Test Project

Web Technologies

WorldSkills 2021 national competiton HUNGARY

1. round

Submitted by:

Skills IT

Contents

Introduction to Test Project

You are hired for Skills IT Management Ltd. to implement a web page for their next building project called Shanghai Park. They are a company that build apartment houses in Budapest and Wien. The company has hired a designer to design the prototype of the website. Your task is to implement the website by following the style guide and designed prototype.

According to the audience research, there are 2 types of website visitors. They are the potential buyer who would like to check the flats and real buyer who already contracted to the company for buying a flat. There are several components that we must present in the web page. The prototype indicates where each component appears on the page in desktop view and mobile view.

You have to create the webpage according to the provided design using your HTML5/CSS3/JavaScript skills. You can use in your solution

- all the images provided in the `media_files\images folder`
- font files in the `media_files\fonts` folder
- Bootstrap 4 (`media_files\assets`)
- Font Awsome icons (`media_files\assets`)

No other frameworks / tools allowed. You have to use vanilla JavaScript (jQurey is also not allowed, it is only for Bootstrap 4 in this project.) ES6/ES7 features supported by Chrome can be used.

Description of Tasks

The layout is divided by a 768px breakpoint.

We call **Mobile view** when the width is below 768px. We call it **Desktop view** when the viewport has more than 768px width.

The provided design shows how the elements fluidly layout on mobile and large screen. Please find the design files in the media files

You can find the full resolution in `Shanghai_Park_Design_Desktop.png` and `Shanghai_Park_Design_Mobile.png` in the provided media files.

Please note that the layout should respond to the screen dimension. You should not use adaptive design in your grid system.

Misc Style guide

Color

The design use the following basic color palette:

- Shanghai Green: #5dd782
- Shanghai Green Dark: #49b56a
- Shanghai Green Light: #67ee90
- Shanghai Gray: #333333
- Shanghai Gray Light: #eeeeee
- Shanghai White: #ffffff

They are used throughout the web design.

Font Family

Font family is `arial-narrow`, which you can find in the media files.

Content Information

The page contains:

- ☐ The header with navigation
- ☐ Banner
- ☐ 6 sections of content
- ☐ The footer area.

Header and Navigation

Implement the header according the design below. (Language buttons are inactive)
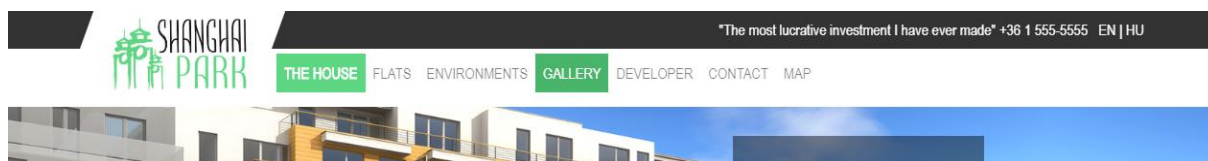
The header navigation has the following content:

- ☐ The House
- ☐ Flats
- ☐ Environment
- ☐ Gallery
- ☐ Contact
- ☐ Map

The menu items should be shown according to the following requirements:

- All menu items' background: Shanghai white; color: Shanghai grey
- Active menu item's background: Shanghai green; color: Shanghai white
- Hover: Shanghai green dark; color: Shanghai white

There is transition on the hover of the menu items.

Desktop view:

Mobile view:

You must use hamburger menu with the same elements above.

- All menu items - background: Shanghai White; color: Shanghai Grey
- Active menu items: Shanghai Green; color: Shanghai White

Banner Area

The banner area has a decorative background image (`shanghai_park_main.png`). The banner is full width. It should be fixed under the header and use parallax effect when you scroll down.

Display "Homes for live" slogan by text (do not modify the image). Use `clearlight` font for the slogan. You can find this font in the media files.

Details of 6 Sections of Content

There are 6 sections of content in the main area. They are:

☐ The House
☐ Flats
☐ Environment
☐ Gallery
☐ Contact
☐ Map

The title of each section should be displayed in the same style:

- color: Shanghai green,
- font size: 34px

Implement all sections according to the design.

1. The House

The Apartment Building section contains the description of the project and a photo of the building.

2. Flats

The background color is Shanghai Gray. The button background color is Shanghai Green Dark, the color is Shanghai White. There is no hover effect but the background color should be change to Shanghai Green Light when the user click on the button.

After clicking a modal window will appear which enables the user to get the details of the available flats. For the detailed requirements for this function see the **Flat selection** section later in this document.

3. Environment

Background: Shanghai gray light:

This block displays a text (left, 40%) and a photo (right 60%). There is a small triangle on the left hand side of the photo. Implement it with css.

4. Gallery

There are 12 images in the gallery.

Desktop view:

All image must appear almost in black and white but the original colors should be shown slightly.

Hover effect must be animated: the images should become bigger first (105%) then they should return to their original size. The original colors should appear in the same time.

When you click on one of the pictures the image must appear in bigger size in a modal window.

Mobile view:

All images must appear at the same full width size.

5. Contact

You have to implement a contact form.

There is no server-side implementation yet but when the user clicks on the "Send the message" the form must disappear and a short message should display on the same place: "*Dear <Firstname>! Thank you for your message*". We will contact you as soon as possible."

6. Map

It is an offline map collection with 3 images (`shanghai_park_map-.png`, `shanghai_park_map.png`, `shanghai_park_map+.png`). The images can be replaced by + / – buttons to simulate a real zoom effect. – button should be inactive when `shanghai_park_map-.png` displays and + button should be inactive when `shanghai_park_map+.png` displays. Font color of inactive buttons is Shanghai gray light.

Footer

Implement the footer according to the design.

There are 12 images in the gallery. All image appears almost in black and white but the original colors should be shown slightly.

Flat selection

Details of the available flats should be display in a table. (See Flats section above!).

- The data source of the table is available in the `shanghai_park_flats.json` file. The table should be ordered by each field and contain only the flats of the selected floor.

- There is an image of the apartment building on the top of the window (`shanghai_park_building.png`).
- There is a table under the image which shows the details of the flats of the selected floor. In the beginning floor 0 flats must be shown. Table fields:
  - Flat number
  - Number of rooms
  - Netto Area (in m2)
  - Brutto Area (in m2)
  - Orientation
  - Price (in EUR)
- If you move the mouse on the building, a transparent Shanghai Green block shows which floor you are on. There is a box on the top right corner of the window which also displays the selected floor in text. You can click on one of the floors to select it. The table will shows the flats of that floor.
  Note: if you cannot implement this solution for selection you can use a dropdown list for the same purpose.
- The table design must suit to the overall design.

Assessment

- The project will be assessed using the latest stable version of Google Chrome.

- HTML and CSS will be assessed using W3C validators.

- No CSS syntax errors are allowed. But validator errors and warnings on unknown properties are allowed.