МИНИСТЕРСТВО ОБРАЗОВАНИЯ И НАУКИ РОССИЙСКОЙ ФЕДЕРАЦИИ

Федерально автономное образовательное учреждение высшего образования

«Севастопольский государственный университет»

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курс 3 группа ИС/б-31-о

09.03.02 Информационные системы и технологии (уровень бакалавриата)

ОТЧЕТ

по лабораторной работе №4

по дисциплине «Веб-технологии»

на тему «Исследование возможностей библиотеки

jQuery.»

Отметка о зачете \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

(дата)

Руководитель практикума

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Севастополь 2017

1. ЦЕЛЬ РАБОТЫ

Изучить возможность программирования на клиентской стороне с использованием библиотеки jQuery. Приобрести практические навыки использования библиотеки jQuery для обработки форм, модификации содержимого HTML-страницы, создания эффектов анимации.

1. ПОСТАНОВКА ЗАДАЧИ

2.1. Модифицировать JavaScript, разработанные при выполнении предыдущих лабораторных работ, используя везде, где возможно библиотеку jQuery для выполнения поставленных задач.

2.2. Модифицировать страницу «Фотоальбом» добавив возможность просмотра увеличенных версий изображений. С использованием возможностей библиотеки jQuery реализовать просмотр фото.

При щелчке по стрелкам должна происходить анимированная смена изображений. Изменяться должны также и тексты всплывающих сообщений(alt, titile).

2.3. Реализовать возможность отображения всплывающего блока Popover, который показывается рядом с элементом, если на него наводится указатель мыши и который исчезает через M секунд после того, как указатель мыши покидает элемент.

Использовать разработанный код для отображения подсказок уточняющих формат ввода пользователю в формах.

2.4. Реализовать возможность отображения всплывающего модального окна, которое показывается в центре экрана. При этом задний фон вокруг модального окна должен размываться.

