НАЦІОНАЛЬНИЙ ТЕХНІЧНИЙ УНІВЕРСИТЕТ УКРАЇНИ «КИЇВСЬКИЙ ПОЛІТЕХНІЧНИЙ ІНСТИТУТ імені Ігоря Сікорського»

ФАКУЛЬТЕТ ПРИКЛАДНОЇ МАТЕМАТИКИ

**Кафедра системного програмування та спеціалізованих комп’ютерних систем**

**Лабораторна робота №1**

з дисципліни **WEB-дизайн**

*на тему: “Розробка статичного інтерфейсу Web-додатка”*

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Київ – 2022

**Мета:** ознайомитись із засобами мов HTML5 та CSS3 та навчитись застосовувати бібліотеки Twitter Bootstrap/Material UI щодо швидкої побудови Web-інтерфейсу користувача.

**Загальне завдання:** розробити статичні Web-сторінки додатку та перевірити коректне їх відображення на екранах різного розміру.

**Інструменти розробки:** мови HTML5, CSS3, фреймворки Twitter Bootstrap або Material UI.

**Github:** https://github.com/dentegza/Web-Design

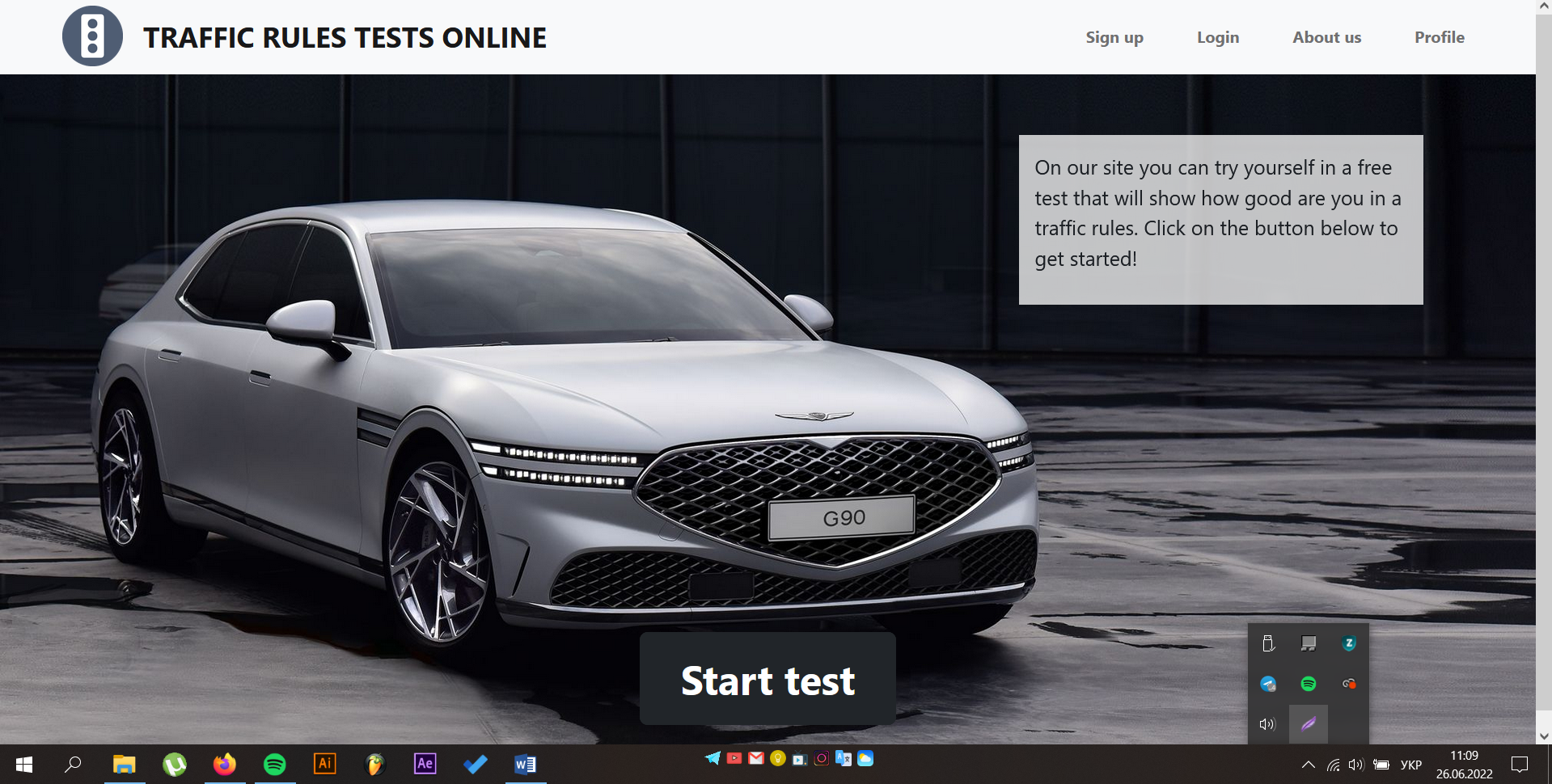
