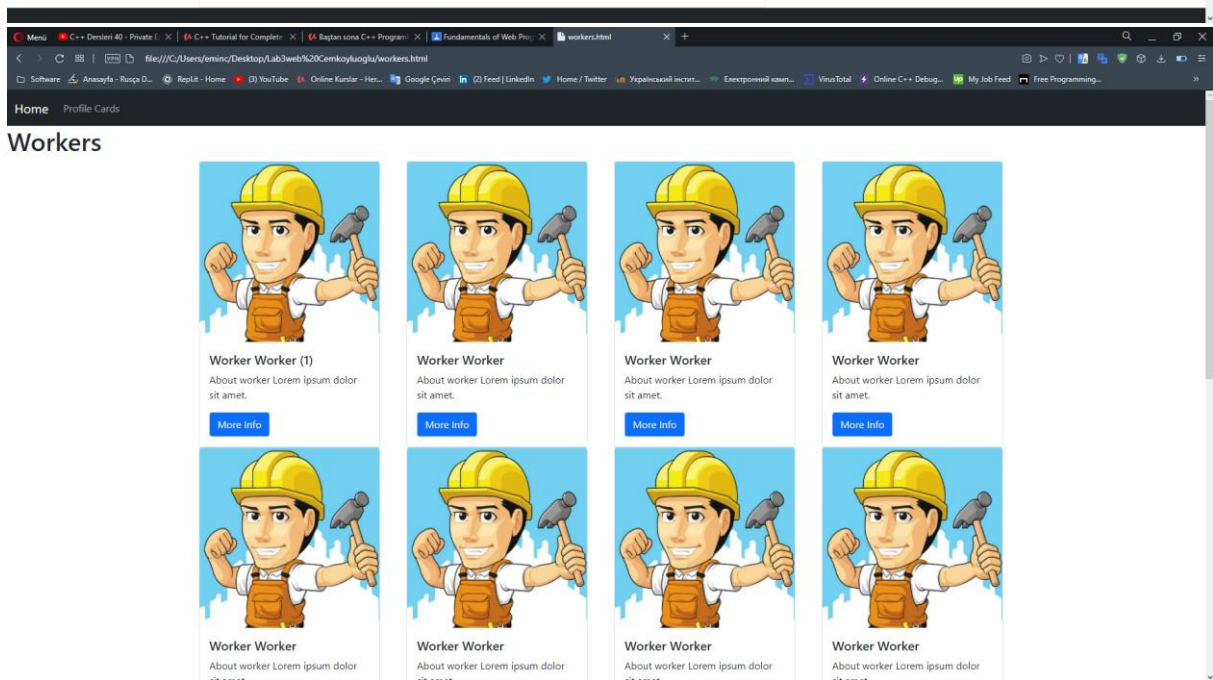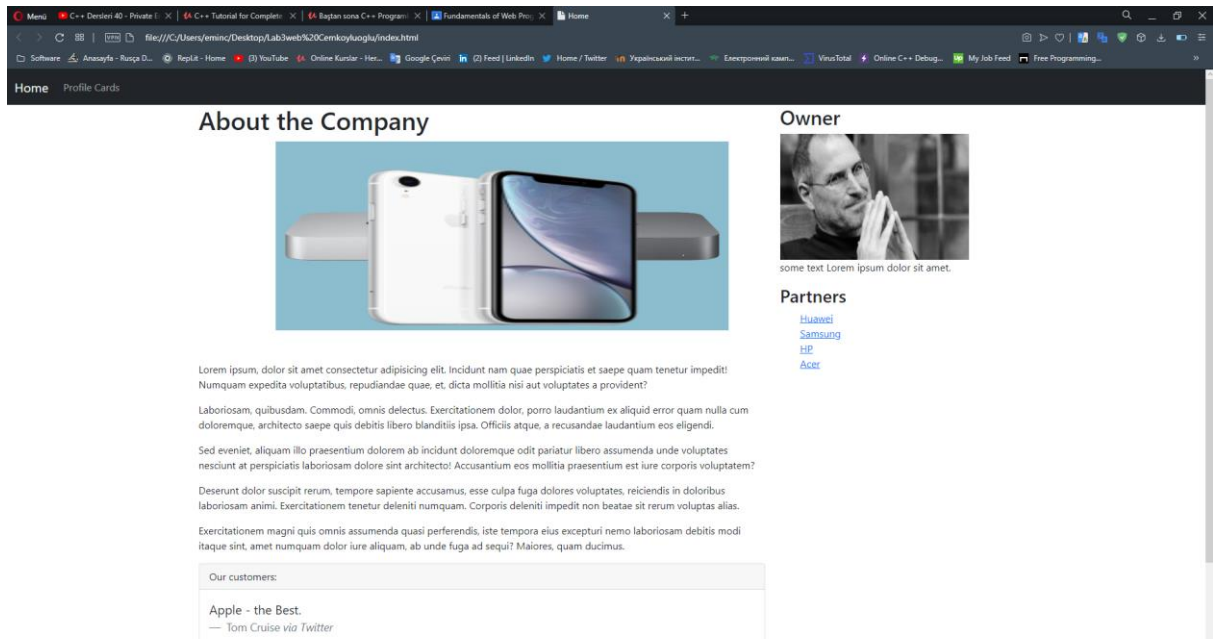NATIONAL TECHNICAL UNIVERSITY OF UKRAINE
"IGOR SIKORSKY KYIV POLYTECHNIC INSTITUTE"
