Test Instructions:
This test consists of a web page with a header, container, and footer.
You will be required to write HTML, CSS, and JavaScript code to implement the required functionality for each section.
You can use any JavaScript libraries or frameworks that you are familiar with, but you must not copy code from any external sources.
You are encouraged to use comments to explain your code.
Make sure that your code passes all the unit tests before submitting your solution.

Section 1: HTML
In this section, you need to write HTML code for the IKEA registration form. The form should contain the following fields:

First name (required)
Last name (required)
Gender(required)
Date of birth (required)
Email address (required)
Password (required)
Confirm password (required)
Address line 1 (required)
Address line 2 (optional)
City (required)
State/Province (required)
Postal code (required)
Country (required)
Mobile number (required)
Checkout to accept terms and conditions (required)

Section 2: CSS
In this section, you need to write CSS code to style the IKEA registration form. You should style the form to make it look modern and user-friendly.

Section 3: JavaScript
In this section, you need to write JavaScript code to implement the required validation for the IKEA registration form.

A valid first name and last name should satisfy the following conditions:

It should not be an empty string.
It should contain only alphabetical characters.
A valid email address should satisfy the following conditions:

It should not be an empty string.
It should contain an "@" character followed by "gmail.com".
The email should be in the correct format, such as "john.doe@gmail.com".
A valid password should satisfy the following conditions:

It should not be an empty string.
It should be at least 8 characters long.
It should contain at least one uppercase letter, one lowercase letter, and one number.
A valid address should satisfy the following conditions:

Address line 1 should not be an empty string.
City, State/Province, and Country fields should not be empty.
Postal code should be valid, as determined by the validatePostalCode function.
A valid mobile number should satisfy the following conditions:

It should contain exactly 10 digits.
The first digit should not be zero.
A valid checkout should satisfy the following conditions:

The user must agree to the terms and conditions.

Section 4: Additional Validation
In this section, you need to suggest additional validation for the IKEA registration form.

Some possible additional validation checks could include:

Validating the format of the address line 2 field, if it is provided.
Validating the format of the city, state/province, and country fields.
Validating the format of the mobile number field, based on the country selected.
Checking the strength of the password, and providing feedback to the user if it is weak.
Checking the availability of the email address, to prevent duplicate accounts.