**Telegram:** @dntgz

**Сайт “Traffic Rules Test Online”**

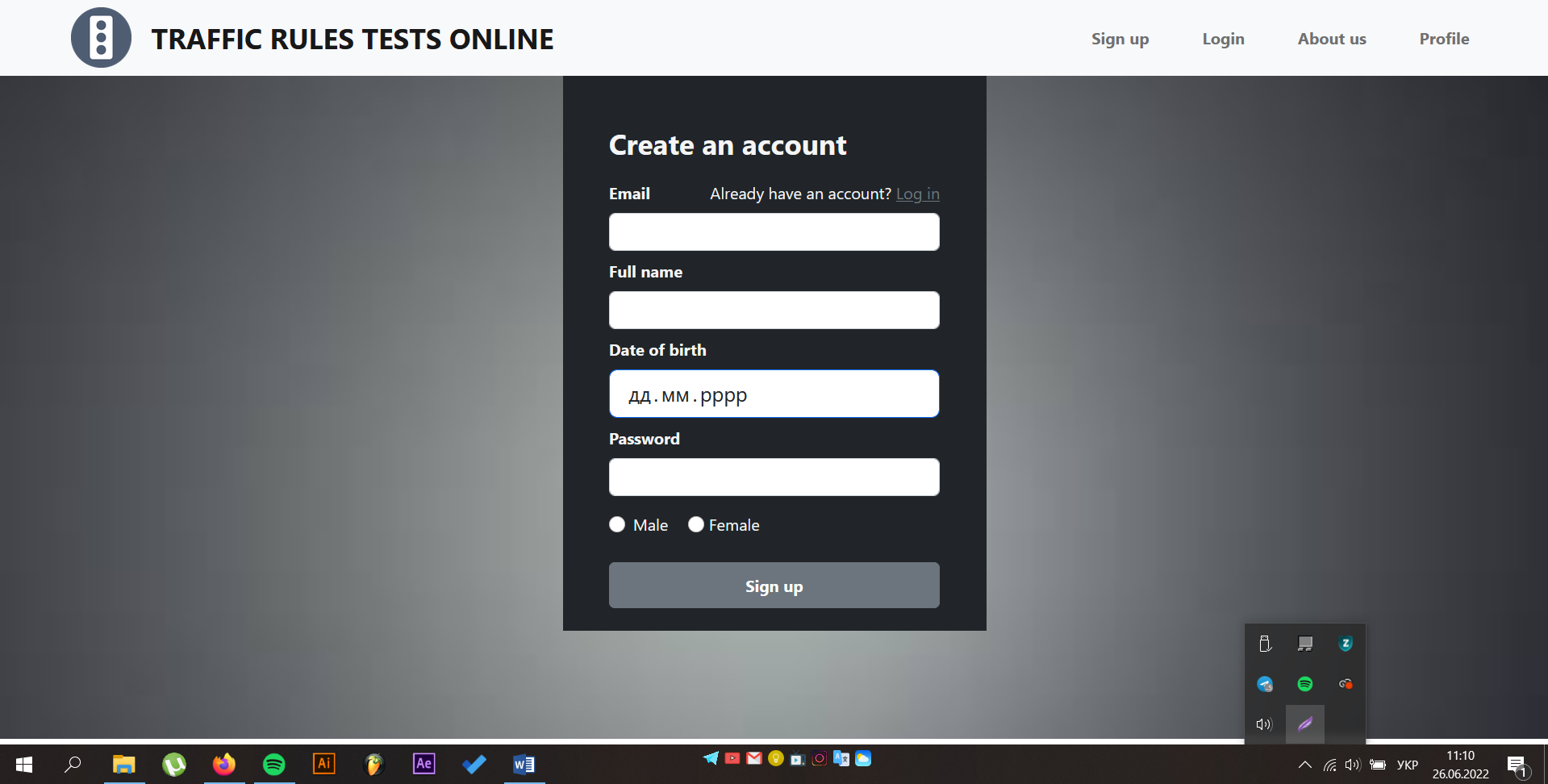
    Заданий Web-додаток створений за допомогою HTML, CSS та Twitter Bootstrap для перевірки знань дорожнього руху. На сайті розміщений базовий набір сторінок, для легкого та інтуїтивного функціонування додатку: головна сторінка (About Us), реєстрація профілю користувача (Sign Up), вхід до акаунту (Login), профіль користувача (Profile), сам тест (Test).

    На кожну з заданих сторінок можна перейти з різної сторінки за допомогою навігаційного меню, яке є на всіх сторінках окрім реєстрації та входу. Також, заданий веб-сайт адаптивний до будь-яких розмірів екрану.

