# Exercise: HTTP and AJAX

Submit your solutions in the SoftUni judge system at:

<https://judge.softuni.org/Contests/3799/HTTP-and-AJAX-Exercise>

**Working with Remote Data**

For the solution of some of the following tasks, you will need to use an up-to-date version of the **local REST service**, provided in the lesson’s resources archive. You can [read the documentation here](https://github.com/softuni-practice-server/softuni-practice-server).

## Requirements

For each task, you need to install all dependencies using the "**npm install**" command.

Then you can start the front-end application with the “**npm start**” command

You also must also start the **server.js** file in the server folder using the “**node server.js**” command in another console **(BOTH THE CLIENT AND THE SERVER MUST RUN AT THE SAME TIME)**

At any point, you can open up another console and run "**npm test**" inside the **tests subfolder** for the problem to test the **current state** of your application, it’s preferable for **all of your tests to pass locally** before you submit them to the judge platform, like this:

Text

Description automatically generated

## Blog

Write a program for reading blog content. It needs to make **requests** to the **server** and display **all blog posts** and their **comments**.  
Request URL’s:

Posts - **http://localhost:3030/jsonstore/blog/posts**

Comments - **http://localhost:3030/jsonstore/blog/comments**

The button with ID "**btnLoadPosts**" should make a GET request to "**/posts**". The **response** from the **server** will be an **Object of objects.**

Each object will be in the following format:

{

body: {postBody},

id: {postId},

title: {postTitle}

}

Create an <option> for each post using its object key as value and current object title property as text inside the node with ID "**posts**".





When the button with ID "**btnViewPost**" is clicked, a GET request should be made to:

* "**/comments/:id**" to obtain the selected post (from the dropdown menu with ID "**posts**") - The following **request** will return **a single object** as described above.
* "**/comments -** to obtain all comments. The request will **return** a **Object** of **objects**.



Each object will be in the following format:

{

id: {commentId},

postId: {postId},

text: {commentText}

}

You have to find this comments that are for the current post (check the postId property)

Display the post title inside **h1** with ID "**post-title**" and the post content inside **p** with ID "**post-body**". Display **each comment** as a **<li>** inside **ul** with ID "**post-comments**". Do not forget to clear its content beforehand.





### Submitting Your Solution

Place in a **ZIP** file the content of the given resources including your solution. Exclude the node\_modules folder if there is one. Upload the archive to Judge.



Картина, която съдържа текст

Описанието е генерирано автоматично

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## Messenger

Write a JS program that records and displays messages. The user can post a message, supplying a name and content and retrieve all currently recorded messages.

**The url** for the requests - **http://localhost:3030/jsonstore/messenger**

When [**Send**] **button** is clicked you should create a **new** **object** and send a **post** **request** to the given url. Use the following message structure:

{

author: authorName,

content: msgText,

}

If you click over [**Refresh**] **button** you should **get all** messages with **GET** **request** and display them into the textarea. Use the following message format:  
"**{author}: {message}**"

### Examples





## Phonebook

Write a JS program that can load, create and delete entries from a Phonebook. You will be given an HTML template to which you must bind the needed functionality.

When the [Load] button is clicked, a GET request should be made to the server to get all phonebook entries. Each received entry should be in a li inside the ul with id="phonebook" in the following format with text "<person>: <phone> " and a [Delete] button attached. Pressing the [Delete] button should send a DELETE request to the server and delete the entry. The received response will be an object in the following format:  
{<key>:{person:<person>, phone:<phone>}, <key2>:{person:<person2>, phone:<phone2>,…} where <key> is an unique key given by the server and <person> and <phone> are the actual values.

When the [Create] button is clicked, a new POST request should be made to the server with the information from the Person and Phone textboxes, the Person and Phone textboxes should be cleared and the Phonebook should be automatically reloaded (like if the [Load] button was pressed).

The data sent on a POST request should be a valid JSON object, containing properties person and phone. Example format:   
**{**

**"person": "<person>",**

**"phone": "<phone>"**

**}**

The url to which your program should make requests is:

**http://localhost:3030/jsonstore/phonebook**

* GET and POST requests should go to http://localhost:3030/jsonstore/phonebook, while
* DELETE requests should go to http://localhost:3030/jsonstore/phonebook/:key> , where :key is the unique key of the entry (you can find out the key from the key property in the GET request)

### Screenshots:



## Students

Your task is to implement functionality for creating and listing students from a database. Create a new collection called "**students**",

Each student has:

* firstName - string, non-empty
* lastName - string, non-empty
* facultyNumber - string of numbers, non-empty
* grade - number, non-empty

You need to write functionality for creating students. When creating a new student, make sure you name the properties accordingly.

You will also need to extract students. You will be given an HTML template with a table in it. Create an AJAX request that extracts all the students.

URL for this task: **http://localhost:3030/jsonstore/collections/students**

**Screenshots**



## Locked Profile

In this problem, you must **create a JS program** which **shows** and **hides** the additional information about users, which you can find by making a GET request to the server at address:

http://localhost:3030/jsonstore/advanced/profiles

The response will be an object with the information for all users. Create a profile card for every user and display it on the web page. Every item should have the following structure:





When one of the [**Show more**] **buttons** is clicked, the **hiden information** inside the div should be shown, only if **the profile is not locked**! If the current profile is **locked,** nothing should happen.



If the **hidden information is displayed** and we **lock** **the profile again**, the [**Hide it**] button should **not be working**! Otherwise, when the profile is **unlocked** and we click on the **[Hide it]** button, the new fields must hide again.

## Accordion

An **html** file is given and your task is to show **more**/**less** information for the selected article. At the start you should do a **GET** request to the server at adress: **http://localhost:3030/jsonstore/advanced/articles/list** where the response will be an object with the titles of the articles.

By clicking the **[More] button** for the selected **article**, it should **reveal** the content of a **hidden** div and **changes** the text of the button to **[Less]**. Obtain the content by making a **GET** request to the server at adress: **http://localhost:3030/jsonstore/advanced/articles/details/:id** where the response will be an object with property **id**, **title**, **content.** When the same button is clicked **again** (now reading **Less**), **hide** the div and **change** the text of the button to **More**. Link action should be **toggleable** (you should be able to click the button infinite amount of times).

**Example** 



Every item should have the **following structure**:



You are allowed to add new attributes, but do not change the existing ones.