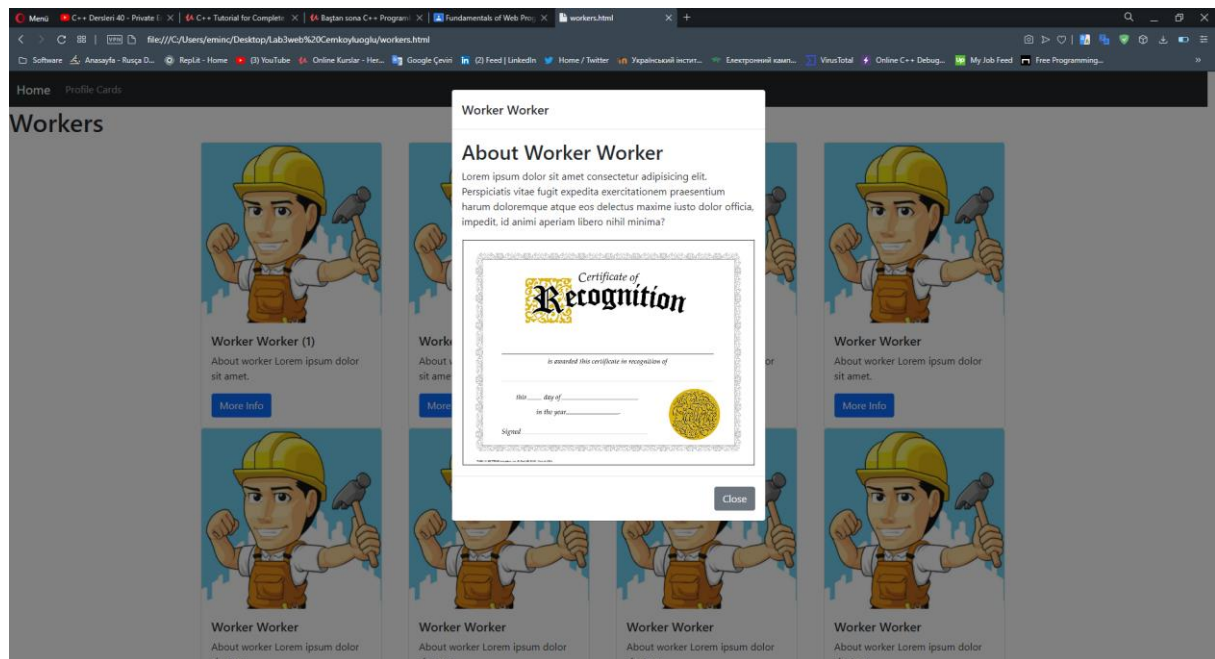
Faculty of Informatics and Computer Engineering
Department of Computer Engineering