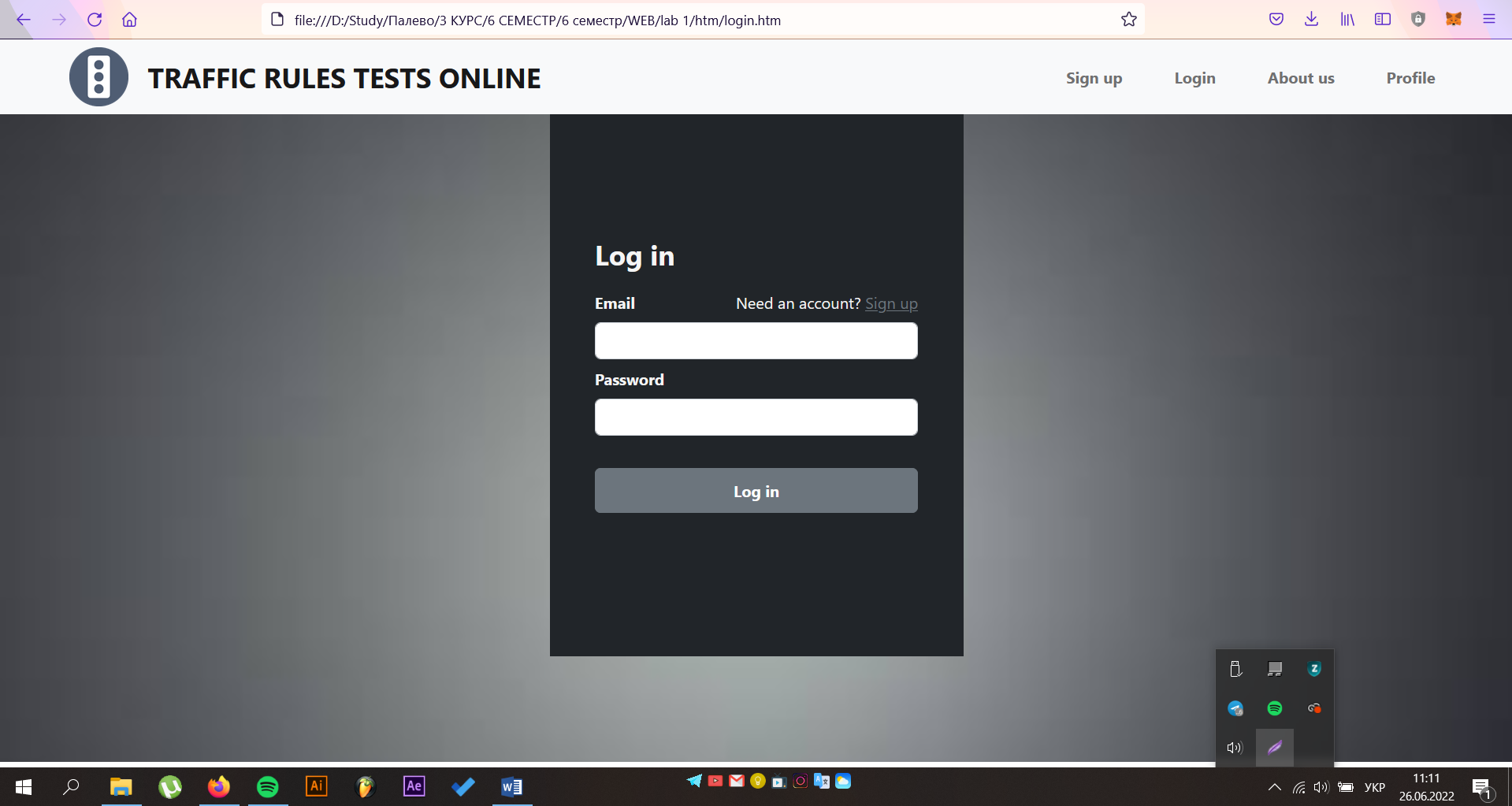
**Результати роботи**



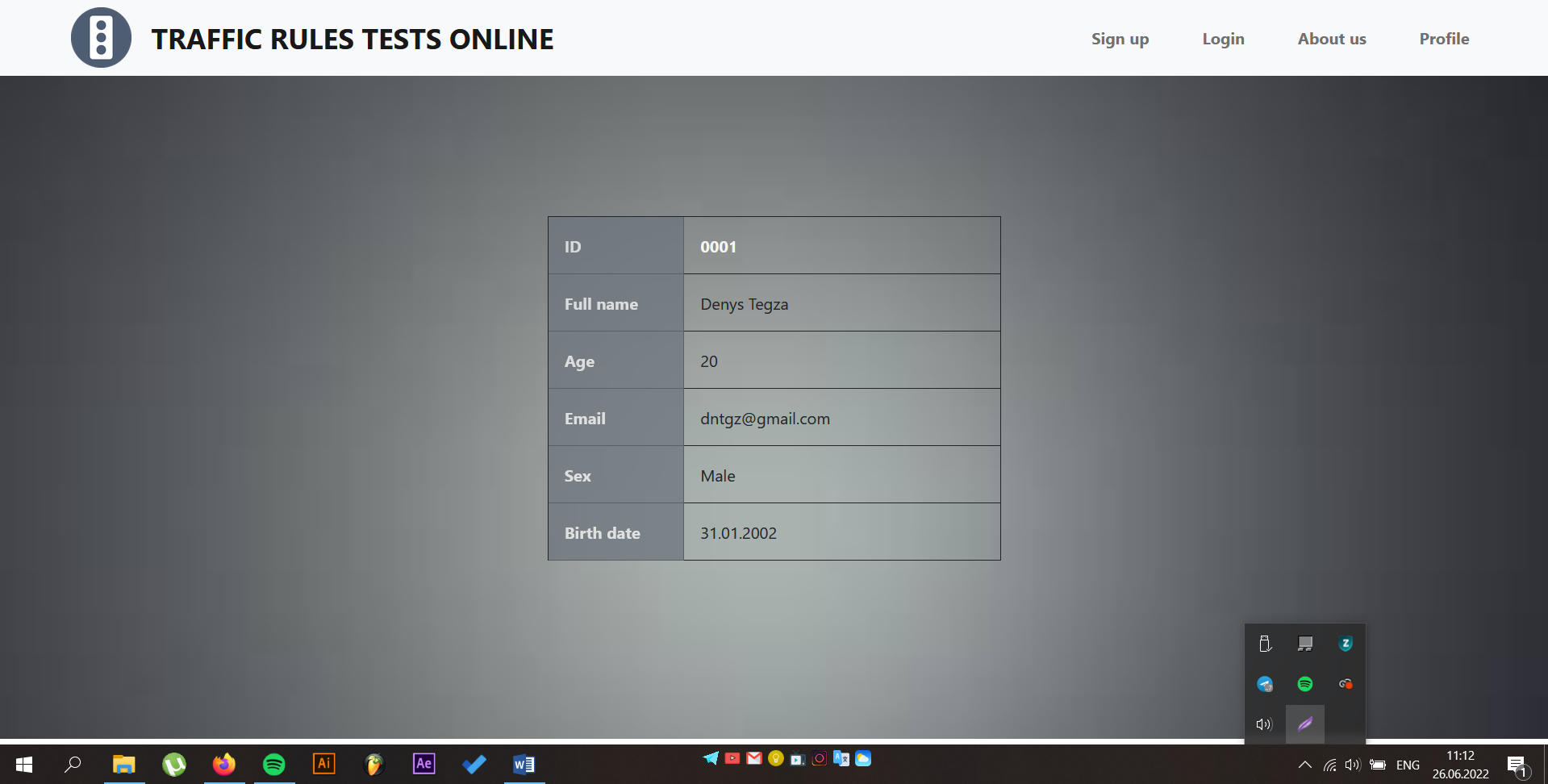
Головна сторінка (About Us)



