



## Sprint 4 Report

Front-End – Responsive Web Page Creation

**Sprint 3 & 4 :** Création d'une page web responsive

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## 1. Project Setup – Vite and Tailwind CSS

**Objective :** Initialize a modern front-end project using Vite and configure Tailwind CSS for responsive styling.

1. Create Vite project :

```
npm create vite@latest my-project  
cd my-project
```

2. Install Tailwind :

```
npm install tailwindcss @tailwindcss/vite
```

3. Configure plugin in vite.config.js :

```
import { defineConfig } from 'vite'  
import tailwindcss from '@tailwindcss/vite'  
  
export default defineConfig({  
  plugins: [tailwindcss()],  
})
```

4. Import Tailwind in CSS :

```
@import "tailwindcss";
```

5. Start development server :

```
npm run dev
```

**Result :** Tailwind successfully integrated with Vite. Project ready for responsive development.

## 2. Responsive Header and Navigation

**Objective :** Create a fully responsive header with navigation, CTA button, dark mode toggle, and mobile burger menu.

Features implemented :

- Semantic HTML structure
- Responsive navigation (desktop + mobile)
- SVG icons integration
- Sticky header



- Mobile dropdown menu

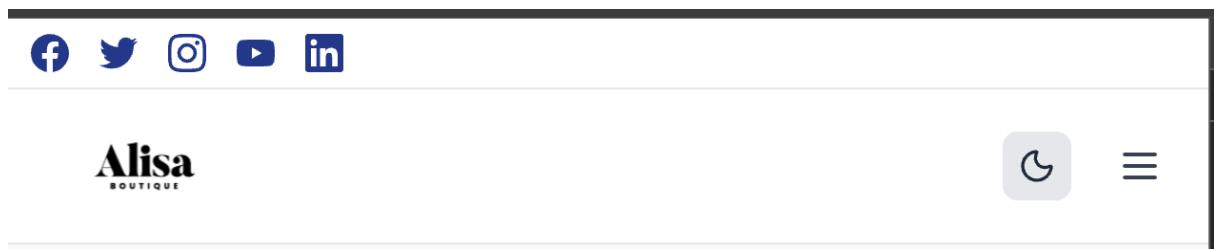


FIGURE 1 – Responsive Header – Mobile View

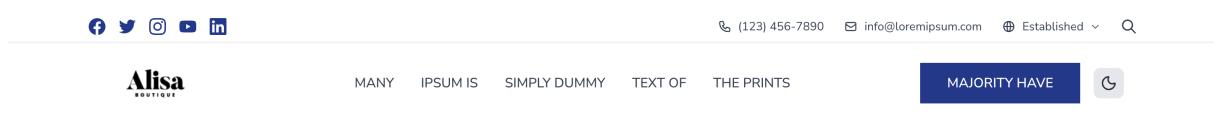


FIGURE 2 – Responsive Header – Desktop View

**Result :** Header adapts correctly to different screen sizes using Tailwind breakpoints.

### 3. Dark Mode Implementation

**Objective :** Implement a dark/light theme toggle using native JavaScript and Tailwind custom variant.

- Custom dark variant in CSS
- Theme persistence using localStorage
- Flash prevention on page load
- Dynamic icon switching