Лабораторная работа 3
Библиотека jQuery. Использование фреймворка Bootstrap для создания сайта

2nd year student
groups of IP-98
CEM KOYLUOGLU

Kyiv 2021

main.css

```css
html, body{
    margin: 0;
    padding: 0;
}
.wrap{
    max-width: 1600px;
    margin:auto;
}
.header{
    display: flex;
}
.logo{
    flex-grow: 2;
    max-width: 200px;
}
.name-student{
    flex-grow: 2;
    background: linear-gradient(180deg, #FFFFFF 0%, rgba(255, 255, 255, 0) 100%), #88EA70;
    max-width: 200px;
    display: flex;
    justify-content: center;
    padding: 0;
    margin: 0;
    align-items: center;
}
.name-site{
    display: flex;
    flex-grow: 6;
    justify-content: center;
}
.menu{
    width: 100%;
    height: 100px;
    background: silver;
    font-size: 20px;
    display: flex;
    justify-content: center;
    align-items: center;
}
#menu{
    margin-right: 15px;
}
a{
    text-decoration: none;
    color: black;
}
.content{
    display: grid;
    grid-template-columns: 20% 60% 20%;
    background: linear-gradient(180deg, #FFFFFF 0%, rgba(255, 255, 255, 0) 100%), #88EA70;
}
.left-menu{
    background-color: white;
    height: 400px;
    display: flex;
    justify-content: center;
    align-items: center;
}
.content-menu{
    display: flex;
    flex-direction: column;
}
#title-text{
    text-align: center;
}
```

index.html

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Home</title>
    <style>
      * {
        margin: 0;
        padding: 0;
        box-sizing: border-box;
      }
      .owner img {
        width: 300px;
        height: 200px;
      }
      ul {
        list-style: none;
      }

      .wrapper {
        width: 80%;
        margin: 10px auto 250px;
        display: flex;
        flex-direction: row;
        align-items: center;
        position: relative;
      }

      .slider {
        height: 100px;
        width: 900px;
        margin: 0;
      }

      .slider li {
        position: absolute;
        top: 0;
        width: 100%;
        margin: 0 auto;
        height: 300px;
      }

      .slider li img {
        width: 100%;
        height: 100%;
      }
      .active {
        z-index: 1;
      }
    </style>
    <link
```

workers.html

```html
    src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta2/dist/js/bootstrap.bundle.min.js"
    integrity="sha384-b5kHyXgcqbZJ0/tY9Ol7bGkf150CWnKoCD3818/keH8z8QyE0Gm1gvU5S9FCmJ0"
    crossorigin="anonymous"
  ></script>
  </head>
  <body>
    <header>
      <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
        <div class="container-fluid">
          <a class="navbar-brand" href="./index.html">Home</a>
          <button
            class="navbar-toggler"
            type="button"
            data-bs-toggle="collapse"
            data-bs-target="#navbarNav"
            aria-controls="navbarNav"
            aria-expanded="false"
            aria-label="Toggle navigation"
          >
            <span class="navbar-toggler-icon"></span>
          </button>
          <div class="collapse navbar-collapse" id="navbarNav">
            <ul class="navbar-nav">
              <li class="nav-item">
                <a class="nav-link" href="./workers.html">Profile Cards</a>
              </li>
            </ul>
          </div>
        </div>
      </nav>
    </header>
    <main>
      <h1>Workers</h1>
      <div class="container">
        <div class="row">
          <div class="col-md-3">
            <div class="card" style="width: 18rem;">
              <img src="https://rt3.ggpht.com/ytc/AAUvwnqntUV6oZJ1eL7IaJO5dNBNbrIMQmHGug2Gu0P6-s900-c-k-c0x00ffffff-no-rj" c
              <div class="card-body">
                <h5 class="card-title">Worker Worker (1)</h5>
                <p class="card-text">
                  About worker Lorem ipsum dolor sit amet.
                </p>
                <button type="button" class="btn btn-primary" data-bs-toggle="modal" data-bs-target="#exampleModal">
                  More Info
                </button>
                <div class="modal fade" id="exampleModal" tabindex="-1" aria-labelledby="exampleModalLabel" aria-hidden="tru
                  <div class="modal-dialog">
                    <div class="modal-content">
                      <div class="modal-header">
                        <h5 class="modal-title" id="exampleModalLabel">Worker Worker</h5>
                      </div>
                      <div class="modal-body">
                        <div class="info">
                          <h2>About Worker Worker</h2>
                          <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Perspiciatis vitae fugit expedita exer
```

index.html

