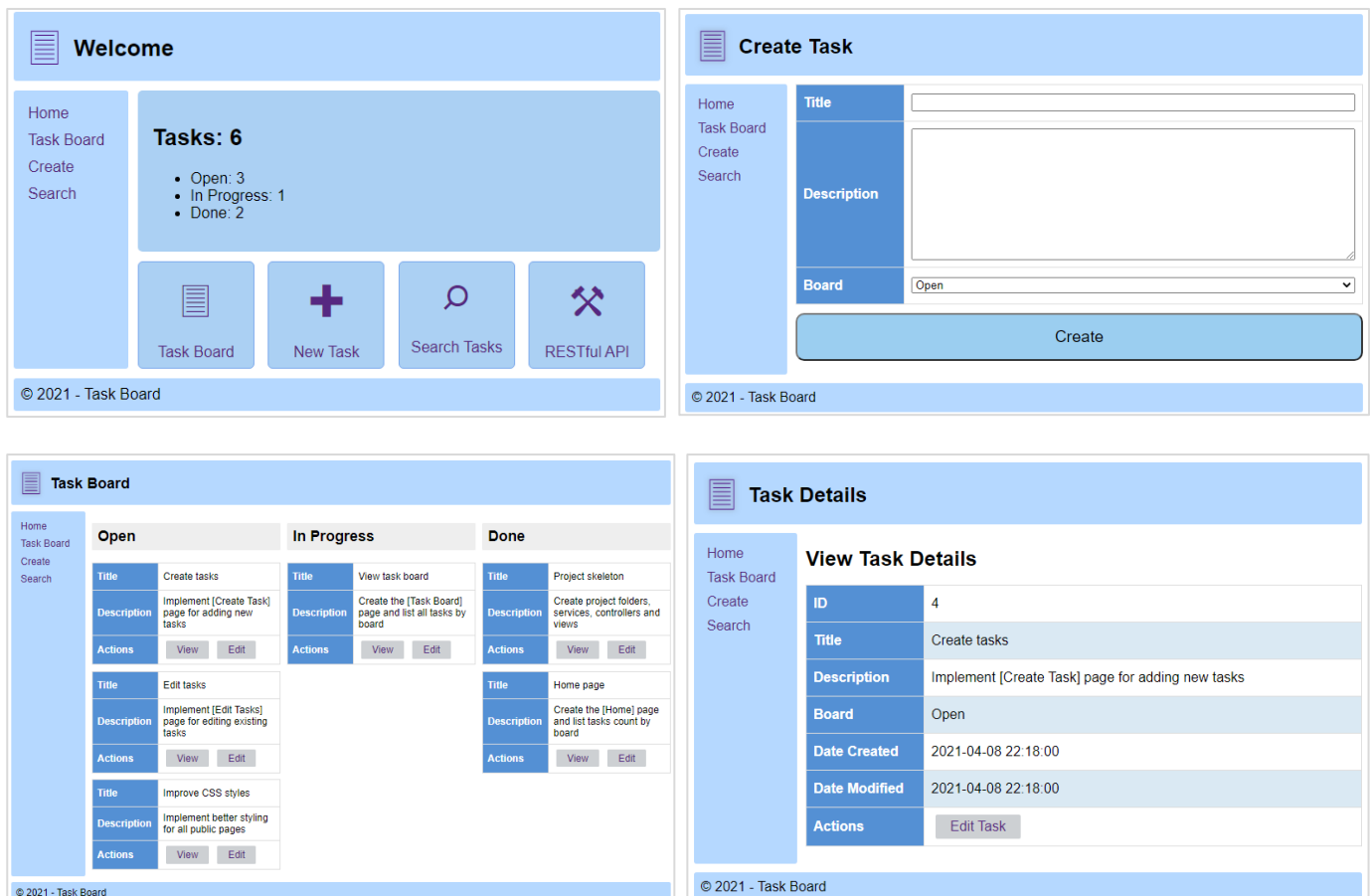
To make the layout responsive, you need **two media queries**.