1. ИСХОДНЫЙ КОД

gallery.js

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| |  |  | | --- | --- | | 1 | *var* gallery\_elements = []; | | 2 | for (*var* i = 1; i <= 15; i++) { | | 3 | *var* fi = i <= 9 ? '0' + i : i; | | 4 | gallery\_elements.push({ | | 5 | id: i, | | 6 | legend: 'Photo ' + i, | | 7 | alt: 'Photo ' + i, | | 8 | title: 'Photo ' + i, | | 9 | src: 'img/gallery/photo' + fi + '.jpeg' | | 10 | }); | | 11 | } | | 12 |  | | 13 | *function* load\_gallery() { | | 14 | *var* cont = $('#gallery-cont'), | | 15 | html = ''; | | 16 | for (*var* i = 0; i < gallery\_elements.length; i++) { | | 17 | *var* el = gallery\_elements[i], | | 18 | item = $('<div></div>'), | | 19 | img = $('<img/>'), | | 20 | span = $('<span></span>'); | | 21 | item.addClass('item') | | 22 | .append(img, span); | | 23 | img.attr('src', el.src) | | 24 | .attr('alt', el.alt) | | 25 | .attr('title', el.title) | | 26 | .data('index', i); | | 27 | span.addClass('item') | | 28 | .text(el.legend); | | 29 | cont.append(item); | | 30 | } | | 31 | initLightbox(cont); | | 32 | } | | 33 |  | | 34 | *function* initLightbox(*cont*) { | | 35 | cont.find('img') | | 36 | .on('click', *function* () { | | 37 | lightbox\_open(cont, $(this).data('index')); | | 38 | }); | | 39 | } | | 40 |  | | 41 | *function* lightbox\_open(*images*, *index*) { | | 42 | *var* cont = $(*document*.body), | | 43 | lightbox = $('<div></div>'), | | 44 | container = $('<div></div>'), | | 45 | items = $('<div></div>'); | | 46 |  | | 47 | cont.append( | | 48 | lightbox.attr('id', 'lightbox') | | 49 | .append( | | 50 | $('<div></div>') | | 51 | .addClass('prev') | | 52 | .text('← Назад') | | 53 | .on('click', lightbox\_prev), | | 54 | container | | 55 | .addClass('lightbox-items'), | | 56 | $('<div></div>') | | 57 | .addClass('next') | | 58 | .text('Вперёд →') | | 59 | .on('click', lightbox\_next) | | 60 | ) | | 61 | ).addClass('lightbox'); | | 62 |  | | 63 | $(*document*) | | 64 | .bind('keydown', 'left', lightbox\_prev) | | 65 | .bind('keydown', 'right', lightbox\_next); | | 66 |  | | 67 | images.find('img').each(*function* (*i*) { | | 68 | *var* $this = $(this); | | 69 | container.append( | | 70 | $('<div></div>') | | 71 | .addClass('lightbox-item') | | 72 | .addClass(i == index ? 'current' : '') | | 73 | .append( | | 74 | $('<img/>') | | 75 | .attr('src', $this.attr('src')) | | 76 | .attr('alt', $this.attr('alt')) | | 77 | .attr('title', $this.attr('title')), | | 78 | $('<span></span>') | | 79 | .addClass('legend') | | 80 | .text($this.siblings('span').text()) | | 81 | ) | | 82 | ); | | 83 | }); | | 84 |  | | 85 | setTimeout(*function* () { | | 86 | lightbox.addClass('show'); | | 87 | }, 100); | | 88 | lightbox.find('.lightbox-item').on('click', *function* () { | | 89 | lightbox.removeClass('show') | | 90 | .parent().removeClass('lightbox'); | | 91 | setTimeout(*function* () { | | 92 | lightbox.remove(); | | 93 | }, 350); | | 94 | }); | | 95 | } | | 96 |  | | 97 | *function* lightbox\_prev() { | | 98 | *var* lightbox = $('#lightbox'), | | 99 | items = lightbox.find('.lightbox-item'), | | 100 | current = items.filter('.current'), | | 101 | prev = current.prev(); | | 102 |  | | 103 | if (prev.length == 0) { | | 104 | prev = items.last(); | | 105 | } | | 106 |  | | 107 | prev.css({ | | 108 | left: '-100vw', | | 109 | opacity: 1 | | 110 | }); | | 111 | current.animate({ | | 112 | left: '150vw' | | 113 | }, 300, *function* () { | | 114 | }); | | 115 | prev.animate({ | | 116 | left: '50%' | | 117 | }, 300, *function* () { | | 118 | items | | 119 | .removeClass('current') | | 120 | .css({ | | 121 | opacity: '', | | 122 | left: '' | | 123 | }); | | 124 | $(this).addClass('current'); | | 125 | }); | | 126 | } | | 127 |  | | 128 | *function* lightbox\_next() { | | 129 | *var* lightbox = $('#lightbox'), | | 130 | items = lightbox.find('.lightbox-item'), | | 131 | current = items.filter('.current'), | | 132 | next = current.next(); | | 133 |  | | 134 | if (next.length == 0) { | | 135 | next = items.first(); | | 136 | } | | 137 |  | | 138 | next.css({ | | 139 | left: '150vw', | | 140 | opacity: 1 | | 141 | }); | | 142 | current.animate({ | | 143 | left: '-100vw' | | 144 | }, 300, *function* () { | | 145 | $(this).removeClass('current'); | | 146 | }); | | 147 | next.animate({ | | 148 | left: '50%' | | 149 | }, 300, *function* () { | | 150 | items | | 151 | .removeClass('current') | | 152 | .css({ | | 153 | opacity: '', | | 154 | left: '' | | 155 | }); | | 156 | $(this).addClass('current'); | | 157 | }); | | 158 | } | |  |