```html
              </li>
            </ul>
          </div>
        </div>
      </div>
    </main>
    <footer class="text-muted py-5 bg-dark">
      <div class="container">
        <p class="float-end mb-1">
          <a href="#">Op</a>
        </p>
        <p class="mb-1">
          Lorem ipsum dolor sit, amet consectetur adipisicing elit. Consequuntur
          debitis blanditiis, voluptates sit quod maxime, iste perspiciatis
          laboriosam tempore dolore maiores error in provident reprehenderit
          amet illo repudiandae porro temporibus!
        </p>
        <p class="mb-0">
          Lorem ipsum, dolor sit amet consectetur adipisicing elit. Velit fuga
          expedita quibusdam repellat praesentium porro odio voluptatum, nihil
          quae dolorum officiis, iure provident architecto voluptas hic
          mollitia, in beatae quo?
        </p>
      </div>
    </footer>
    <script
      src="https://code.jquery.com/jquery-3.5.1.min.js"
      integrity="sha256-9/aliT8dGG2tb6DSauzixeV4y/faTggFtohetphbbj0="
      crossorigin="anonymous"
    ></script>
    <script>
      $(document).ready(function () {
        $('.slider li:first').addClass('active');

        var change = function () {
          var currentElement = $('.slider li.active');
          var nextElement = currentElement.next();

