Министерство науки и высшего образования Российской Федерации

ФГАОУ ВО «Севастопольский государственный университет»

Институт радиоэлектроники и информационной безопасности

Кафедра «Радиоэлектроника и Телекоммуникации»

**ОТЧЁТ**

по лабораторной работе №3

«ИСПОЛЬЗОВАНИЕ HTML ДЛЯ РАЗРАБОТКИ ПРОСТОГО СТАТИЧЕСКОГО WEB – САЙТА»

«Коммуникации в сети интернет и принципы построения сайтов»

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Севастополь

2020

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**1.ОПИСАНИЕ ЛАБОРАТОРНОЙ РАБОТЫ**

**1.1. Цель работы**

Освоить навыки создания адаптивного макета и стилизации сайта с помощью фреймворка Bootstrap

**1.2. Теоретические сведения**

Bootstrap - это открытый и бесплатный HTML, CSS и JS фреймворк, который используется веб-разработчиками для быстрого создания адаптивных дизайнов сайтов. Фреймворк Bootstrap используется не только независимыми разработчиками, но и целыми компаниями. Основная область его применения – это разработка фронтенд составляющих сайтов и интерфейсов админок. Среди аналогичных систем (Foundation, UIkit, Semantic UI, InK и др.) фреймворк Bootstrap является самым популярным. Bootstrap - это просто набор файлов (CSS и JavaScript).

После подключения этих файлов к странице станет доступны для верстки дизайна большое количество классов и готовых компонентов. Используя их можно очень быстро и качественно создать современный адаптивный дизайн сайта. Классы Bootstrap можно разбить на 3 большие группы: ― Классы для создания сетки (адаптивного макета страницы); ― Классы для стилизации контента (текста, кода, изображений, таблиц и другой информации); ― Служебные классы (для решения наиболее часто встречающихся вспомогательных задач, таких как выравнивание, управление отображением, добавление границ и др.).

Кроме классов во фреймворке Bootstrap имеются ещё и компоненты (готовые объекты интерфейса). Это кнопки, хлебные крошки, формы, навигационные меню, выпадающие списки, всплывающие панели и др. Применение фреймворка Bootstrap при создании сайтов даёт следующие преимущества: ― Очень быстрое создание качественных адаптивных дизайнов сайтов (достигается благодаря использованию хорошо продуманных и протестированных огромным количеством вебразработчиков классов и готовых компонентов). 39 ― Современный дизайн (оформление HTML элементов и компонентов Bootstrap выполнено в едином стиле в последних тенденциях веб-дизайна). ― Нет необходимости иметь глубокие знания по HTML, CSS, JavaScript и jQuery (достаточно знать только основы вышеперечисленных технологий). ― Является кроссбраузерным и кроссплатформенным (адаптирован для всех популярных операционных систем и браузеров (Mozilla Firefox, Google Chrome, Safari, Internet Explorer и Opera и др.), работающих в этих системах). ― Является открытым и бесплатным. Фреймворк Bootstrap – это проект с открытым исходным кодом, доступным на Github. Он имеет лицензию MIT. Это означает, что его можно использовать бесплатно как для личного, так и для коммерческого использования.

Но, кроме преимуществ у Bootstrap есть также недостатки. Первый заключается в том, что он не подходит для проектов с уникальным дизайном. В этом случае из Bootstrap для проекта в основном берут только сетку. Второй – это когда вам для проекта нужны не все компоненты и классы, а только некоторые. Этот недостаток, не является проблемой. Например, на странице Customize можно очень просто собрать свою сборку, состоящую только из нужных классов и компонентов Bootstrap.

