

Web Development
EuroSkills 2023 National Competition
HUNGARY
Round 1

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Introduction

You've been working as a freelance web developer, but now you've applied for a developer position at a large software development company. The company management wants to test your skills, so as part of your recruitment, you've been asked to develop a website and a simple web tool. The purpose of the website is to promote a one-day pop festival in Budapest called "PopFest in the Castle" where different artists/bands will perform.

Description of project and tasks

Your task is divided into three phases.

1. In the first part you are expected to develop a one-page website for a client. The client wants to have a Minimum Viable Product (MVP) of the website as a first iteration. This can be deployed on a server and made available to the public to learn how the first users interact with it. Once this MVP is released, development on further content of the website can continue.
2. In the second part you have to develop the second iteration of the website which acts as the Minimum Marketable Product (MMP).
3. In the third part you have to develop an interactive tool to help organizers arrange VIP seatings.

How to submit your work

1. You have to share your work in a private GitHub repo as described in the README file of the test project GitHub repo (<https://github.com/skillsithu/es2023-s17-hu-r1>), and publish the final work using the Netlify service.
2. The three parts mentioned above must be made available via the relative URLs part1, part2 and part3 within the published site. So, for example, if your site is available at <https://winniedepooh2023.netlify.app>, the URL of part2 should be <https://winniedepooh2023.netlify.app/part2>.
3. Create an index.html file in the root of your site, containing at least one link to each of the three subpages (the appearance of this page will not be evaluated)

Part 1

For the MVP, the client wants a simple landing page that engages users to get interested in the pop festival and check back when the full website with all information is available.

- The client's vision for the landing page is that the website uses exactly the full width and height of the browser so there is no empty space and also no scrolling needed.
- Some kind of media should also be used to attract users.
- Additionally, the following information must be visible:
 - Name of the event: **PopFest in the Castle**
 - Date of the event: **30.05.2022**
 - Location of the festival: **Buda Castle**
 - Date when the full website with all the information will be available: **19.03.2022**
- You must place four social media icons (Facebook, Instagram, Pinterest, Tumblr) at the bottom of the page.
 - The icons must have special hover effect.
 - The effects should match the sample video, but you can change the duration of the effect.
 - Only HTML and CSS can be used for this task, JavaScript is not allowed.
 - The icons do not need to point to a valid URL.
 - You can find all the necessary files in the mediafiles/social-icon-task folder.
- You are free to add any other information and elements that you think are useful.
- The website should be responsive and support at least the following viewports:
 - Mobile: 360x640
 - Tablet: 768x1024
 - Desktop: 1920x1080

Part 2

The MVP from Part 1 should now get extended to contain all available information and sections the client wants. To make sure the users recognise the website, the landing page from Part 1 has to be still part of it. All additional sections have to be placed below on the same page and it has to be clear to the user that they can scroll down to see more. The navigation menu can also be placed over the existing landing page section.

The following additional sections are required:

- A navigation menu with links to all the other sections

- The concert schedule
- Purchase tickets button (it does not have to point to a valid URL, the client will update it on their own)
- At least one testimonial from a visitor from last year
- Frequently asked questions

Texts for the sections are provided within the mediafiles folder.

The website should be fully responsive and should have the same viewports as in Part 1.

Part 3

In this part, you have to create an interactive tool to help organizers arrange VIP seating of the festival.

The following sections should appear in the page:

- File loading area
- VIP Seats Sorting Area
- Full screen button
- Exporting

The purpose of the tool is to allow adding, removing, and swapping VIP names in a grid.

The company is expected to use the appropriate Web APIs (<https://developer.mozilla.org/en-US/docs/Web/API>) to fulfil this part whenever possible.

VIP Seats Sorting Area

The grid has 8x4 name boxes (8 columns, 4 rows). As this tool is only used by organisers, a spectacular design is not expected. However, the interface should be well structured and easy to use.

VIP grid box areas should not include vertical or horizontal scroll bars.