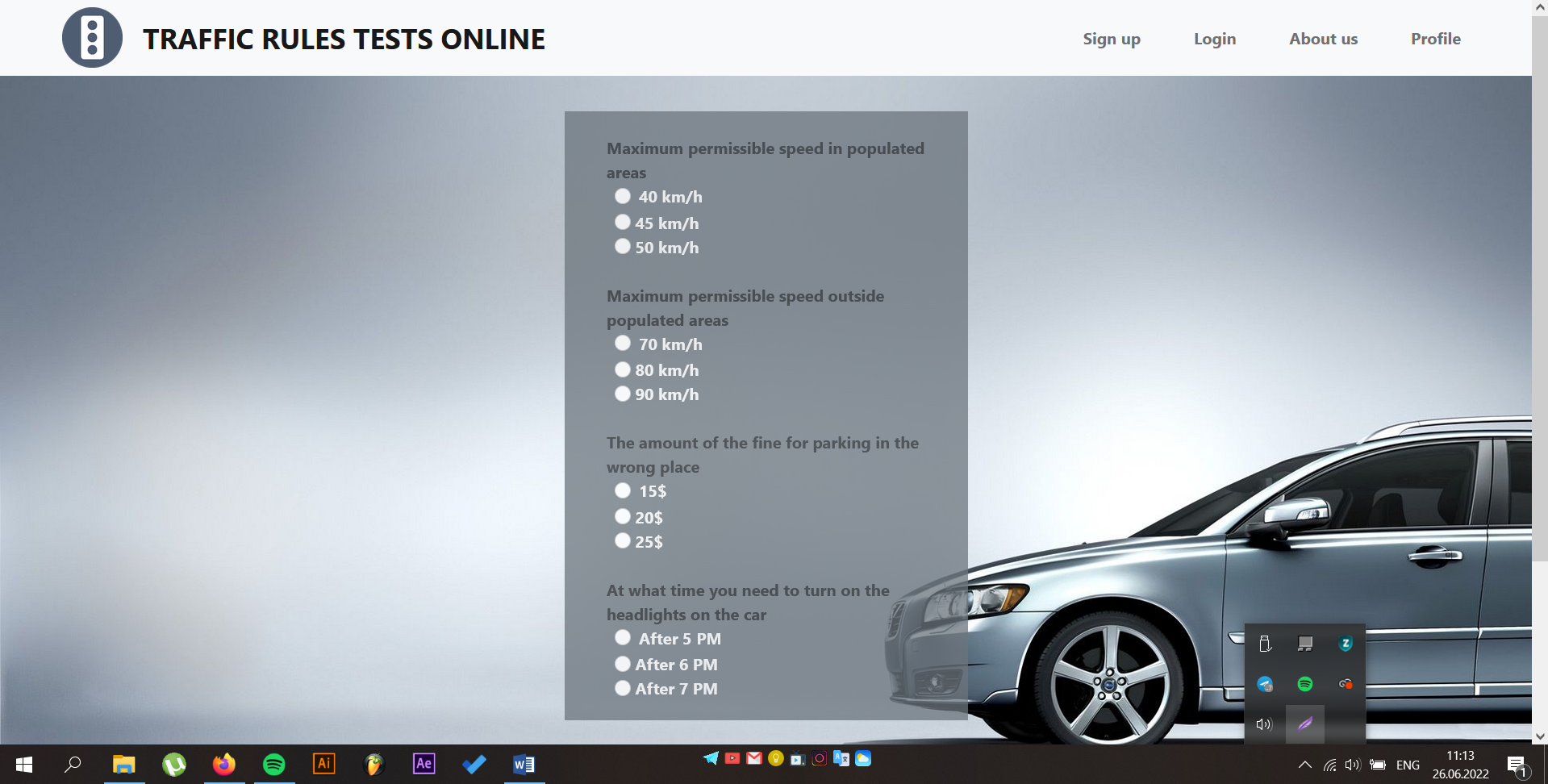
Сторінка реєстрації користувача (Sign Up)