**2. Выполнение лабораторной работы**

1 задание.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<title>Flowers Gallery</title>

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<meta name="description" content="">

<meta name="author" content="">

<link id="callCss" rel="stylesheet" href="themes/css/bootstrap.min.css" type="text/css" media="screen" charset="utf-8" />

<link id="callCss" rel="stylesheet" href="themes/css/style.css" type="text/css" media="screen" charset="utf-8" />

<link href="themes/css/bootstrap-responsive.min.css" rel="stylesheet">

<link rel="stylesheet" href="themes/font-awesome/css/font-awesome.min.css">

<!--[if IE 7]>

<link rel="stylesheet" href="themes/font-awesome/css/font-awesome-ie7.css">

<![endif]-->

<!-- Le HTML5 shim, for IE6-8 support of HTML5 elements -->

<!--[if lt IE 9]>

<script src="http://html5shim.googlecode.com/svn/trunk/html5.js"></script>

<![endif]-->

<!-- Imbeded font from Google -->

<link href='http://fonts.googleapis.com/css?family=Lato:100,300,400,700,900,100italic,300italic,400italic,700italic,900italic' rel='stylesheet' type='text/css'>

</head>

<body data-spy="scroll" data-target=".navbar">

<div id="headerSection">

<div class="container">

<h1 class="brand cntr">TULIP</h1>

<div class="navbar">

<div class="nav-collapse">

<ul class="nav">

<li class="active"><a href="#carouselSection">Home </a></li>

<li><a href="#ourServices">What we do?</a></li>

<li><a href="#portfolioSection">Portfolio</a></li>

<li><a href="#blogSection">Blog</a></li>

<li><a href="#contactSection">Support</a></li>

</ul>

</div>

<button type="button" class="btn btn-navbar" data-toggle="collapse" data-target=".nav-collapse">

<span class="icon-bar"></span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

</button>

</div>

</div>

</div>

<!--Header Ends================================================ -->

<div id="carouselSection" class="cntr">

<div id="myCarousel" class="carousel slide">

<div class="carousel-inner">

<div class="item active">

<a class="cntr" href="#"><img src="themes/images/carousel/1.png" alt=""></a>

</div>

<div class="item">

<a class="cntr" href="#"><img src="themes/images/carousel/2.png" alt=""></a>

</div>

<div class="item">

<a class="cntr" href="#"><img src="themes/images/carousel/3.png" alt=""></a>

</div>

<div class="item">

<a class="cntr" href="#"><img src="themes/images/carousel/4.png" alt=""></a>

</div>

<div class="item">

<a class="cntr" href="#"><img src="themes/images/carousel/5.png" alt=""></a>

</div>

</div>

<a class="left carousel-control" href="#myCarousel" data-slide="prev">&lsaquo;</a>

<a class="right carousel-control" href="#myCarousel" data-slide="next">&rsaquo;</a>

</div>

</div>

<!-- Sectionone block ends======================================== -->

<div id="welcomeSection">

<div class="container cntr">

<h4>Testimonials</h4>

<div id="testimonial" class="carousel slide">

<div class="carousel-inner">

<div class="item active">

<p> Phasellus et velit est, non lacinia sem.<br/><br/></p>

</div>

<div class="item">

<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. non lacinia sem.<br/><br/></p>

</div>

<div class="item">

<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. velit est, non lacinia sem.<br/><br/></p>

</div>

</div>

<a class="left carousel-control" href="#testimonial" data-slide="prev">&lsaquo;</a>

<a class="right carousel-control" href="#testimonial" data-slide="next">&rsaquo;</a>

</div>

<h2>Welcome!</h2>

<p>

Vivamus commodo placerat libero, eget pulvinar felis lobortis in. Curabitur ac enim nibh. Cras in odio nisi. Fusce et augue velit. Nulla convallis, ipsum vitae tristique pretium, sapien odio viverra quam, eget mollis diam risus ut mi. Nullam ultrices ornare nisl, sagittis ullamcorper dolor rutrum vitae. Sed accumsan mauris eget elit dictum vitae dapibus nisl [...]

