# Solutions-Lab: Asynchronous Programming

## 1.Github Commits

function loadCommits() {

$('#commits').empty();

const baseUrl = 'https://api.github.com/repos/';

let username = $('#username').val();

let repo = $('#repo').val();

let url = baseUrl + username + '/' + repo + '/commits';

$.get(url)

.then(displayCommits)

.catch(displayError);

function displayCommits(commits) {

for (let commit of commits) {

let $li = $('<li>');

$li.text(commit.commit.author.name + ': ' + commit.commit.message);

$('#commits').append($li);

//$('#commits').append($('<li>').text(commit.commit.author.name + ': ' + commit.commit.message));

}

}

function displayError(error) {

$('#commits').append($('<li>').text('Error: ' + error.status + ' (' + error.statusText + ')'));

}

}

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Github Commits</title>

<script src="https://code.jquery.com/jquery-3.1.1.min.js"></script>

<style>

@import url(https://fonts.googleapis.com/css?family=Open+Sans);

body {

font-family: "Open Sans", serif;

}

input[type=text] {

padding: 5px 10px;

margin: 8px 0;

display: inline-block;

border: 1px solid #ccc;

border-radius: 4px;

}

button {

background-color: #4caf50;

color: white;

padding: 10px 14px;

margin: 8px 0;

border: none;

border-radius: 4px;

cursor: pointer;

}

</style>

</head>

<body>

GitHub username:

<input type="text" id="username" value="nakov" /> <br>

Repo: <input type="text" id="repo" value="nakov.io.cin" />

<button onclick="loadCommits()">Load Commits</button>

<ul id="commits"></ul>

<script>

function loadCommits() {

$('#commits').empty();

const baseUrl = 'https://api.github.com/repos/';

let username = $('#username').val();

let repo = $('#repo').val();

let url = baseUrl + username + '/' + repo + '/commits';

$.get(url)

.then(displayCommits)

.catch(displayError);

function displayCommits(commits) {

for (let commit of commits) {

let $li = $('<li>');

$li.text(commit.commit.author.name + ': ' + commit.commit.message);

$('#commits').append($li);

//$('#commits').append($('<li>').text(commit.commit.author.name + ': ' + commit.commit.message));

}

}

function displayError(error) {

$('#commits').append($('<li>').text('Error: ' + error.status + ' (' + error.statusText + ')'));

}

}

</script>

</body>

</html>

## 2.Blog

function attachEvents(){

//const kinveyAppId = "kid\_S1htVfcmm";

//const kinveyAppId = "kid\_B1KyOfAZe";

const kinveyAppId = "kid\_H1y9kL-\_N";

const serviceUrl = "https://baas.kinvey.com/appdata/" + kinveyAppId;

const kinveyUsername = "peter";

const kinveyPassword = "p";

const base64auth = btoa(kinveyUsername + ":" + kinveyPassword);

const authHeaders = {"Authorization": "Basic " + base64auth};

$('#btnLoadPosts').click(loadPostsClick);

$('#btnViewPost').click(viewPostClick);

function loadPostsClick(){

let loadPostRequest = {

url: serviceUrl + "/posts",

headers: authHeaders

};

$.ajax(loadPostRequest)

.then(displayPosts)

.catch(displayError);

}

function displayPosts(posts){

let $posts = $('#posts');

$posts.empty();

for (let post of posts){

let $optionPost = $('<option>').val(post.\_id).text(post.title);

$posts.append($optionPost);

}

}

function displayError(error){

let $divError = $('<div>').text('Error: ' + error.status + ' (' + error.statusText + ')');

$(document.body).prepend($divError);

setTimeout(function(){

$($divError).fadeOut(function(){

$($divError).remove;

});

}, 3000);

}

function viewPostClick(){

let selectedPostId = $('#posts').val();

if (!selectedPostId){

return;

}

let requestPosts = $.ajax({

url: serviceUrl + '/posts/' + selectedPostId,

headers: authHeaders

});

let requestComments = $.ajax({

url: serviceUrl + `/comments/?query={"post\_id":"${selectedPostId}"}`,

headers: authHeaders

});

Promise.all([requestPosts, requestComments])

.then(displayPostWithComments)

.catch(displayError);

}

function displayPostWithComments([post, comments]){

let $h1postTitle = $('#post-title');

let $ulPostBody = $('#post-body');

let $ulPostComments = $('#post-comments');

