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| Gerb-BMSTU_01 | **Министерство науки и высшего образования Российской Федерации**  **Федеральное государственное бюджетное образовательное учреждение**  **высшего образования**  **«Московский государственный технический университет**  **имени Н.Э. Баумана**  **(национальный исследовательский университет)»**  **(МГТУ им. Н.Э. Баумана)** |

ФАКУЛЬТЕТ \_\_\_\_\_\_\_\_ИНФОРМАТИКА И СИСТЕМЫ УПРАВЛЕНИЯ\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

КАФЕДРА \_\_\_\_\_\_\_СИСТЕМЫ ОБРАБОТКИ ИНФОРМАЦИИ И УПРАВЛЕНИЯ (ИУ5)\_\_\_\_

**О Т Ч Е Т**

**по лабораторной работе №7**

по дисциплине: Разработка интернет-приложений\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

на тему: \_\_\_\_\_\_\_\_\_\_\_Работа с DOM с использованием JavaScript.\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. **Задание и порядок выполнения**

Разработать приложение для построения графиков тригонометрических функций на языке Javascript с HTML интерфейсом

1. **Выполнение задания и исходный код проекта**

index.html

<!DOCTYPE html>

<html>

<head>

<title>Лаб 7</title>

<link rel="stylesheet" type="text/css" href="main.css">

<link rel="stylesheet" type="text/css" href="css/bootstrap.css">

<link rel="stylesheet" type="text/css" href="css/bootstrap-grid.css">

</head>

<body>

<div class="col-md-8 order-md-1">

<h4 class="mb-3">Лаб 7</h4>

<div class="row">

<div class="col-md-6 mb-3">

<label for="firstName">From:</label>

<input type="text" class="form-control fromProj" id="fromValue" placeholder="" value="" required>

</div>

</div>

<div class="row">

<div class="col-md-6 mb-3">

<label for="firstName">To:</label>

<input type="text" class="form-control toProj" id="toValue" placeholder="" value="" required>

</div>

</div>

<div class="row">

<div class="col-md-6 mb-3">

<label for="firstName">Fun:</label>

<input type="text" class="form-control funProj" id="funValue" placeholder="" value="" required>

</div>

</div>

<div class="row">

<div class="col-md-6 mb-3">

<button class="btn btn-primary btn-lg btn-block butProj" id="butProj" type="submit">Plot!</button>

</div>

</div>

</div>

<div class="row">

<div class="col-6">

<div class="outProj" id="#outProj"></div>

</div>

<div class="col-6">

<div class="outProj2" id="#outProj2"></div>

</div>

</div>

<script language="javascript" type="text/javascript" src="libs/jquery-2.2.4.min.js"></script>

<script language="javascript" type="text/javascript" src="libs/jquery.flot.js"></script>

<script src="index.js"></script>

</body>

</html>

index.js

function showGraphNoAnimation(fromForGraph, toForGraph, funForGraph, object) {

xPoint=[];

yPoint=[];

for(fromForGraph; fromForGraph<=toForGraph; fromForGraph+=0.01){

let x;

x=fromForGraph;

y=eval(funForGraph);

xPoint.push(fromForGraph);

yPoint.push(y);

}

let points = new Array();

for(let i=0; i<xPoint.length; i++) {

points[i] = new Array();

}

for (let i = 0; i < xPoint.length; i++) {

points[i][0]=xPoint[i];

points[i][1]=yPoint[i];

}

let options = {

legend: {

show: true

},

color: "#F2B2F2",

label: funForGraph,

data: points,

lines: { show: true, fill: false }

}

let outProj=$(object);

$.plot(outProj, [options]);

}

$('document').ready(function(){

$('.butProj').on('click', function(){

let fromForGraph, toForGraph, funForGraph;

fromForGraph=$('#fromValue').val();

//fromForGraph=0;

toForGraph=$('.toProj').val();

//toForGraph=2;

funForGraph=$('.funProj').val();

//funForGraph='Math.sin(x)'

fromForGraph=parseFloat(fromForGraph);

toForGraph=parseFloat(toForGraph);

showGraphNoAnimation(fromForGraph, toForGraph, funForGraph,'.outProj');

});

});

1. **Результат выполнения лабораторной работы**