</p>

</div>

</div>

<!-- Our Services======================================== -->

<div id="ourServices">

<div class="container">

<h1 class="cntr">Our Services</h1>

<div class="row">

<div class="span4">

<div class="thumbnail">

<h4>Web Design</h4>

<h5>Your Website represents You...</h5>

<ul class="unstyled">

<li>Website Design</li>

<li>PSD To XHTML &amp; CSS Conversion</li>

<li>Graphic Design (Coverpage, Logo, Brocer etc.)</li>

</ul>

<a href="#"> More detail</a><p></p>

</div>

<br>

<div class="thumbnail">

<h4>Webpage Customizations</h4>

<h5>Drive your business in The Fast Track...</h5>

<ul class="unstyled">

<li> Customizing different websites </li>

<li> E-commersesite, Blogs and Forums etc.</li>

<li> Customization web packages </li>

</ul>

<a href="#"> More detail</a><p></p>

</div>

<br>

<div class="thumbnail">

<h4>SEO</h4>

<h5>For any online activities ... </h5>

<ul class="unstyled">

<li>PSD to XHTML and CSS Conversion</li>

<li> Updating old website to new generation. </li>

<li> Compitable with different Browser. </li>

</ul>

<a href="#"> More detail</a><p></p>

</div>

</div>

<div class="span4">

<div class="thumbnail">

<h4>Website Development</h4>

<h5>For any online activities ... </h5>

<ul class="unstyled">

<li>PSD to XHTML and CSS Conversion</li>

<li> Updating old website to new generation. </li>

<li> Compitable with different Browser. </li>

</ul>

<a href="#"> More detail</a><p></p>

</div>

<br>

<div class="thumbnail">

<h4>Webpage Customizations</h4>

<h5>Drive your business in The Fast Track...</h5>

<ul class="unstyled">

<li> Customizing different websites </li>

<li> E-commersesite, Blogs and Forums etc.</li>

<li> Customization web packages </li>

</ul>

<a href="#"> More detail</a><p></p>

</div>

<br>

<div class="thumbnail">

<h4>Optimizations</h4>

<h5>For any online activities ... </h5>

<ul class="unstyled">

<li>PSD to XHTML and CSS Conversion</li>

<li> Updating old website to new generation. </li>

<li> Compitable with different Browser. </li>

</ul>

<a href="#"> More detail</a><p></p>

</div>

</div>

<div class="span4">

<div class="thumbnail">

<h4>Webpage Customizations</h4>

<h5>Drive your business in The Fast Track...</h5>

<ul class="unstyled">

<li> Customizing different websites </li>

<li> E-commersesite, Blogs and Forums etc.</li>

<li> Customization web packages </li>

</ul>

<a href="#"> More detail</a><p></p>

</div>

<br>

<div class="thumbnail">

<h4>Webpage Customizations</h4>

<h5>Drive your business in The Fast Track...</h5>

<ul class="unstyled">

<li> Customizing different websites </li>

<li> E-commersesite, Blogs and Forums etc.</li>

<li> Customization web packages </li>

</ul>

<a href="#"> More detail</a><p></p>

</div>

<br>

<div class="thumbnail">

<h4>Multimedia</h4>

<h5>For any online activities ... </h5>

<ul class="unstyled">

<li>PSD to XHTML and CSS Conversion</li>

<li> Updating old website to new generation. </li>

<li> Compitable with different Browser. </li>

</ul>

<a href="#"> More detail</a><p></p>

</div>

</div>

</div>

</div>

</div>

<!-- Our Portfolio======================================== -->

<div id="portfolioSection">

<h1 class="cntr">Our Portfolio</h1>

<div class="container">

<ul class="nav nav-pills">

<li class="active"><a href="#all" data-toggle="tab">ALL</a></li>

<li class=""><a href="#new" data-toggle="tab">NEW</a></li>

<li class=""><a href="#popular" data-toggle="tab">POPULAR</a></li>

<li class=""><a href="#comingsoon" data-toggle="tab">COMING SOON</a></li>

</ul>

<div class="clr"></div>

<div class="tabbable tabs">

<div class="tab-content label-primary">

<div class="tab-pane active" id="all">

<ul class="thumbnails">

<li class="span3">

<div class="thumbnail">

<div class="blockDtl">

<a href="#"><img src="themes/images/portfolio/1.jpg" alt=""></a>

<h4>Easy Interface</h4>