$h1postTitle.text(post.title);

$ulPostBody.text(post.body);

$ulPostComments.empty();

for (let comment of comments){

let $li = $('<li>').text(comment.text);

$ulPostComments.append($li);

}

}

}

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>Blog</title>

<script src="https://code.jquery.com/jquery-3.1.1.min.js"></script>

<style>

@import url(https://fonts.googleapis.com/css?family=Open+Sans);

body {

font-family: 'Open Sans', serif;

}

select {

padding: 10px 15px;

margin: 8px 0;

display: inline-block;

border: 1px solid #ccc;

border-radius: 4px;

}

button {

background-color: #4CAF50;

color: white;

padding: 10px 15px;

margin: 8px 0;

border: none;

border-radius: 4px;

cursor: pointer;

}

</style>

</head>

<body>

<h1>All Posts</h1>

<button id="btnLoadPosts">Load Posts</button>

<select id="posts"></select>

<button id="btnViewPost">View</button>

<h1 id="post-title">Post Details</h1>

<ul id="post-body"></ul>

<h2>Comments</h2>

<ul id="post-comments"></ul>

<script src="02Blog.js"></script>

<script>

attachEvents();

</script>

</body>

</html>

|  |
| --- |
| function attachEvents() { |
|  | const kinveyAppId = "kid\_B1KyOfAZe"; |
|  | const serviceUrl = "https://baas.kinvey.com/appdata/" + kinveyAppId; |
|  | const kinveyUsername = "peter"; |
|  | const kinveyPassword = "p"; |
|  | const base64auth = btoa(kinveyUsername + ":" + kinveyPassword); |
|  | const authHeaders = { "Authorization":"Basic " + base64auth}; |
|  | $('#btnLoadPosts').click(loadPostsClick); |
|  | $('#btnViewPost').click(viewPostClick); |
|  |  |
|  | function loadPostsClick() { |
|  | let loadPostsRequest = { |
|  | url: serviceUrl + "/posts", |
|  | headers: authHeaders |
|  | }; |
|  |  |
|  | $.ajax(loadPostsRequest) |
|  | .then(displayPosts) |
|  | .catch(displayError); |
|  |  |
|  | function displayPosts(posts) { |
|  | $('#posts').empty(); |
|  |  |
|  | for(let post of posts){ |
|  | $('#posts').append($('<option>').text(post.title).val(post.\_id)); |
|  | } |
|  | } |
|  | } |
|  |  |
|  | function displayError(err) { |
|  | let errorDiv = $("<div>").text("Error: " + err.status + ' (' + err.statusText + ')'); |
|  | $(document.body).prepend(errorDiv); |
|  |  |
|  | setTimeout(function() { |
|  | $(errorDiv).fadeOut(function() { |
|  | $(errorDiv).remove(); |
|  | }); |
|  | }, 3000); |
|  | } |
|  |  |
|  | function viewPostClick() { |
|  | let selectedPostId = $('#posts').val(); |
|  | if(! selectedPostId){ |
|  | return; |
|  | } |
|  |  |
|  | let requestPosts = $.ajax({ |
|  | url: serviceUrl + "/posts/" + selectedPostId, |
|  | headers: authHeaders |
|  | }); |
|  |  |
|  | let requestComments = $.ajax({ |
|  | url: serviceUrl + `/comments/?query={"post\_id":"${selectedPostId}"}`, |
|  | headers: authHeaders |
|  | }); |
|  |  |
|  | Promise.all([requestPosts, requestComments]) |
|  | .then(displayPostWithComments) |
|  | .catch(displayError); |
|  |  |
|  | function displayPostWithComments([post, comments]) { |
|  | $('#post-title').text(post.title); |
|  | $('#post-body').text(post.body); |
|  | $('#post-comments').empty(); |
|  |  |
|  | for(let comment of comments){ |
|  |  |
|  | $('#post-comments').append($('<li>').text(comment.text)); |
|  | } |
|  | } |
|  | } |
|  | } |

|  |
| --- |
| <!DOCTYPE html> |
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|  | <head> |
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|  | <ul id="post-body"></ul> |
|  | <h2>Comments</h2> |
|  | <ul id="post-comments"></ul> |
|  | <script src="blog.js"></script> |
|  | <script> |
|  | attachEvents(); |
|  | </script> |
|  | </body> |
|  | </html> |