          if (!nextElement.length) {
            nextElement = $('.slider li:first');
            nextElement.addClass('active');
            currentElement.removeClass('active');
          } else {
            nextElement.addClass('active');
            currentElement.removeClass('active');
          }
        };
        var interval = setInterval(change, 3000);
        $('img').click(() => clearInterval(interval));
      });
    </script>
  </body>
</html>
```

About the Company

Lorem ipsum, dolor sit amet consectetur adipisicing elit. Incidunt nam quae perspiciatis et saepe quam tenetur impedit! Numquam expedita voluptatibus, repudiandae quae, et, dicta mollitia nisi aut voluptates a provident?

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Deserunt dolor suscipit rerum, tempore sapiente accusamus, esse culpa fuga dolores voluptates, reiciendis in doloribus laboriosam animi. Exercitationem tenetur deleniti numquam. Corporis deleniti impedit non beatae sit rerum voluptas alias.

Exercitationem magni quis omnis assumenda quasi perferendis, iste tempora eius excepturi nemo laboriosam debitis modi itaque sint, amet numquam dolor iure aliquam, ab unde fuga ad sequi? Maiores, quam ducimus.

Our customers:

Apple - the Best.
— Tom Cruise *via Twitter*

Owner

some text Lorem ipsum dolor sit amet.

Partners

Huawei
Samsung
HP
Acer

Workers

Worker Worker (1)
About worker Lorem ipsum dolor sit amet.
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Worker Worker
About worker Lorem ipsum dolor sit amet.
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-ANSWERS-

1. Why do we use jQuery library?

jQuery is a lightweight, "write less, **do** more", JavaScript **library**. The purpose of **jQuery is to** make it much easier **to use** JavaScript on your website. **jQuery** takes a lot of common tasks that require many lines of JavaScript code **to** accomplish, and wraps them into methods that **you can** call **with** a single line of code.

2. Which jQuery library features do you know?

The jQuery library contains the following features:

- HTML/DOM manipulation.
- CSS manipulation.
- HTML event methods.
- Effects and animations.
- AJAX.
- Utilities.

3. How to add jQuery library for a project?

1. In the IDE, **create** a folder named js , and **add** it to **your project**. ...
2. Select the Other category, then select Folder.
3. Name the folder js . ...
4. Click Finish to exit the wizard.

5. Locate the **jQuery library** that you downloaded onto **your** computer. ...
6. Paste the **library** file into the new js folder.

4. What is basic jQuery syntax?

The **jQuery syntax** is tailor-made for selecting HTML elements and performing some action on the element(s). **Basic syntax** is: $(selector).action() A $ sign to define/access **jQuery**. A (selector) to "query (or find)" HTML elements. A **jQuery** action() to be performed on the element(s)

5. Which jQuery Event Methods do you know?

All the different visitors' actions that a web page can respond to are called events.

An event represents the precise moment when something happens.

Examples:

- moving a mouse over an element
- selecting a radio button
- clicking on an element

The term **"fires/fired"** is often used with events. Example: "The keypress event is fired, the moment you press a key".

6. What is the modular grid used for?

A **modular grid** has consistent horizontal divisions from top to bottom in addition to vertical divisions from left to right. These **modules** govern the placement and cropping of pictures as well as text.

7. What is the feature of landing pages?

Landing pages are generally designed to focus a website visitors' attention to a specific offer or service. It is usually a standalone **page** that provides information about a very particular

product or service offered and nothing else, this is to limit the distractions of other content on your website.

8. Which ways to start using Bootstrap 4 on a web site do you know?

   either download the bootstrapi and copy it into your project or copy the CDN urls to your page

9. What mean classes:

    .col-

    .col-sm-

    .col-md-

    .col-lg-

    .col-xl-?

    *It prevents us from repeatedly typing boxes such as divs or paragraphs to be used on the other side.

10. What are Bootstrap 4 Default Settings?

Bootstrap 4 uses a default font-size of 16px, and its line-height is 1.5. The default font-family is "**Helvetica Neue**", **Helvetica**, **Arial**, **sans-serif**.

11. Which colors mean classes

.bg-primary, = #007bff

.bg-success, = #28a745

.bg-info= #17a2b8

.bg-warning, = #ffc107

.bg-danger, = #dc3545

.bg-secondary, = #6c757d

.bg-dark = #343a40

and

`.bg-light` = #f8f9fa

12. What is Bootstrap 4 jumbotron?

A **jumbotron** indicates a big box for calling extra attention to some special content or information. A **jumbotron** is displayed as a grey box with rounded corners. It also enlarges the font sizes of the text inside it. Tip: Inside a **jumbotron** you can put nearly any valid HTML, including other **Bootstrap** elements/classes.

13. How to create a card in Bootstrap 4?

1. To create outer card container use .card and .card-body classes.
2. Use .card-title to any heading elements and .card-text to any text elements within the card container.
3. Use .card-header and .card-footer for creating header and footer inside the card.
4. To allign an image used with in the cards use .card-img-top or .card-img-down class to <img> tag.
5. Use .card-link class to <a> element to display link inside the card.
6. Use utility classes to change the background and border color of the card.

14. How to create a popover or tooltip components in Bootstrap 4?

To create a **tooltip**, **add** the data-toggle="**tooltip**" attribute to an element. Note: **Tooltips** must be initialized with jQuery: select the specified element and call the **tooltip**() method.

15. How to create a media object in Bootstrap 4? o create a media object, add the `.media` class to a container element, and place media content inside a child container with the `.media-body` class. Add padding and margins as needed, with the spacing utilities: