

Exercise 1 – HTML & Bootstrap

Weighting: 2%

For this week's exercise, we ask all students to use our development environment Elf. If you prefer to use your own development environment, you can do so from next week.

In this exercise we are going to create simple HTML and Bootstrap web pages.

Task 1 – Development Environment and simple HTML page.

Follow the lecture to create a Linux virtual machine with Web-dev image on Elf.

On your Elf machine, create directories `~/html/webAppDev/week1/task1`, and inside this directory, create a file `index.html`. Place the following simple HTML code in this file:

```
<!DOCTYPE html>
<html>
<head>
  <meta charset=utf8>
  <title>Hello World!</title>
</head>
<body>
  <h1>Hello World!</h1>
</body>
</html>
```

View this html file in a web browser.

Task 2 – HTML elements

1. Create directories `~/html/webAppDev/week1/task2`. Under the `task2` directory, create a valid HTML 5 file called `index.html`. Add the following html elements to this file:
 - Heading
 - List
 - Table
 - Image
 - Address block
2. Create a link to a second web page. You'll also need to create the second page. The second page also needs to have a link back to `index.html`.
3. Zip up the `task2` project/directory and download it from Elf.
4. Set a password to restrict access to all your websites via `.htaccess` file.

Task 3 – Responsive Layout with Bootstrap

Create a **responsive web page** for a social networking website. The page should list posts that the user has made. The web page should have **at least 3 posts**. The posts should contain the date/time, a message, and an image.

Create a navigation menu along the top. The navigation menu should contain links for login/logout, home, friends, and photos (the actual link and the functionalities do not need to be implemented).

The content section must have at least two columns. One column displays posts, the other column contains a form for user to insert a new post. The two columns should collapse into one column when the screen size is less than **576px**.

Your page must use the Bootstrap framework.

An example of the web page layout:

Social Network

PhotosFriendsLogin

Name:

FirstnameLastname

Message:

Enter new message...

Image

Date Time
Message

Image

Date Time
Message

Image

Date Time
Message

Note: the demonstration video only provides a partial solution to this exercise.

Task 4 – Bootstrap templates

Adopt a Bootstrap example/template and repurpose it for a social network website. Implement all the features (or place holders) as in Task 3. Below is a screenshot of what was demonstrated in the lecture video, using the Navbar static template.

You are encouraged to use a **different template** to what is demonstrated in the lecture video.