Сторінка входу до профілю (Log In)

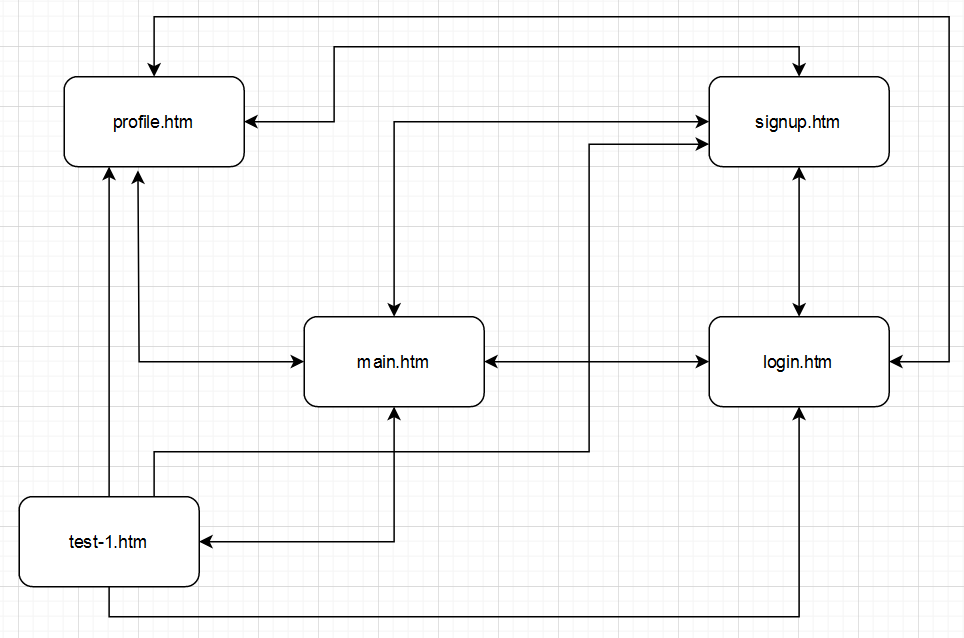


Сторінка профілю (Profile)



Сторінка тестування (Test)

**Схема переходів між сторінками сайту**



**Код програми**

**Main.htm**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-0evHe/X+R7YkIZDRvuzKMRqM+OrBnVFBL6DOitfPri4tjfHxaWutUpFmBp4vmVor" crossorigin="anonymous">

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-beta1/dist/js/bootstrap.bundle.min.js" integrity="sha384-pprn3073KE6tl6bjs2QrFaJGz5/SUsLqktiwsUTF55Jfv3qYSDhgCecCxMW52nD2" crossorigin="anonymous"></script>

<title>Discverio</title>

</head>

<body>

<header class="d-block sticky-top bg-light container-fluid" style="z-index: 2;">

<div class="container" style="max-width: 1420px;">

<nav class="navbar navbar-expand-lg fw-bold">

<div class="d-flex align-items-center">

<a href="main.htm" class="nav-brand m-0" ><img src="../img/logo.png" style="height: 60px;"></a>

<a href="main.htm" class="navbar-brand text-uppercase fs-3 fw-bold p-0" style="margin-left: 20px;">traffic rules tests online</a>

</div>

<button class="navbar-toggler align-items-center" type="button" data-bs-toggle="collapse" data-bs-target="#navbarToggle">

<span class="navbar-toggler-icon"></span>

</button>

<div class="collapse navbar-collapse" id="navbarToggle">

<ul class="navbar-nav table-hover fw-bold" style="margin-left: auto;">

<li style="padding-left: 35px"><a href="signup.htm" class="nav-link btn">Sign up</a></li>

<li style="padding-left: 35px"><a href="login.htm" class="nav-link btn">Login</a></li>

<li style="padding-left: 35px"><a href="main.htm" class="nav-link btn">About us</a></li>

</li>

<li style="padding-left: 35px"><a href="profile.htm" class="nav-link btn">Profile</a></li>

</ul>

</div>

</nav>

</div> <!--container-->

</header>

<main style="height: 92vh; background: url(https://hips.hearstapps.com/hmg-prod.s3.amazonaws.com/images/2634-genesisunveilsg90exteriorimages-1638281750.jpg) no-repeat; background-size: cover;">

<div class="container">

<div class="bg-white opacity-75 float-end p-3" style="margin-top: 60px; width: 400px;">

<p class="fs-5">On our site you can try yourself in a free test that will show how good are you in a traffic rules. Click on the button below to get started!</p>

</div>

</div> <!--container-->

<div class="position-absolute container-fluid d-flex justify-content-center" style="top: 85%;">

<a href="test-1.htm" class="btn btn-dark fs-1 fw-bold rounded-3 " style="padding: 15px 40px; color: white">Start test</a>

</div>

</main>

</body>

</html>

**Profile.htm**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-0evHe/X+R7YkIZDRvuzKMRqM+OrBnVFBL6DOitfPri4tjfHxaWutUpFmBp4vmVor" crossorigin="anonymous">

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-beta1/dist/js/bootstrap.bundle.min.js" integrity="sha384-pprn3073KE6tl6bjs2QrFaJGz5/SUsLqktiwsUTF55Jfv3qYSDhgCecCxMW52nD2" crossorigin="anonymous"></script>