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:



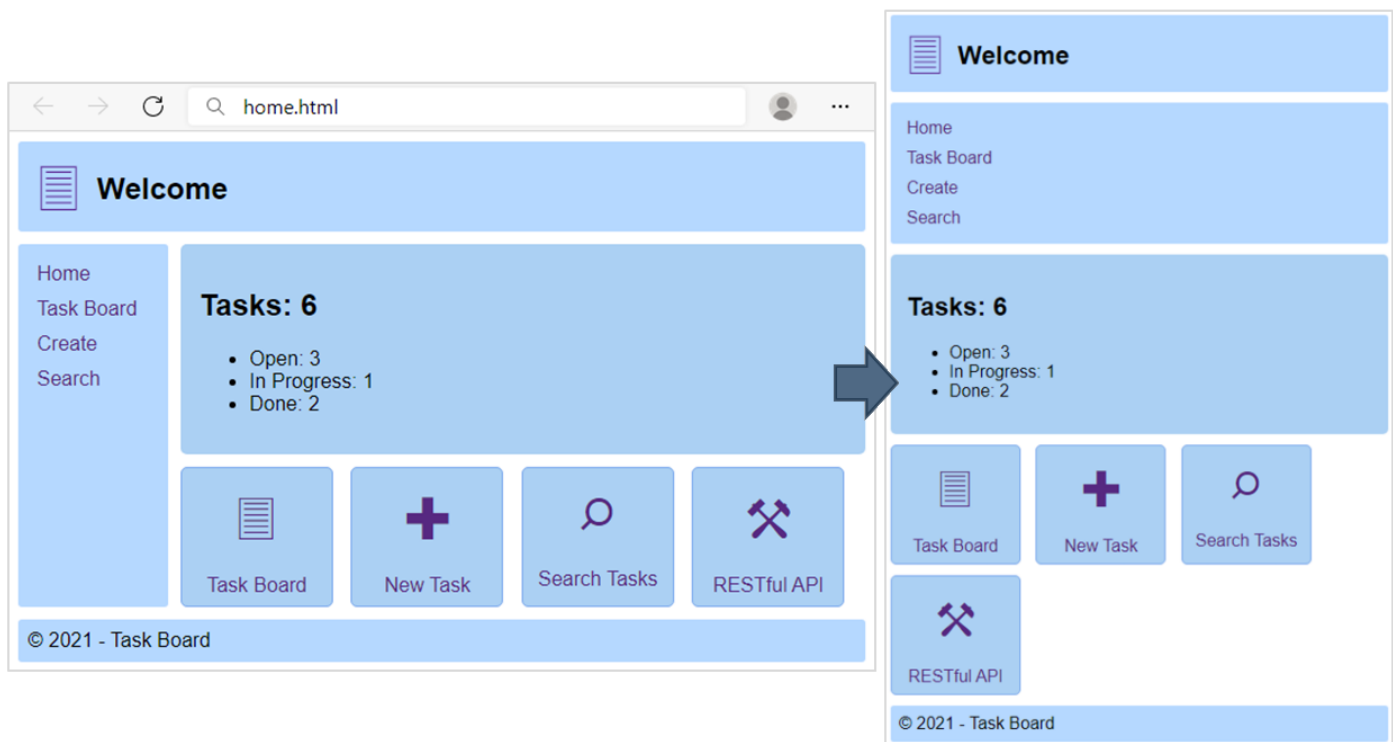
You can browse the app **source code** and play with the app at: <https://repl.it/@nakov/taskboard>.

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:

  grid-template-columns: 1fr 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";
  grid-template-columns: 1fr 1fr;
}