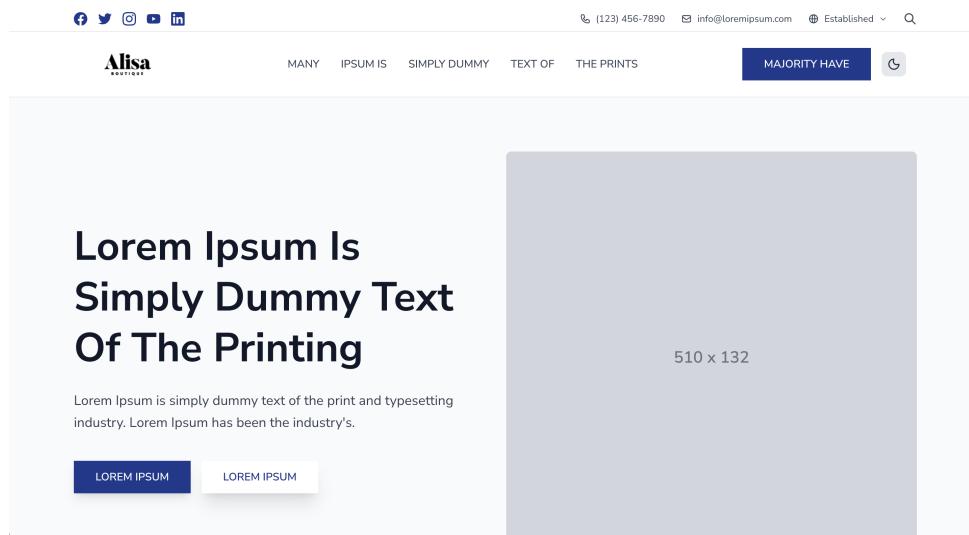


FIGURE 3 – Light Mode Interface

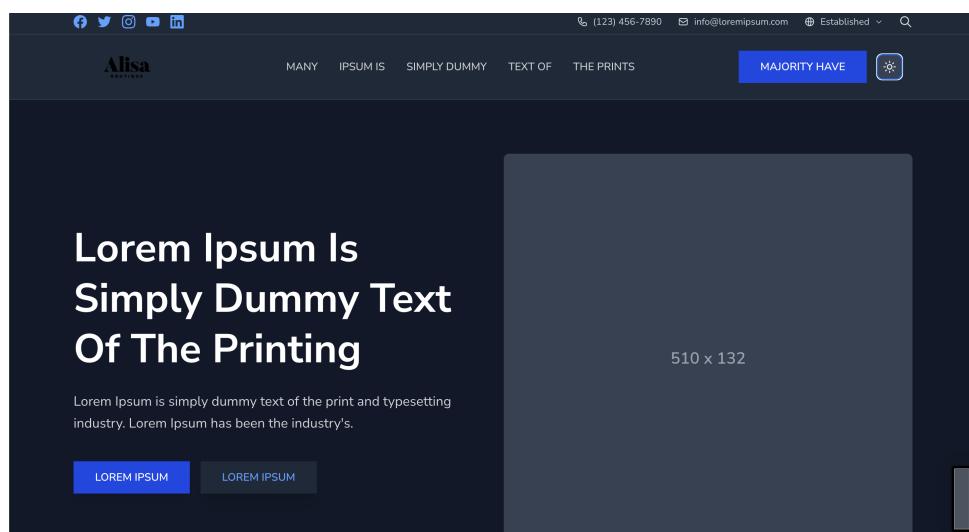


FIGURE 4 – Dark Mode Interface

**Result :** Smooth dark mode toggle with persistent user preference.

## 4. Typography and Google Fonts

**Objective :** Integrate custom Google Font for improved UI design.

```
<link href="https://fonts.googleapis.com/css2?family=Poppins :wght@300;400;500;600;700&display=swap" rel="stylesheet">
```

```
font-family: 'Poppins', system-ui, Avenir, Helvetica, Arial, sans-serif;
```

**Result :** Modern typography integrated across the website.

## 5. Responsive Form with Validation

**Objective :** Create a responsive form with client-side validation using native JavaScript.

Features :

- Responsive grid layout
- Email validation (regex)
- Moroccan phone number validation
- Error handling with dynamic messages
- Success message and form reset