history.js

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  | | --- | --- | | 1 | *function* fillHistory(*cont*, *history*) { | | 2 | for (*var* page in history) { | | 3 | cont.append( | | 4 | $('<tr></tr>').append( | | 5 | $('<td></td>').append( | | 6 | $('<a></a>') | | 7 | .attr('href', page) | | 8 | .text(page) | | 9 | ), | | 10 | $('<td></td>') | | 11 | .text(history[page]) | | 12 | ) | | 13 | ); | | 14 | } | | 15 | } | | 16 |  | | 17 | *function* modal(*text*, *yes*, *no*) { | | 18 | $(*document*.body).append( | | 19 | $('<div></div>') | | 20 | .attr('id', 'modal') | | 21 | .append( | | 22 | $('<div></div>') | | 23 | .addClass('modal-wrap') | | 24 | .append($('<div></div>') | | 25 | .addClass('modal-text') | | 26 | .text(text), | | 27 | $('<button></button>') | | 28 | .addClass('btn btn-danger') | | 29 | .text('Да') | | 30 | .on('click', *function* (*e*) { | | 31 | e.preventDefault(); | | 32 | $('#modal').remove(); | | 33 | $(*document*.body).removeClass('modal-body'); | | 34 | yes(); | | 35 | }), | | 36 | $('<button></button>') | | 37 | .addClass('btn btn-default') | | 38 | .text('Нет') | | 39 | .on('click', *function* (*e*) { | | 40 | e.preventDefault(); | | 41 | $('#modal').remove(); | | 42 | $(*document*.body).removeClass('modal-body'); | | 43 | no(); | | 44 | }) | | 45 | ) | | 46 | ) | | 47 | ).addClass('modal-overlay'); | | 48 | } | | 49 |  | | 50 | $(*document*).ready(*function* () { | | 51 | fillHistory($('#history-local'), localGet('visits', {})); | | 52 | fillHistory($('#history-cookies'), getCookie('visits')); | | 53 | $('#history-clear').on('click', *function* (*e*) { | | 54 | e.preventDefault(); | | 55 | modal('Вы уверены, что хотите очистить историю?', *function* () { | | 56 | localSet('visits', {}); | | 57 | setCookie('visits', {}); | | 58 | location.reload(); | | 59 | }, *function* () { | | 60 | *console*.log('Страшно видимо') | | 61 | }) | | 62 | }) | | 63 | }); | |  |

contact.js

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  | | --- | --- | | 1 | *function* validate() { | | 2 | *var* valid\_global = validate\_form(*document*.form\_\_contact), | | 3 | valid\_specific = validate\_contacts(*document*.form\_\_contact); | | 4 | *document*.form\_\_contact.submit.disabled = valid\_global || valid\_specific; | | 5 | } | | 6 |  | | 7 | *function* validate\_contacts(*form*) { | | 8 | *var* validates = [ | | 9 | validate\_field(form.name, /^[\wа-яё]+\s+[\wа-яё]+\s\*[\wа-яё]\*$/i, 'Введите в формате: Фамилия Имя Отчество'), | | 10 | validate\_field(form.tel, /^\+?(?:380(\d){9}|7\s\*\(?\d{3}\)?\s\*(?:-?\d){7})$/i, 'Допустимы действительные номера +7 и +380'), | | 11 | validate\_field(form.email, /^.+@.+\..+$/i, 'Введите действительную почту') | | 12 | ]; | | 13 | for (*var* i = 0; i < validates.length; i++) { | | 14 | if (validates[i]) { | | 15 | return true; | | 16 | } | | 17 | } | | 18 | return false; | | 19 | } | | 20 |  | | 21 | *function* initValidation() { | | 22 | *var* form = *document*.form\_\_contact, | | 23 | $form = $(form), | | 24 | inputs = $form.find('input'), | | 25 | selects = $form.find('select'); | | 26 |  | | 27 | inputs.on('change', validate); | | 28 | inputs.filter(':not([type="checkbox"]):not([type="radio"])') | | 29 | .on('keyup', validate); | | 30 | selects.on('change', validate); | | 31 | } | | 32 |  | | 33 | *var* popover\_timer; | | 34 | *function* popover\_open() { | | 35 | $('#tip').remove(); | | 36 | clearTimeout(popover\_timer); | | 37 | *var* tip = $('<div></div>') | | 38 | .attr('id', 'tip') | | 39 | .text($(this).data('tip')) | | 40 | .css('display', 'none'); | | 41 | $(this).parent().append(tip); | | 42 | tip.slideDown(100); | | 43 | } | | 44 |  | | 45 | $(*document*).ready(*function* () { | | 46 | initValidation(); | | 47 | $('[data-tip]') | | 48 | .on('mouseenter', popover\_open) | | 49 | .on('mouseleave', *function* () { | | 50 | popover\_timer = setTimeout(*function* () { | | 51 | *var* tip = $('#tip'); | | 52 | tip.slideUp(*function* () { | | 53 | tip.remove(); | | 54 | }); | | 55 | }, 1000); | | 56 | }); | | 57 | }); | |  |

ВЫВОДЫ

В ходе лабораторной работы были повторены возможности программирования на клиентской стороне с использованием библиотеки jQuery, в частности, обработка форм, модификация содержимого страницы и создание эффектов анимации.