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

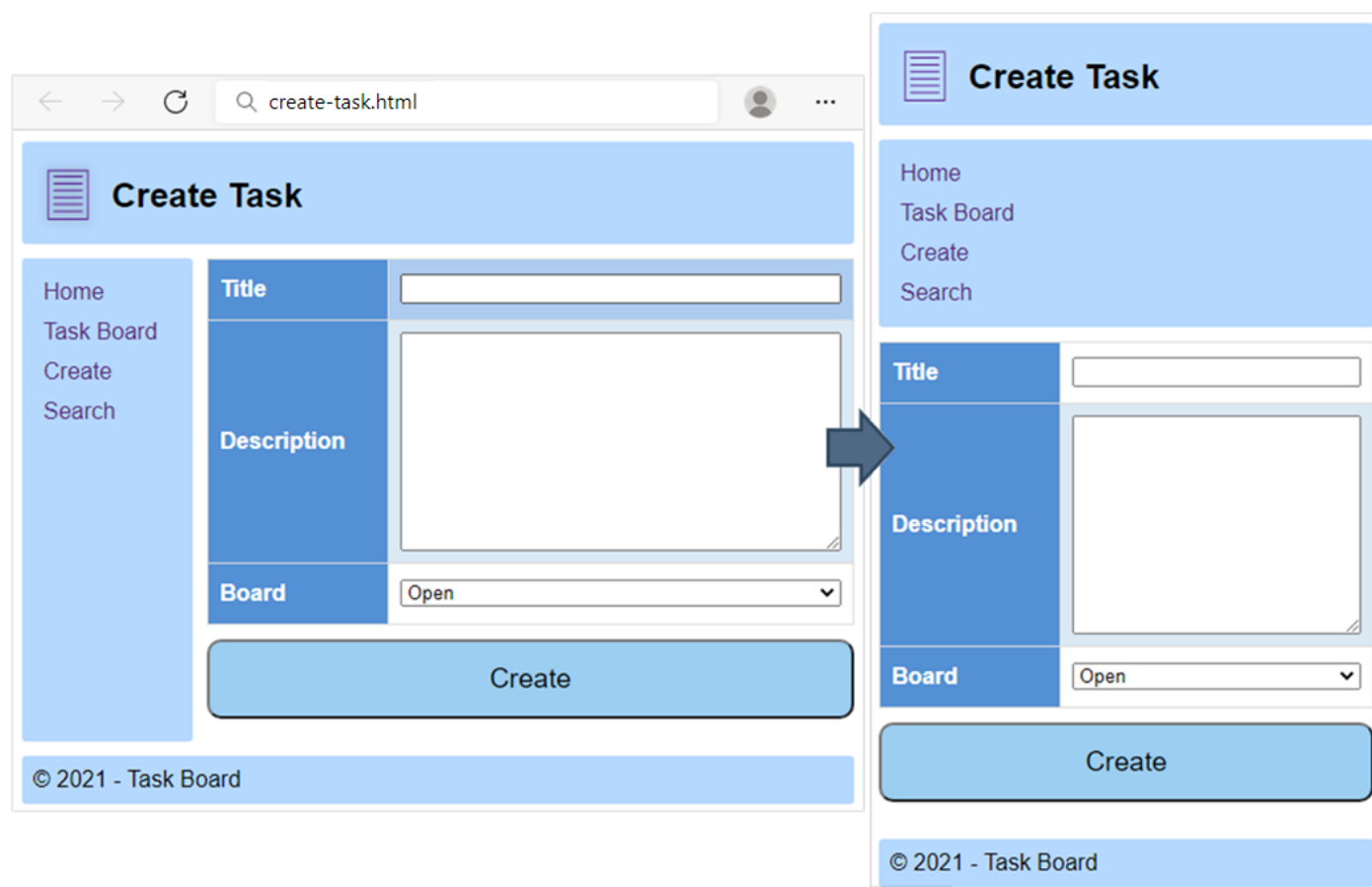
At smaller screens, you can change the **grid-template areas** (using media queries).

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

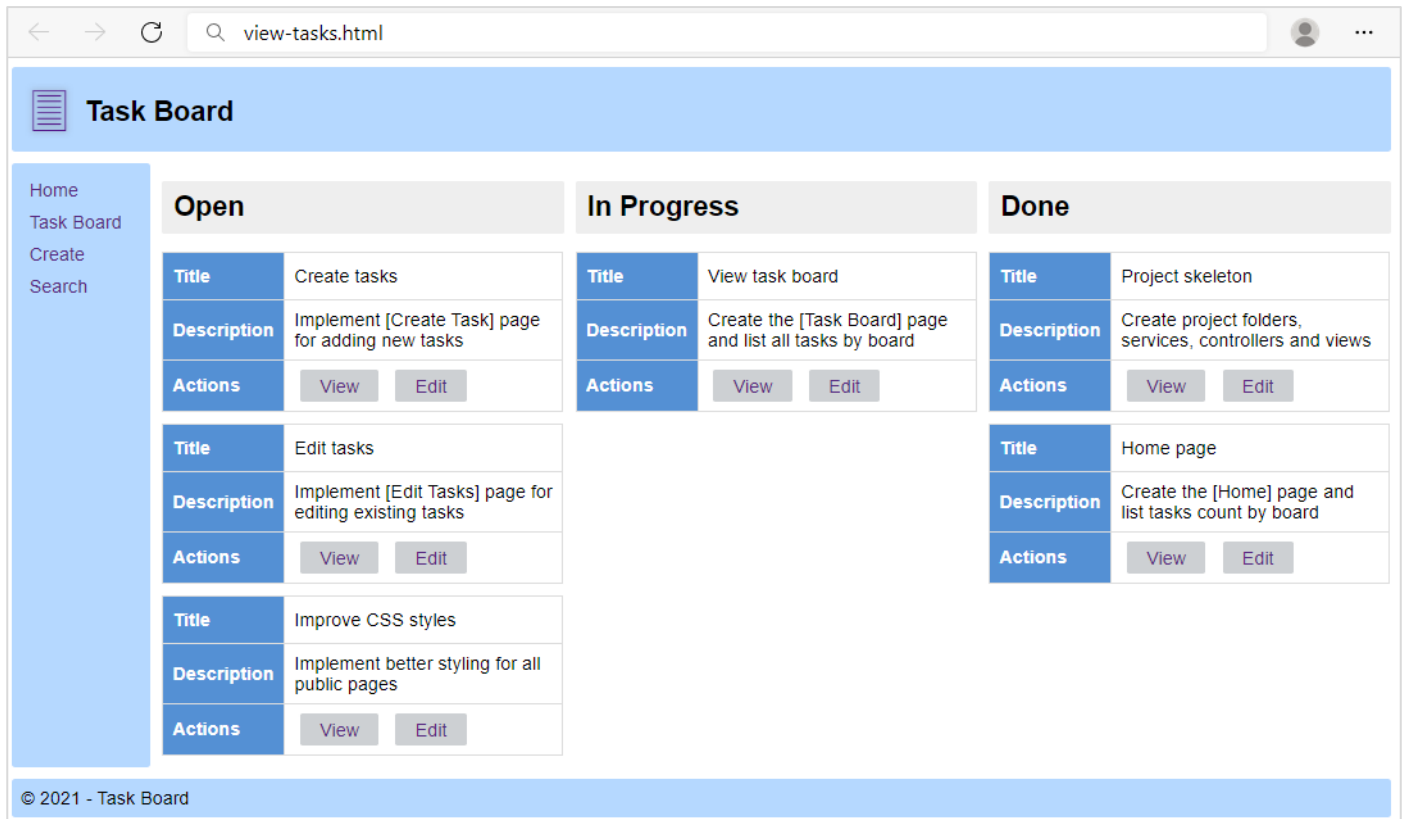
Like in the previous problem, write a **media query** that rearranges the grid areas in the **body** one after another when the screen size is **below 500px**.