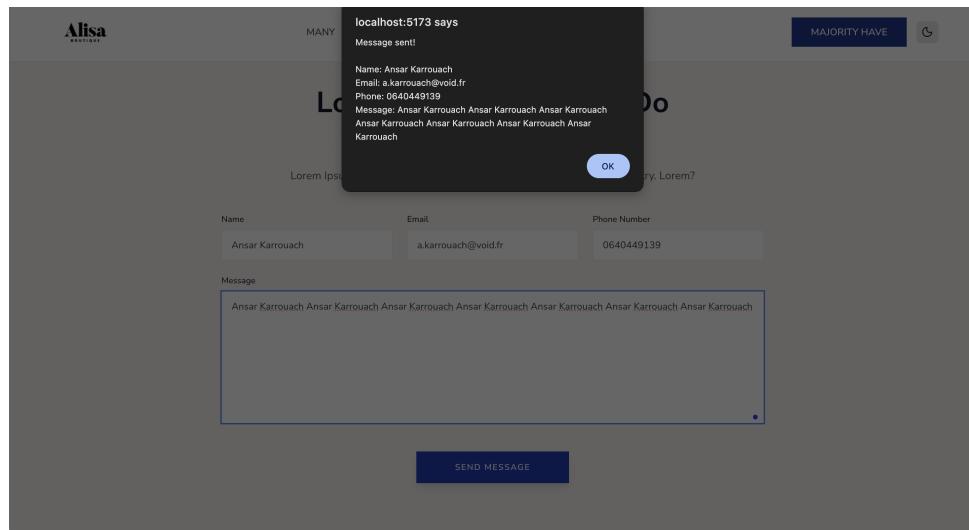


FIGURE 5 – Form – Valid Submission

Alisa

MANY IPSUM IS SIMPLY DUMMY TEXT OF THE PRINTS

MAJORITY HAVE

**Lorem Ipsum Is Simply Do Text Of The Printing**

Lorem ipsum is simply dummy text of the printing and typesetting industry. Lorem ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem ipsum.

Name  Name is required.

Email  k@ Please enter a valid email.

Phone Number  09329893028038290389028320 Please enter a valid Moroccan phone number.

Message   
Message must be at least 10 characters.

**SEND MESSAGE**

FIGURE 6 – Form – Validation Errors Displayed

**Result :** Fully functional responsive form with real-time validation feedback.

## 6. FAQ Interactive Accordion

**Objective :** Implement interactive FAQ accordion using native JavaScript.

- Toggle open/close behavior
- Auto-close other items
- Dynamic icon switching (+ / -)
- Responsive design

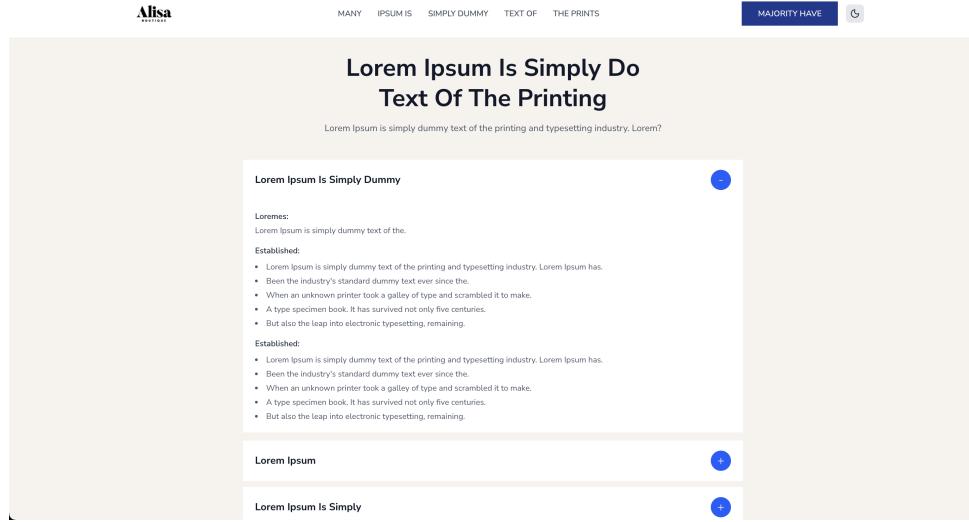


FIGURE 7 – Interactive FAQ Section

**Result :** FAQ section works dynamically without any framework.

## 7. Statistics Section – Animated Counters

**Objective :** Create animated statistics using Intersection Observer and native JavaScript.

Features :

- Count-up animation
- Intersection Observer trigger
- One-time animation execution
- Responsive layout (grid system)



FIGURE 8 – Statistics Count-Up Animation

**Result :** Animated counters triggered when section enters viewport.

## 8. Conclusion

### Sprint 4 Progress Summary

During this sprint, the following components were successfully implemented :

- Vite + Tailwind setup
- Fully responsive header and navigation
- Dark mode toggle with persistence
- Google Fonts integration
- Responsive form with validation
- Interactive FAQ accordion
- Animated statistics section

The project follows semantic HTML structure, responsive design principles, and native JavaScript interactions as required.

Remaining advanced features (RTL, performance optimization, Lighthouse tests, responsive images with `<picture>`, video embed, etc.) will be implemented in the next phase.