



NAZARBAYEV  
UNIVERSITY



# Web Programming and Problem Solving

**Home page of my Town (**lab**)**

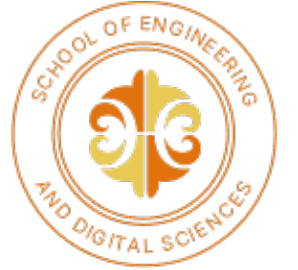
Date: 24.08.2022

Instructor: Zhandos Yessenbayev



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# Task

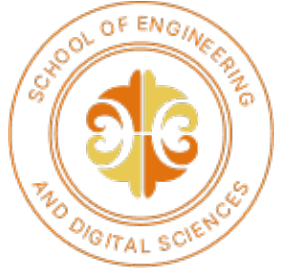


- In this **Lab** you need to:
  - create a HTML pages of your Home town
  - fill the web pages with relevant content
  - use the basic HTML elements
  - use hyperlinks to external and internal resources
  - insert images to the web page
  - website directory structure
  - publish your web page on Github
- **Deadlines:**
  - **Soft** deadline: Sunday, 28.08.2022, until 23:59
  - **Hard** deadline: Monday, 29.08.2022, until 23:59

**Good luck!!!**



# Starter Page

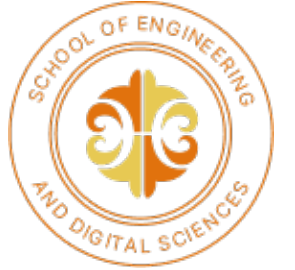


- Open a **Text Editor**
- Create a **new file**
- Type the the code on the right
- Save file as *index.html*
- Open it with a **browser**
- Check if everything is correct  
(5 points)

```
<!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>
```



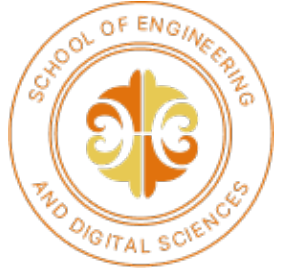
# Content and Structure



- 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



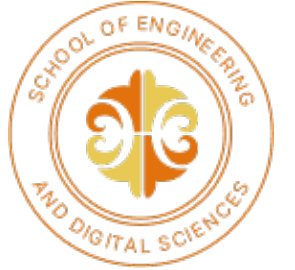
# Basic HTML elements



- 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 URL of the resource:
  - `<a href="http://nu.edu.kz">NU website</a>`
  - Attribute values must be enclosed with quotes
- For **internal** resources, use relevant directories and file names
  - `<a href="other_page.html">Other page on my website</a>`
  - Attribute values must be enclosed with quotes



# 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 closing tag
- To specify the size of an image, use **width** and **height** attributes in pixels
- Example:
  - ``



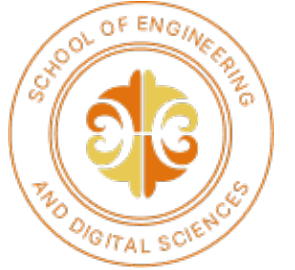
# Website directory

- 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

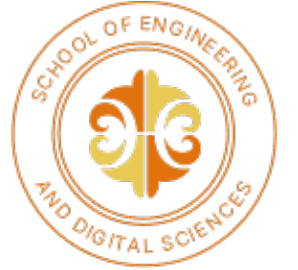


Now it's time to publish your website!

- 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
<b>TOTAL</b>	<b>35 + 5</b>

Thanks for Attention!