c. Task Board – "View Tasks" Page

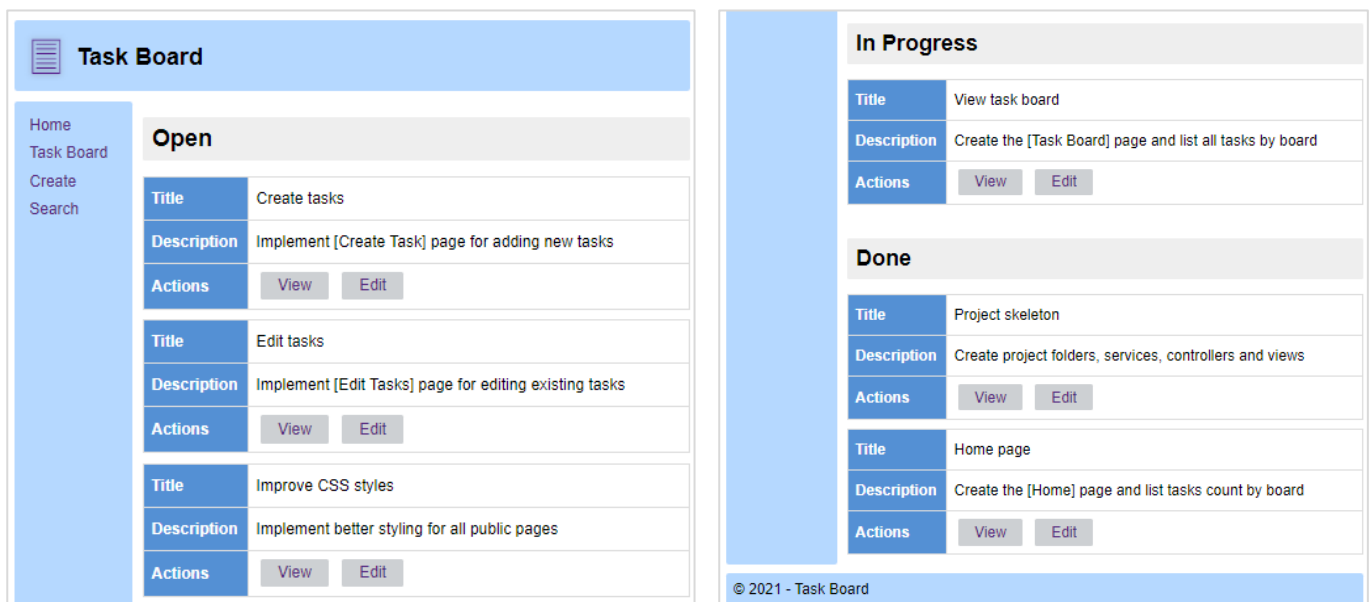
You will be given a **skeleton** with an **empty HTML** and **CSS** with styles. Your tasks are:

- 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 displays the 'Task Details' page. The header is light blue with a menu icon and the text 'Task Details'. The sidebar is light blue and contains 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	Edit Task

The footer 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)**.