<p>Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, </p>

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</div>

</div>

</li>

</ul>

<div class="pagination pull-right">

<ul>

<li><a href="#">Prev</a></li>

<li><a href="#">1</a></li>

<li><a href="#">2</a></li>

<li><a href="#">3</a></li>

<li><a href="#">Next</a></li>

</ul>

</div>

</div>

<div class="tab-pane" id="new">

<ul class="thumbnails">

<li class="span3">

<div class="thumbnail">

<div class="blockDtl">

<a href="#"><img src="themes/images/portfolio/2.jpg" alt=""></a>

<h4>Easy Interface</h4>

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</div>

</div>

</li>

</ul>

</div>

<div class="tab-pane" id="popular">

<ul class="thumbnails">

<li class="span3">

<div class="thumbnail">

<div class="blockDtl">

<a href="#"><img src="themes/images/portfolio/1.jpg" alt=""></a>

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<div class="thumbnail">

<div class="blockDtl">

<a href="#"><img src="themes/images/portfolio/1.jpg" alt=""></a>

<h4>Easy Interface</h4>

<p>Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, </p>

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</div>

</li>

</ul>

</div>

<div class="tab-pane" id="comingsoon">

<ul class="thumbnails">

<li class="span3">

<div class="thumbnail">

<div class="blockDtl">

<a href="#"><img src="themes/images/portfolio/1.jpg" alt=""></a>

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</div>

</li>

</ul>

</div>

</div>

</div>

</div>

</div>

<!-- ========================= -->

<!-- Contact Section -->

<div id="blogSection">

<h1 class="cntr"> OUR BLOG</h1>

<div class="container">

<div class="row">

<div class="span9">

<div class="blogBlk">

<div class="inner">

<h1><a href="#" rel="bookmark" title="Permanent Link to Cras in odio nisi">Cras in odio nisi</a></h1>

<p class="meta">Added by <a href="#" title="Posts by admin">admin</a> on <a href="#">November 14th, 2010</a>, filed under

<a href="#" title="View all posts in Category 3" rel="category">Design </a></p>

<p><img src="themes/img/1.png" class="attachment-wide wp-post-image" alt="78" title="78"></p>

<p>Vivamus commodo placerat libero, eget pulvinar felis lobortis in. Curabitur ac enim nibh. Cras in odio nisi. Fusce et augue velit.

Nulla convallis, ipsum vitae tristique pretium, sapien odio viverra quam, eget mollis diam risus ut mi. Nullam ultrices ornare nisl,

sagittis ullamcorper dolor rutrum vitae. Sed accumsan mauris eget elit dictum vitae dapibus nisl [...]</p>

<p>

<a href="#" title="Comment on Cras in odio nisi">4 Comments</a> |

<a href="#">Add Comments</a> |

<a href="#">More Details</a>

</p>

</div>

<hr class="soften"/>

<div class="inner">

<h1><a href="#" rel="bookmark" title="Permanent Link to Cras in odio nisi">Cras in odio nisi</a></h1>

<p class="meta">Added by <a href="#" title="Posts by admin">admin</a> on <a href="#">November 14th, 2010</a>, filed under <a href="#" title="View all posts in Category 3" rel="category">Category 3</a></p>

<p><img src="themes/img/2.png" class="attachment-wide wp-post-image" alt="78" title="78"></p>

<p>Vivamus commodo placerat libero, eget pulvinar felis lobortis in. Curabitur ac enim nibh. Cras in odio nisi. Fusce et augue velit.

Nulla convallis, ipsum vitae tristique pretium, sapien odio viverra quam, eget mollis diam risus ut mi. Nullam ultrices ornare nisl,

sagittis ullamcorper dolor rutrum vitae. Sed accumsan mauris eget elit dictum vitae dapibus nisl [...]</p>

<p>

<a href="#" title="Comment on Cras in odio nisi">4 Comments</a> |

<a href="#">Add Comments</a> |

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<p><img src="themes/img/3.png" class="attachment-wide wp-post-image" alt="78" title="78"></p>

<p>Vivamus commodo placerat libero, eget pulvinar felis lobortis in. Curabitur ac enim nibh. Cras in odio nisi. Fusce et augue velit.