<title>Profile</title>

</head>

<body>

<header class="d-block sticky-top bg-light container-fluid" style="z-index: 2;">

<div class="container" style="max-width: 1420px;">

<nav class="navbar navbar-expand-lg fw-bold">

<div class="d-flex align-items-center">

<a href="main.htm" class="nav-brand m-0" ><img src="../img/logo.png" style="height: 60px;"></a>

<a href="main.htm" class="navbar-brand text-uppercase fs-3 fw-bold p-0" style="margin-left: 20px;">traffic rules tests online</a>

</div>

<button class="navbar-toggler align-items-center" type="button" data-bs-toggle="collapse" data-bs-target="#navbarToggle">

<span class="navbar-toggler-icon"></span>

</button>

<div class="collapse navbar-collapse" id="navbarToggle">

<ul class="navbar-nav table-hover fw-bold" style="margin-left: auto;">

<li style="padding-left: 35px"><a href="signup.htm" class="nav-link btn">Sign up</a></li>

<li style="padding-left: 35px"><a href="login.htm" class="nav-link btn">Login</a></li>

<li style="padding-left: 35px"><a href="main.htm" class="nav-link btn">About us</a></li>

</li>

<li style="padding-left: 35px"><a href="profile.htm" class="nav-link btn">Profile</a></li>

</ul>

</div>

</nav>

</div> <!--container-->

</header>

<main style="height: 89vh; background: url(data:image/jpeg;base64,) no-repeat; background-size: cover;">

<div class="container d-flex justify-content-center">

<table class="table mt-3 position-absolute table-bordered border border-1 border-dark" style="top: 27%; max-width: 450px;">

<thead class="border-dark" style="color: whitesmoke;">

<tr>

<th style="width: 30%" scope="col" class="bg-secondary opacity-75 p-3" style="color: whitesmoke;">ID</th>

<th scope="col" class="p-3">0001</th>

</tr>

</thead>

<tbody>

<tr>

<th scope="col" class="bg-secondary opacity-75 p-3" style="color: whitesmoke;">Full name</th>

<td class="p-3">Denys Tegza</td>

</tr>

<tr>

<th scope="col" class="bg-secondary opacity-75 p-3" style="color: whitesmoke;">Age</th>

<td class="p-3">20</td>

</tr>

<tr>

<th scope="col" class="bg-secondary opacity-75 p-3" style="color: whitesmoke;">Email</th>

<td class="p-3">dntgz@gmail.com</td>

</tr>

<tr>

<th scope="col" class="bg-secondary opacity-75 p-3" style="color: whitesmoke;">Sex</th>

<td class="p-3">Male</td>

</tr>

<tr>

<th scope="col" class="bg-secondary opacity-75 p-3" style="color: whitesmoke;">Birth date</th>

<td class="p-3">31.01.2002</td>

</tr>

</tbody>

</table>

</div> <!--container-->

</main>

</body>

</html>

**Signup.htm**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-0evHe/X+R7YkIZDRvuzKMRqM+OrBnVFBL6DOitfPri4tjfHxaWutUpFmBp4vmVor" crossorigin="anonymous">

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-beta1/dist/js/bootstrap.bundle.min.js" integrity="sha384-pprn3073KE6tl6bjs2QrFaJGz5/SUsLqktiwsUTF55Jfv3qYSDhgCecCxMW52nD2" crossorigin="anonymous"></script>

<title>Sign up</title>

</head>

<body>

<header class="d-block sticky-top bg-light container-fluid" style="z-index: 2;">

<div class="container" style="max-width: 1420px;">

<nav class="navbar navbar-expand-lg fw-bold">

<div class="d-flex align-items-center">

<a href="main.htm" class="nav-brand m-0" ><img src="../img/logo.png" style="height: 60px;"></a>

<a href="main.htm" class="navbar-brand text-uppercase fs-3 fw-bold p-0" style="margin-left: 20px;">traffic rules tests online</a>

</div>

<button class="navbar-toggler align-items-center" type="button" data-bs-toggle="collapse" data-bs-target="#navbarToggle">

<span class="navbar-toggler-icon"></span>

</button>

<div class="collapse navbar-collapse" id="navbarToggle">

<ul class="navbar-nav table-hover fw-bold" style="margin-left: auto;">

<li style="padding-left: 35px"><a href="signup.htm" class="nav-link btn">Sign up</a></li>

<li style="padding-left: 35px"><a href="login.htm" class="nav-link btn">Login</a></li>

<li style="padding-left: 35px"><a href="main.htm" class="nav-link btn">About us</a></li>

</li>

<li style="padding-left: 35px"><a href="profile.htm" class="nav-link btn">Profile</a></li>

</ul>

</div>

</nav>

</div> <!--container-->

</header>

<main>

<div class="container-fluid d-flex justify-content-center" style="height: 89vh; background: url(data:image/jpeg;base64,) no-repeat; background-size: cover;">

<div class="border border-dark bg-dark" style="height: 550px; padding: 45px; width: 420px;">

<div class="fs-3 fw-bold d-flex text-left mb-3" style="color: whitesmoke;">Create an account</div>

<div>

<div class="mb-2" style="color: whitesmoke;">

<label for="InputEmail" class="form-label fw-bold">Email</label>

<span class="float-end">Already have an account? <a href="login.htm" class="link-secondary">Log in</a></span>

