



Recruitment test for Software Developer

HTML / CSS

Create a simple page using HTML and CSS based on attached graphical design (*assets/project.png*) and assets, according to the below requirements:

- Use Source Sans Pro font:
<https://fonts.google.com/specimen/Source+Sans+Pro?selection.family=Source+Sans+Pro>
- Photo and building name should be linked with the offer (you can use “#”)
- The offer highlights on hover (e.g. Immobile K3 on graphical project)
- Icons should change color on hover (to #e30613):



- Bonus points for responsive design

JS / PHP

Write JS or PHP function returning the average of provided numbers. The function enables default number of arguments. Example: *average(2,6)*, *average(2,3,4,4,1)*, *average()*.

MySQL

1. There are two tables in one database:

employees (id, first_name, salary, department_id)

departments (id, name)

Build the SQL queries that will return:

- Names of the people with highest salary in each of departments (*columns: department, first_name, salary*)
- Number of people working in each department (*columns: department, number of employees*)

2. There is a table in the database:

countries (name, region, area, population)

name	region	area	population
Afghanistan	South Asia	652225	26000000
Albania	Europe	28728	3200000
Algeria	Middle East	2400000	32900000

Build the SQL queries that will return:

- List of the countries with highest population in each region (*columns: region, country, population*)
- List of regions with total area and number of countries in the region (*columns: region, area, number of countries*)