Nulla convallis, ipsum vitae tristique pretium, sapien odio viverra quam, eget mollis diam risus ut mi. Nullam ultrices ornare nisl,

sagittis ullamcorper dolor rutrum vitae. Sed accumsan mauris eget elit dictum vitae dapibus nisl [...]</p>

<p>

<a href="#" title="Comment on Cras in odio nisi">4 Comments</a> |

<a href="#">Add Comments</a> |

<a href="#">More Details</a>

</p>

</div>

</div>

<div class="pagination pull-right">

<ul>

<li><a href="#">Prev</a></li>

<li><a href="#">1</a></li>

<li><a href="#">2</a></li>

<li><a href="#">3</a></li>

<li><a href="#">Next</a></li>

</ul>

</div>

</div>

<!-- Sidebar comumn -->

<div class="span3">

<div class="well well-small">

<h4>Categories</h4>

<ul>

<li><a href="#">ALL</a></li>

<li><a href="#">Design (14)</a></li>

<li><a href="#">SEO (18)</a></li>

<li><a href="#">Development (8)</a></li>

<li><a href="#">Optimizations (4)</a></li>

<li><a href="#">Customizations (18)</a></li>

<li><a href="#">Media</a></li>

</ul>

</div>

<div id="clients">

<div class="thumbnail">

<div class="blockDtl">

<a href="#"><img src="themes/images/portfolio/1.jpg" alt=""></a>

<h4>Download</h4>

<a href="#">Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, <br><strong>Download Now</strong></a>

</div>

</div>

</div>

<br>

<div class="well well-small">

<h4>Popular Posts</h4>

<ul>

<li><a href="#">Customizations</a></li>

<li><a href="#">Media</a></li>

</ul>

</div>

<div class="well well-small">

<h4>Archives</h4>

<ul>

<li><a href="#">November 2012 (10)</a></li>

<li><a href="#">October 2012 (19)</a></li>

<li><a href="#">September 2012 (19)</a></li>

<li><a href="#">August 2012 (22)</a></li>

<li><a href="#">July 2012 (25)</a></li>

<li><a href="#">June 2012 (19)</a></li>

<li><a href="#">May 2012 (27)</a></li>

<li><a href="#">April 2012 (15)</a></li>

<li><a href="#">More...</a></li>

</ul>

</div>

</div>

</div>

</div>

</div>

<!-- Contact Section -->

<div id="contactSection">

<h1 class="cntr">Contact Us</h1>

<div class="container">

<div class="row">

<div class="span9">

<div class="alert alert-error">( \* )Lorem ipsum dolor sit amet, consectetur adipiscing elit.</div>

<form class="form-horizontal">

<fieldset>

<div class="control-group">

<label class="control-label" for="input01">Name</label>

<div class="controls">

<input type="text" class="input-xlarge" id="input01">

</div>

</div>

<div class="control-group">

<label class="control-label" for="input11">Email</label>

<div class="controls">

<input type="text" class="input-xlarge" id="input11">

</div>

</div>

<div class="control-group">

<label class="control-label" for="textarea">Messages</label>

<div class="controls">

<textarea class="input-xlarge" id="textarea" rows="3" style="height:65px"></textarea>

