Web Technologies
WorldSkills 2024 National Competition
HUNGARY
Round 1

Submitted by:
Skills IT

Contents

Introduction

You used to work as a freelance web developer, but now you've applied for a job as a developer at a large software development company. The company's management wants to test your skills, so as part of the recruitment process, they asked you to develop a prototype web application for the Ultra Balaton Running Festival. In addition to sharing up-to-date information about the running festival, the future web application aims to provide an easy-to-use tool for the running teams to distribute the stages.

In the prototype, all you need to develop is an attractive landing page and a simplified version of the stage calculator.

Description of project and tasks

Your task is divided into two parts.

1. 1.In the first part, you have to create a one-page landing page for the groups who applied in team category. On the page we will share some basic information about the interactive stage calculator.
2. 2. In the second part, you will develop a simplified version of the stage calculator.

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/ws2024-s17-hu-r1), and publish the final work using the Netlify service.
2. The second part mentioned above must be made available via a relative URLs `calculator` within the published site. So, for example, if your site is available at https://winniedepooh2024.netlify.app, the URL of part2 should be https://winniedepooh2024.netlify.app/calculator.

Part 1 – Landing Page

For the landing page, you need to create a simple but attractive landing page.

- the website uses exactly the full width and height of the browser, so there's no empty space and no scrolling.
- Some form of media should also be used to attract users.
- In addition, the following information should be visible:

- headline: ULTRABALATON
- subtitle: team competition
- Event date: 06.05.2023

- Short text describing the section calculator. (You can find the text in the media files.)
- A button with a link to the section calculator.
- Four social media icons (Facebook, Instagram, Pinterest, Tumblr) should be placed at the bottom of the page.
  - Icons must not point to a valid URL.
  - All required files can be found in the mediafiles/social-icon-task folder.
- - Feel free to add any other information and elements you find useful.
- - The website must be responsive and support at least the following viewports:
  - Mobile: 360x640
  - Tablet: 768x1024
  - Desktop: 1920x1080

Part 2 – Route Assignment Calculator

In this section, you need to create an interactive tool to help teams allocate each part of the route.

The following parts should appear in the page:

- Team member table
- Route planning table
- Button with link to the landing page

You need to fetch the basic information for the calculator from a public REST API endpoint. (If for some reason you can't do this, you can use the routes.json file in the media files as a workaround.)

The calculator tool in this prototype version does not need to be responsive, the evaluation is done on a full HD desktop display.

However, in desktop view, it should be well designed, elegant and easy to use. The look and feel should match the style of the landing page.

Team Member Table

The Team member table must be created using flexbox technology. The table contains the following fields:

- line number (automatically filed with line numbers)
- first name
- last name
- speed (estimated time to run one km in MM:SS format)
- total distance (calculated value, number rounded to one decimal place, sum of the distances undertaken by the runner, see later)

The table has a header row with the title of the fields and 10 rows for the data. Any field other than the number and total distance fields can be freely edited. Initially, the table is empty.

Route Assignment Table

The Team member table must be also created using flexbox technology. The table contains the following fields:

- line number
- distance (in km)
- starting point
- arriving point
- name (sponsored name the part of the route)
- runner (name of the runner)
- time (the time needed for the runner to complete the distance in MM:SS format)

All basic data except the runner and time fields are provided by the following public REST API endpoint:

https://ub2023-team.valami.com/api/v1/routes

If the request is successful, the endpoint returns the following data structure in JSON format:

```
[
	{
		id: number,
		distance: number,
		startingLocation: string,
		arrivalLocation: string,
		routePartName: string
	}
]
```

The runner field allows you to select a runner from a drop-down list. The first item in the list is always "No runners yet". The other items contain the names, in alphabetical order, of the runners who have already been recorded in the Runner table.

If a runner is selected in this way, the time field is automatically calculated based on the distance field and the runner's speed.

At the same time, the total distance field in the runner's row in the Runners table is updated (in all cases it should contain the total length of the distance the runner has run).

Additional expectations

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.

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

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 prepocessors 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.