<input type="email" class="form-control" id="InputEmail" aria-describedby="emailHelp">

</div>

<div class="mb-2" style="color: whitesmoke;">

<label for="fname" class="form-label fw-bold">Full name</label>

<input type="text" class="form-control" id="fname">

</div>

<div class="mb-2" style="color: whitesmoke;">

<label for="lname" class="form-label fw-bold">Date of birth</label>

<input type="date" class="form-control form-control-lg border-primary" required>

</div>

<div class="mb-3" style="color: whitesmoke;">

<label for="InputPassword" class="form-label fw-bold">Password</label>

<input type="password" class="form-control" id="InputPassword">

</div>

<div class="d-inline-flex mb-4" style="color: whitesmoke;">

<div class="form-check" style="padding-right: 20px">

<input class="form-check-input" type="radio" name="flexRadioDefault" id="flexRadioDefault1">

<label class="form-check-label" for="flexRadioDefault1">

Male

</label>

</div>

<div>

<input class="form-check-input" type="radio" name="flexRadioDefault" id="flexRadioDefault2">

<label class="form-check-label" for="flexRadioDefault2">

Female

</label>

</div>

</div>

</div>

<div class="text-center">

<a href="#" class="btn btn-secondary fw-bold" style="padding: 10px 0; width: 100%;">Sign up</a>

</div>

</div>

</div> <!--container-->

</main>

</body>

</html>

**Login.htm**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-0evHe/X+R7YkIZDRvuzKMRqM+OrBnVFBL6DOitfPri4tjfHxaWutUpFmBp4vmVor" crossorigin="anonymous">

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-beta1/dist/js/bootstrap.bundle.min.js" integrity="sha384-pprn3073KE6tl6bjs2QrFaJGz5/SUsLqktiwsUTF55Jfv3qYSDhgCecCxMW52nD2" crossorigin="anonymous"></script>

<title>Login</title>

</head>

<body>

<header class="d-block sticky-top bg-light container-fluid" style="z-index: 2;">

<div class="container" style="max-width: 1420px;">

<nav class="navbar navbar-expand-lg fw-bold">

<div class="d-flex align-items-center">

<a href="main.htm" class="nav-brand m-0" ><img src="../img/logo.png" style="height: 60px;"></a>

<a href="main.htm" class="navbar-brand text-uppercase fs-3 fw-bold p-0" style="margin-left: 20px;">traffic rules tests online</a>

</div>

<button class="navbar-toggler align-items-center" type="button" data-bs-toggle="collapse" data-bs-target="#navbarToggle">

<span class="navbar-toggler-icon"></span>

</button>

<div class="collapse navbar-collapse" id="navbarToggle">

<ul class="navbar-nav table-hover fw-bold" style="margin-left: auto;">

<li style="padding-left: 35px"><a href="signup.htm" class="nav-link btn">Sign up</a></li>

<li style="padding-left: 35px"><a href="login.htm" class="nav-link btn">Login</a></li>

<li style="padding-left: 35px"><a href="main.htm" class="nav-link btn">About us</a></li>

</li>

<li style="padding-left: 35px"><a href="profile.htm" class="nav-link btn">Profile</a></li>

</ul>

</div>

</nav>

</div> <!--container-->

</header>

<main>

<div class="container-fluid d-flex justify-content-center" style="height: 89vh; background: url(data:image/jpeg;base64,) no-repeat; background-size: cover;">

<div class="border border-dark bg-dark" style="height: 550px; padding: 45px; width: 420px; padding-top: 120px;">

<div class="fs-3 fw-bold d-flex text-left mb-3" style="color: whitesmoke;">Log in</div>

<div>

<div class="mb-2" style="color: whitesmoke;">

<label for="exampleInputEmail1" class="form-label fw-bold">Email</label>

<span class="float-end">Need an account? <a href="signup.htm" class="link-secondary">Sign up</a></span>

<input type="email" class="form-control" id="exampleInputEmail1" aria-describedby="emailHelp">

</div>

<div class="mb-2" style="color: whitesmoke;">

<label for="exampleInputPassword1" class="form-label fw-bold">Password</label>

<input type="password" class="form-control" id="exampleInputPassword1">

</div>

</div>

<div class="text-center">

<a href="#" class="btn btn-secondary fw-bold" style="padding: 10px 0; width: 100%; margin-top: 25px;">Log in</a>

</div>

</div>

</div> <!--container-->

</main>

</body>

</html>

**Test-1.htm**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-beta1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-0evHe/X+R7YkIZDRvuzKMRqM+OrBnVFBL6DOitfPri4tjfHxaWutUpFmBp4vmVor" crossorigin="anonymous">

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-beta1/dist/js/bootstrap.bundle.min.js" integrity="sha384-pprn3073KE6tl6bjs2QrFaJGz5/SUsLqktiwsUTF55Jfv3qYSDhgCecCxMW52nD2" crossorigin="anonymous"></script>

<title>Test (1 part)</title>

</head>

<body>

<header class="d-block sticky-top bg-light container-fluid" style="z-index: 2;">

<div class="container" style="max-width: 1420px;">

<nav class="navbar navbar-expand-lg fw-bold">

<div class="d-flex align-items-center">

<a href="main.htm" class="nav-brand m-0" ><img src="../img/logo.png" style="height: 60px;"></a>

