Hello,

This file is containing basic projects proposition used to see your basic coding and design skills in C# and / or JavaScript.

The requirements of those exercises are voluntarily not accurate enough. The goal is to see how you would react and which path you would chose in those situation.

The quality of the code is the main measurement.

Please only pick one of them.

The expected completion time is

2 days if this file was sent over the week end

3 days if this file was sent from Monday to Thursday

Please send back your project via mail (or shared file link if too big)

All references and libraries have to be included, projects that can’t compile won’t be considered.

# Mini project : Real time chat

Technology : JavaScript (for the clients), Any language for the server.

Can you implement a real time (multi-client) chat application running in any browser in the list :

IE8, IE9, IE10, IE11

Opera (latest)

Firefox (latest)

Chrome (latest)

No mobile device requirement.

The GUI is not part of the requirement, the focus is on the architecture.

# Mini project : File display benchmark

Technology : JavaScript (for the clients), Any language for the server.

Can you implement a page which display an image (about 200 kb) not resized client side.

And display the different time values available (time to download the picture, time to display it, time to send it server side, etc....)

Display the benchmark value after displaying 100 times this image.

The GUI is not part of the requirement, the focus is on the accuracy of the result, and the technic used to optimize image display.

# Design of a centralized dashboard

Technology : JavaScript or C# for the client, Any language for the server.

Can you implement an application displaying some dashboard like information about a web server

CPU, memory, W3Wp process request queues, requests average process time, number of connected users ...

The focus is on the GUI (even with fake data).

The focus is also on how to retrieve / store and send data from the webserver to the dashboards. This part can be documented rather than implemented

# Implementation of a picture box control in C#

Technology : C#.

Can you implement a user control in C# (Any version) that has similar functionality to the native .NET Picture Box control?

At the minimum there should be a property called “Image”, which is the image that the control displays.

public Image Image { get; set; }

# Hiding the javascript file on the server

Technology : C#

Can you implement a website in C#, which contains functional JavaScript files (the function does not matter).

When the server is deployed the JavaScript files are stored as part of the server dll, they are not plain “js” files in any of the folders of the server.

The JavaScript file are sent minified to the browsers.