VIP Swapping

The names of VIPs are displayed in the grid view of the VIP area. The user can rearrange their position by swapping any two of them by drag and drop. For example, if the current order is A, B, C and the user drags A and drops it to C, the order is updated to C, B, A.

It is also possible to swap a name with an empty position.

Load a List of VIPs

There are 3 ways to load a list of VIPs:

1. Loading the cache stored from the last session.
2. Loading a sample VIP grid.
3. Loading external files from dropping area.

In addition, the names in each box can be edited manually.

Loading the cache stored from the last session

The tool should save a copy as cache locally in the web browser that is persistent even when the browser tab is closed. The save happens whenever a change is made to the grid.

When the web page is loaded, the tool should check if there is a cache stored locally, and load the cached list at startup.

Loading a sample VIP grid

By clicking on a “Load Sample” button, the user can load a sample VIP grid.

The VIP names are pre-defined and no dynamic changes are needed. The pre-defined names are:

- Andrew
- Robert
- Steve

When constructing the grid, the names from the list are placed from top left in the grid to the bottom right, from left to right, then from top to bottom. For example:

Andrew	Robert	Steve					

Loading external files from dropping area

- The user is able to drag an external file containing a list of names of VIPs into the tool, by dropping into the file dropping area.
- When the file is dragged over the dropping area, an indicator and a line of text hint is displayed to let the user know this is the area to drop the plain text file. The tool should construct the VIP grid once the file is dropped.

- Import text format
 - The external file to load follows the same format that is exported from this tool. The format is:
 - The first line is the title, with # VIP List. The second line is empty. From the 3rd line and the rest, each line is the name of VIP, with a hyphen and space in front of it.
 - Please refer to the exporting section.

All loaded VIP names should be draggable and swappable by the same rule as above.

Able to take the VIP sorting area into full-screen

In order to allow better focus on the VIP list, and for the user to present the VIP list in meetings, we need a function to toggle fullscreen mode of the VIP sorting area.

- There should be a toggle button, when the user clicks on it, the VIP sorting area should show in full screen.
- During active full screen mode, only the following elements are visible:
 - The VIP drag-and-drop working area
 - A button to exit fullscreen
- All other elements should be invisible during full screen. The web browser UI and system UI is invisible too.
- During full-screen, when the user clicks the exit fullscreen button, or presses the ESC key on the keyboard, the full screen ends and the browser returns to the normal web page view.

Exporting the VIP list

The final list can be viewed in a plain text view, in markdown format.

- The first line is the title, with # VIP List.
- The second line is empty.
- From the 3rd line and the rest, each line is the name of VIP, with a hyphen and space in front of it.
- If there are empty boxes between VIPs, they are exported as hyphen without a name.

Example:

```
# VIP List
```

```
- Name 1
```

- Name 2
-
- Name 3
- Name 4
- The plain text VIP list is displayed in a textarea.
- There are two ways to export this data:
 - copying to clipboard
 - saving to disk.
- Copying to Clipboard
 - When the user clicks on the copy-to-clipboard button, the VIP names from the grid are copied into the clipboard.
 - The copied text has the same format of the exported VIP list.
- Downloading as a plain text file
 - When user clicks on the download button, the web browser triggers a download of a plain text file with the name list as the content.
 - The filename should be “vip-list.txt”.

Additional information

- Some media, icons and text have been provided for you in the media files. You are free to use these, but you can also create your own, as long as the website is still fit for purpose. **You should not use any other media files (e.g. downloaded videos, images, icons, etc.).**
- **You are also not allowed to use any CSS, Javascript framework or library (Bootstrap, jQuery, React, etc.)** However, you may use CSS preprocessors during development.
- Clean code and user interface accessibility are also important considerations.
 - Please use semantic elements in HTML files wherever possible.
 - Provide the necessary amount of comments in your HTML, CSS and JS files.
 - Check accessibility using the Axe browser extension.
- The client wants to support the two most used browsers: Google Chrome and Firefox.