</div>

</div>

<div class="control-group">

<label class="control-label" for="optionsCheckbox">Send me a copy</label>

<div class="controls">

<label class="checkbox">

<input type="checkbox" id="optionsCheckbox" value="option1">

</label>

</div>

</div>

<div class="form-actions">

<button type="submit" class="btn btn-success">send messages</button>

<button class="btn">Cancel</button>

</div>

</fieldset>

</form>

</div>

<div class="span3">

<div>

<h4>Tulip LLC</h4>

<p>

Tulip LLC Los Angeles

102 W. 1st St.

Los Angeles, CA 90011<br>

Phone: 1234567891<br>

Fax: 109876543212<br>

Email: <a href="mailto:info@tulipllc.com">info@tulipllc.com</a><br>

website: <a href="http://www.tulipllc.com">www.tulipllc.com</a>

</p>

</div>

<br>

<br>

<div>

<h4>Tulip LLC</h4>

<p>

Tulip LLC, Newyork

231 NY. Mage St.

Newyork, NY 80021<br>

Phone: 3467236346<br>

Fax: 7453734734<br>

Email: <a href="mailto:info@tulipllc.com">info@tulipllc.com</a><br>

website: <a href="http://www.tulipllc.com">www.tulipllc.com</a>

</p>

</div>

</div>

</div>

</div>

</div>

<!-- Wrapper end -->

<div id="footerSection">

<div class="container">

<div class="socialMedia">

<a class="facebook" href="#"></a>

<a class="twitter" href="#"></a>

</div>

<div id="footerMenu">

<a href="#carouselSection">Home </a>

<a href="#ourServices">What we do?</a>

<a href="#portfolioSection">Portfolio</a>

<a href="#blogSection">Blog</a>

<a href="#contactSection">Support</a>

</div>

<p><small>www.tuplipllc.com &copy; 2013 All rights reserved.</small></p>

</div>

</div>

<a href="#" class="go-top" style="display: none;"><i class="icon-double-angle-up"></i></a>

<!-- Javascript

================================================== -->

<!-- Placed at the end of the document so the pages load faster -->

<script src="themes/js/jquery-1.9.1.min.js"></script>

<script src="themes/js/bootstrap.min.js" type="text/javascript"></script>

<script src="themes/js/jquery.scrollTo-1.4.3.1-min.js" type="text/javascript"></script>

<script src="themes/js/jquery.easing-1.3.min.js"></script>

<script src="themes/js/jquery.scrollTo-1.4.3.1-min.js"></script>

<script src="themes/js/default.js"></script>

<script type="text/javascript">

$('#testimonial').carousel({

interval: 10000

})

$('#myCarousel').carousel({

interval: 7000

})

</script>

</body>

</html>

(3 задание)

