Web Programming and Problem Solving
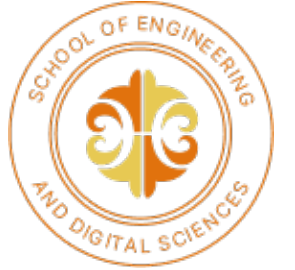
Home page of my Town (lab)

Date: 24.08.2022

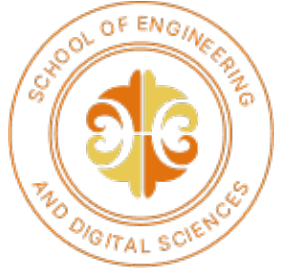Instructor: Zhandos Yessenbayev

Task

- In this **Lab** you need to:
  - create a HTML pages of your Home town
  - fill the web pages with relevant content
  - use the basic HTML elements
  - use hyperlinks to external and internal resources
  - insert images to the web page
  - website directory structure
  - publish your web page on Github

- **Deadlines:**
  - **Soft** deadline: Friday, 28.08.2022, until 23:59
  - **Hard** deadline: Sunday, 29.08.2022, until 23:59
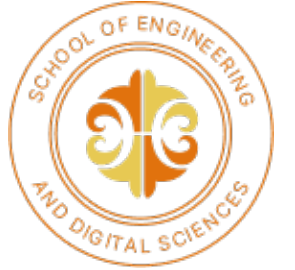
Good luck!!!

Starter Page

- Open a **Text Editor**

- Create a **new file**

- Type the the code on the right

- Save file as *index.html*

- Open it with a **browser**

- Check if everything is correct

  (**5 points**)

```html
<!DOCTYPE html>
<html lang="en">
 <head>
  <meta charset="UTF-8">
  <title>My Hometown</title>
 </head>
 <body>
   <h1>Page Header</h1>
   <p>Some content</p>
 </body>
</html>
```
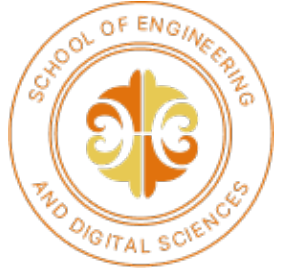
Content and Structure

- Find relevant content about your home town on the Internet or other resources
- Fill the web page with the relevant content (**5 points**)
- While filling the content think about the structure of the web page
    - identify the number of pages to have
    - identify sections and headings
    - identify paragraphs
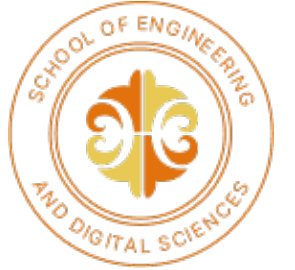   - identify where to place images and other multimedia content

Basic HTML elements

- Use these basic HTML elements to markup your content (**5 points**):
  - Heading elements – h1 to h6 tags
  - Paragraph – p tag
  - New line – br tag
  - Horizontal line – hr tag
  - Ordered and unordered lists – ol and ul tags
  - List items – li tags
  - Comments in the file - <!– *Comments go here* --> tags
  - Bold text – b or strong tags

Hyperlinks

Hyperlinks reference the external or internal resources on the Web

In your web site, you need to have at least one external and one internal hyperlink (**2+3 points**, respectively).

- Use **a** tag and its **href** attribute to define a hyperlink
- For the external resources, use <u>URL</u> of the resource:
    - NU website
    - Attribute values must be enclosed with <u>quotes</u>

- For internal resources, use relevant directories and file names
    - Other page on my website
    - Attribute values must be enclosed with <u>quotes</u>

Images

- To insert an image in your web page, use **img** tag (**5 points**)
- The img tag has two required attributes:
  - **src** – defines path or URL to the image
  - **alt** – defines an alternate text for the image
- The img tag has no <u>closing</u> tag
- To specify the size of an image, use width and height attributes in <u>pixels</u>

- Example:
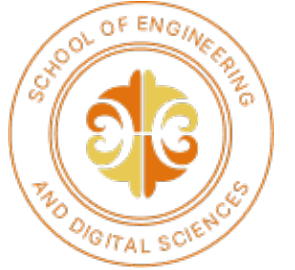 - <img src="my_image.jpg" alt="My Image" width="100" height="50">

Website directory

- For this assignment you need to have the following directory structure in the Github repository (**5 points**):
    - Root directory (repository) name – USERNAME.github.io , where USERNAME is your Github account name
    - In the directory there must be at least two HTML files: one of them must be named *index.html* and the second can have any name
    - Also, in the directory, there must be at least one image file, which has to be inserted in your webpage

Publishing your Website
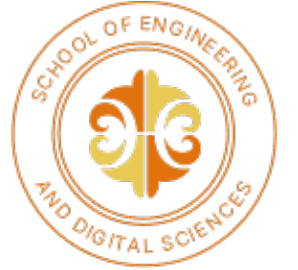
Now it's time to publish your website!

- To publish your website, upload your files to your Github repository named as USERNAME.github.io (USERNAME is your Github account)

- There are two ways to upload your files:
  - Option 1: Use upload button in Github repository (**5 point**)
  - Option 2: Use Git to upload your files (**10 points**)

Grading

Task	Points
Create a HTML pages	5
Fill the web pages with relevant content	5
Use the basic HTML elements	5
Use hyperlinks to external and internal resources	5
Insert images to the webpage	5
Website directory structure	5
Publishing your website	5 or 10
TOTAL	**35 + 5**

Thanks for Attention!