Ministerul Educației Tineretului și Sportului Universitatea Tehnică a Moldovei Catedra Tehnologii Informaționale

Raport

La lucrarea de laborator nr.4 la Medii interactive de dezvoltare a produselor soft

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A verificat: lector asistent: Cojanu Irina

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Tema: Web development

Scopul lucrarii:

- Realizarea unui simplu Web Site personal
- Familiarizarea cu HTML si CSS
- Interactiuni Javascript

Laboratory Requirements:

Advanced Level (nota 9 || 10):

- Site-ul trebuie sa contina AJAX Requests.
- Implimentarea XHR sau JSON responses. Careva din informatie trebuie sa fie dinamic incarcata pe pagina.

Exemplu de cerere asincrona catre server pentru a face schimb de informatie referetiror la faptul daca sunt mesaje noi, datele fiind transmise in formatul JSON:

```
function fetchNewMessages() {
        var httpRequest = new XMLHttpRequest();
        httpRequest.onreadystatechange = function () {
            if (httpRequest.readyState == 4 && httpRequest.status == 200) {
                var messageList = JSON.parse(httpRequest.responseText);
                appendFreshMessagesToTheDOM (messageList);
        };
        var lastMessageId = document.getElementById("lastMessageId").value;
        var topicId = document.getElementById("topicId").value;
        var request = { "lastMessageId" : lastMessageId, "topicId" : topicId
};
        httpRequest.open("POST", "fetchNewMessagesHandler.php", true);
        httpRequest.setRequestHeader("Content-Type",
                  "application/x-www-form-urlencoded");
        httpRequest.send("messageMetaData=" + JSON.stringify(request));
    }
```

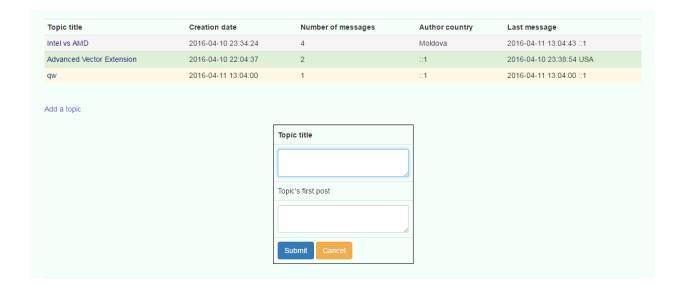
Screenshoot-uri:

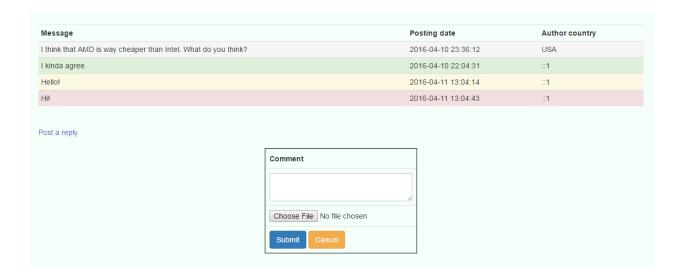
		Home About	
Category name	Number of topics	Number of messages	Last message
Hardware	2	5	2016-04-11 13:04:14 ::1
Software	1	1	2016-04-10 23:39:31 USA
Education	1	3	2016-04-11 13:04:58 ::1
Music	1	1	2016-04-10 23:42:13 Moldova
Cinema	1	1	2016-04-10 23:43:39 Germany
Literature	1	1	2016-04-10 23:44:50 Germany
Open source	1	1	2016-04-10 23:45:46 Germany
Games	1	1	2016-04-10 23:46:32 Germany
Sport	1	1	2016-04-10 23:47:12 Germany
Science	1	1	2016-04-10 23:48:04 Germany
Auto	1	1	2016-04-10 23:49:04 Macedonia
Technology	1	1	2016-04-10 23:49:41 Macedonia
Comics	1	1	2016-04-10 23:50:15 Macedonia

Topic title	Creation date	Number of messages	Author country	Last message
Intel vs AMD	2016-04-10 23:34:24	4	Moldova	2016-04-11 13:04:43 ::1
Advanced Vector Extension	2016-04-10 22:04:37	2	::1	2016-04-10 23:38:54 USA
qw	2016-04-11 13:04:00	1	::1	2016-04-11 13:04:00 ::1

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Concluzii

In urma efectuarii acestei lucrari de laborator au fost obtinute deprinderi practice de creare a unei aplicatii web, folosind asa tehnologii ca PHP, JavaScript si SQL. Am studiat cum putem face schimb de informatie cu serverul in background, fara a face refresh la pagina, datele fiind transmise in formatul JSON. De asemenea au fost obtinute cunostinte de folosire a bazelor de date relationale, si interactionarea

cu aceste date folosind limbajul SQL. Pentru a face aplicatia scalabila si usor de inteles, am folosit patternul MVC pentru separarea responsabilitatilor a aplicatiei.