<table class="table table-bordered table-dark">

<thead>

<tr>

<th scope="col">#</th>

<th scope="col">Имя</th>

<th scope="col">Фамилия</th>

<th scope="col">Username</th>

</tr>

</thead>

<tbody>

<tr>

<th scope="row">1</th>

<td>Mark</td>

<td>Otto</td>

<td>@mdo</td>

</tr>

<tr>

<th scope="row">2</th>

<td>Mark</td>

<td>Otto</td>

<td>@TwBootstrap</td>

</tr>

<tr>

<th scope="row">3</th>

<td>Jacob</td>

<td>Thornton</td>

<td>@fat</td>

</tr>

<tr>

<th scope="row">4</th>

<td colspan="2">Larry the Bird</td>

<td>@twitter</td>

</tr>

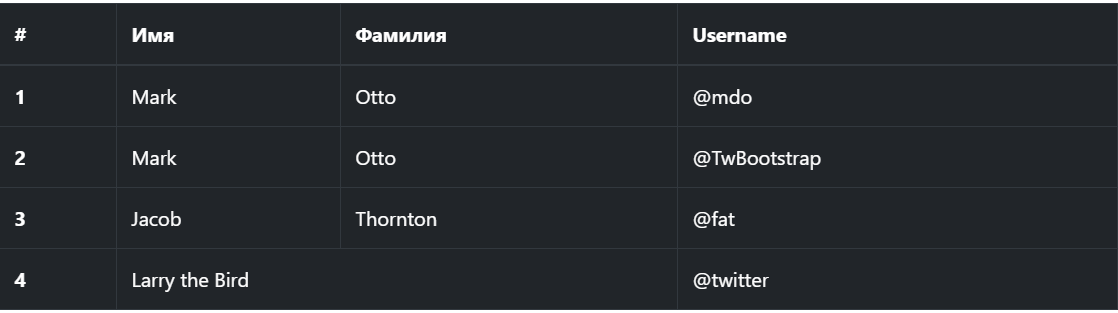
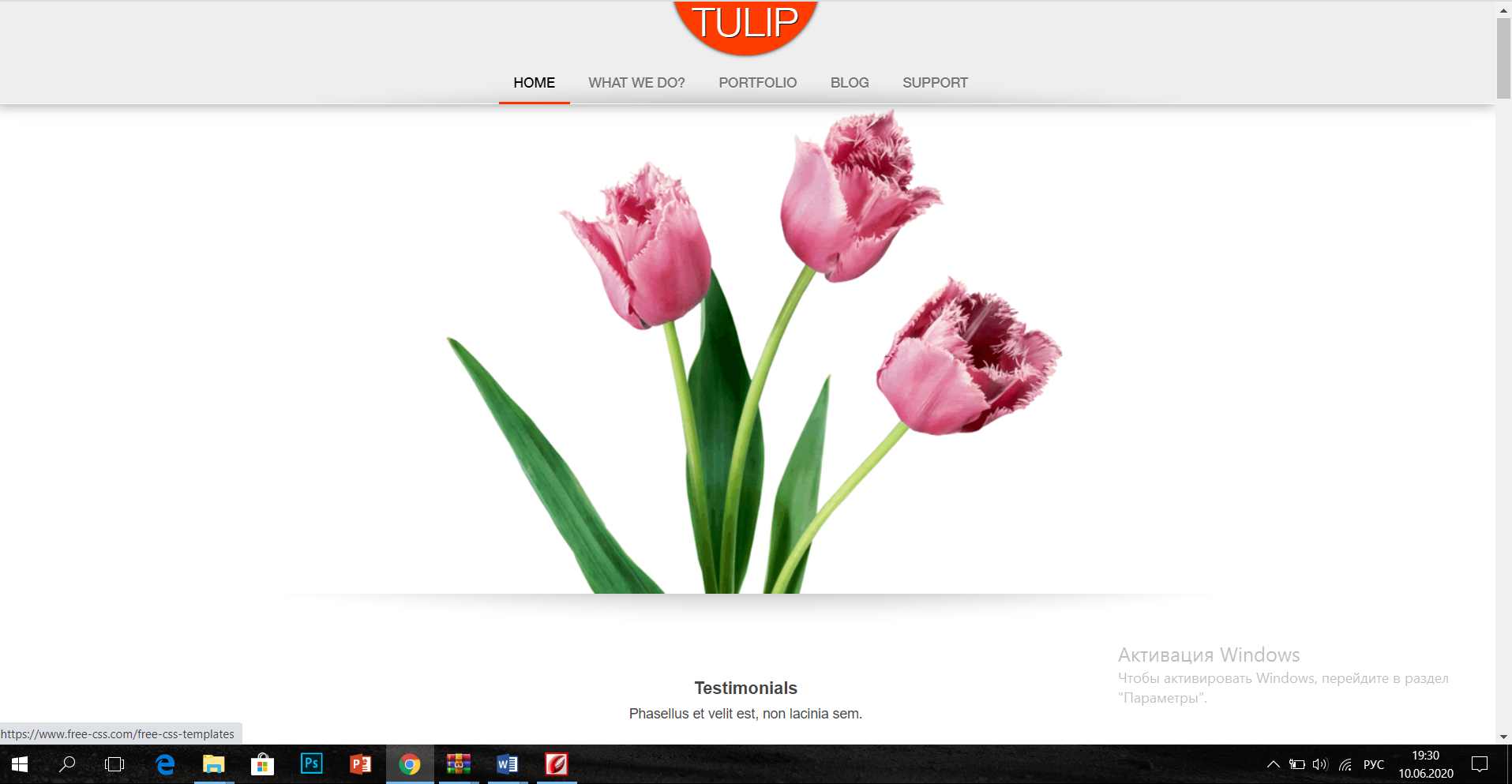
</tbody>

</table>

**2.2. Таблица использованных тегов**

|  |  |
| --- | --- |
| Имя тега | Назначение тега |
| font-weight | жирность шрифта. |
| font-style | стиль шрифта. |
| font-variant | вариант стиля шрифта. |
| font-size | размер шрифта. |
| font-family | определяет список семейств шрифтов. |
| font | позволяет установить сразу несколько свойств шрифта в одном определении: font-style, font-variant, font-weight, font-size, line-height, font-family. |
| <a href> | предназначен для размещения ссылки на сайте. |

**2.2. Скриншоты выполнения программы**



**3.Выводы**

В ходе выполнения данной лабораторной работы, я освоил навыки создания адаптивного макета и стилизации сайта с помощью фреймворка Bottstrap.