<a href="main.htm" class="navbar-brand text-uppercase fs-3 fw-bold p-0" style="margin-left: 20px;">traffic rules tests online</a>

</div>

<button class="navbar-toggler align-items-center" type="button" data-bs-toggle="collapse" data-bs-target="#navbarToggle">

<span class="navbar-toggler-icon"></span>

</button>

<div class="collapse navbar-collapse" id="navbarToggle">

<ul class="navbar-nav table-hover fw-bold" style="margin-left: auto;">

<li style="padding-left: 35px"><a href="signup.htm" class="nav-link btn">Sign up</a></li>

<li style="padding-left: 35px"><a href="login.htm" class="nav-link btn">Login</a></li>

<li style="padding-left: 35px"><a href="main.htm" class="nav-link btn">About us</a></li>

</li>

<li style="padding-left: 35px"><a href="profile.htm" class="nav-link btn">Profile</a></li>

</ul>

</div>

</nav>

</div> <!--container-->

</header>

<main style="background: url(https://i.pinimg.com/originals/de/0f/4b/de0f4bf6e8075312a6eb20ad7044571a.jpg) center no-repeat; background-size: cover; height: 118vh;">

<div class="container d-flex justify-content-evenly">

<div class="position-absolute opacity-75 d-flex flex-column align-items-center flex-wrap fw-bold" style="top: 15%; width: 400px;">

<div class="row col-12 bg-secondary pt-4 d-flex align-items-center" style="padding-left: 30px;">

<div class="col">

Maximum permissible speed in populated areas

</div>

</div>

<div class="bg-secondary" style="width: 400px; color: whitesmoke; padding-left: 50px;">

<div class="form-check" style="padding-right: 20px">

<input class="form-check-input" type="radio" name="flexRadioDefault01" id="flexRadioDefault01">

<label class="form-check-label" for="flexRadioDefault01">

40 km/h

</label>

</div>

<div>

<input class="form-check-input" type="radio" name="flexRadioDefault01" id="flexRadioDefault02">

<label class="form-check-label" for="flexRadioDefault01">

45 km/h

</label>

</div>

<div>

<input class="form-check-input" type="radio" name="flexRadioDefault01" id="flexRadioDefault03">

<label class="form-check-label" for="flexRadioDefault01">

50 km/h

</label>

</div>

</div>

<div class="row col-12 bg-secondary pt-4 d-flex align-items-center" style="padding-left: 30px;">

<div class="col">

Maximum permissible speed outside populated areas

</div>

</div>

<div class="bg-secondary" style="width: 400px; color: whitesmoke; padding-left: 50px;">

<div class="form-check" style="padding-right: 20px">

<input class="form-check-input" type="radio" name="flexRadioDefault11" id="flexRadioDefault11">

<label class="form-check-label" for="flexRadioDefault11">

70 km/h

</label>

</div>

<div>

<input class="form-check-input" type="radio" name="flexRadioDefault11" id="flexRadioDefault12">

<label class="form-check-label" for="flexRadioDefault11">

80 km/h

</label>

</div>

<div>

<input class="form-check-input" type="radio" name="flexRadioDefault11" id="flexRadioDefault13">

<label class="form-check-label" for="flexRadioDefault11">

90 km/h

</label>

</div>

</div>

<div class="row col-12 bg-secondary pt-4 d-flex align-items-center" style="padding-left: 30px;">

<div class="col">

The amount of the fine for parking in the wrong place

</div>

</div>

<div class="bg-secondary" style="width: 400px; color: whitesmoke; padding-left: 50px;">

<div class="form-check" style="padding-right: 20px">

<input class="form-check-input" type="radio" name="flexRadioDefault21" id="flexRadioDefault21">

<label class="form-check-label" for="flexRadioDefault21">

15$

</label>

</div>

<div>

<input class="form-check-input" type="radio" name="flexRadioDefault21" id="flexRadioDefault22">

<label class="form-check-label" for="flexRadioDefault21">

20$

</label>

</div>

<div>

<input class="form-check-input" type="radio" name="flexRadioDefault21" id="flexRadioDefault23">

<label class="form-check-label" for="flexRadioDefault21">

25$

</label>

</div>

</div>

<div class="row col-12 bg-secondary pt-4 d-flex align-items-center" style="padding-left: 30px;">

<div class="col">

At what time you need to turn on the headlights on the car

</div>

</div>

<div class="bg-secondary" style="width: 400px; color: whitesmoke; padding-left: 50px;">

<div class="form-check" style="padding-right: 20px">

<input class="form-check-input" type="radio" name="flexRadioDefault31" id="flexRadioDefault31">

<label class="form-check-label" for="flexRadioDefault31">

After 5 PM

</label>

</div>

<div>

<input class="form-check-input" type="radio" name="flexRadioDefault31" id="flexRadioDefault32">

<label class="form-check-label" for="flexRadioDefault31">

After 6 PM

</label>

</div>

<div>

<input class="form-check-input" type="radio" name="flexRadioDefault31" id="flexRadioDefault33">

<label class="form-check-label" for="flexRadioDefault31" style="margin-bottom: 20px;">

After 7 PM

</label>

</div>

</div>

<div class="text-center">

<a href="" class="btn btn-dark fs-1 fw-bold" style="padding: 3px 40px; color: whitesmoke; width: 400px; margin-top: 25px;">Finish</a>

</div>

</div>

</div> <!--container-->

</main>

</body>

</html>