**Display system**

Need to build a display system that can present different types of information on a split screen view. The screen is divided into multiple areas, each showing a different module of information.

The layout can be changed between multiple predefined options, like (as an example):

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 |  | 2 | |  | 1 | 2 |
| 1 | 3 |
| 3 |
| 4 | 4 |

In each area on the layout a different module can be displayed.

There are multiple types of modules supported, like (just as example):

1. Loading an external URL
2. News ticker – taking the messages from a DB
3. Presentation\movie
4. Etc.

The system has two parts:

1. Admin console – a system to control the layout, the content of each region (what module to load in each), and for each module the configuration of it.
2. The display page – the one actually showing the information. Can be hundreds of such displays.

The idea is that the display system will load once a ‘master page’ and will not have to refresh ever by a user. When the admin changes the configuration, the display will automatically change accordingly (can have few seconds delay).

Now, this is time for you to show your own:

1. Design
2. Creativity
3. Implementation
4. ….

Note: This exercise is not defined into the small details by purpose – it is for you to show your innovation and good ideas!

Guidelines:

1. First think on a design. The design has to be efficient in terms of load on the server.
2. Implement the DB
3. Provide a system that is working in efficient way
4. Last, if you have time – adjust to look nice. (more important to have a working and effective system than to have neat JS modules)
5. If there are some ideas you have for enhancements that you did not had time to implement – write down a short description of what you wanted to do.