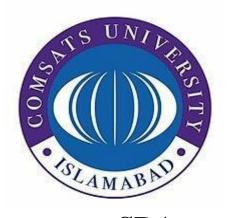
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SDA ASSIGNMENT 02

Submitted by:

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Submitted to:

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Topic:

Evolution of Tailwind CSS Architecture

27-dec-2024

Tailwind CSS Evolution Report

1. Introduction

Tailwind CSS is a utility-first CSS framework for rapidly building custom designs. It emphasizes low-level utility classes that eliminate the need for custom CSS.

2. Evolution of Architecture

Tailwind CSS v1.x

Release Notes: https://v1.tailwindcss.com/docs/release-notes

Release Date: May 13, 2019

Major Features:

• Introduction of the utility-first CSS approach.

• Default configuration file for customization (tailwind.config.js).

• Basic utilities for spacing, colors, typography, and layout.

Release Notes: Utility-based design to streamline development.

Tailwind CSS v2.x

Release Notes: https://tailwindcss.com/blog/tailwindcss-v2

Release Date: November 18, 2020

Major Features:

- Expanded color palette with more shades.
- Support for dark mode using media or class strategies.
- Added utilities for animation, outline, and forms.
- Introduction of Just-in-Time (JIT) mode (experimental).

Release Notes: Enhanced configuration and dark mode.

Tailwind CSS v3.x

Release Notes: https://tailwindcss.com/blog/tailwindcss-v3

Release Date: December 9, 2021

Major Features:

• Full support for Just-in-Time (JIT) mode by default.

- Arbitrary value support for utilities.
- Enhanced performance and faster build times.
- Utility support for CSS grid, filters, and transitions

Release Notes: Optimized builds with advanced utility features.

3. Group Member Contributions

- M Shahzeb has done the research of all 3 version
- Wagas Ahmed has done all the architecture Diagram
- Formatting and documentation are done by both M shahzeb and Waqas Ahmed

4. Conclusion

• The evolution of Tailwind CSS highlights the transformative power of utility-first frameworks in modern web development, emphasizing flexibility and speed.

5. References

- Tailwind CSS Official Site
- Tailwind CSS GitHub Repository

Architecture Diagram for Tailwind CSS v1.x

(ail	oind	CSS	1. >	Architecture (Cie
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		C	ove util	lities	
Cus	tom Con bailwine	figuration).configig		Predefiner Ceg. spacin	ng.
and the second second		featur	first css		1
	-8	Default	ies for s	Spacing, colors, Layout	

Architecture Diagram for Tailwind CSS v2.x

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Eailwind 295 2x Architecture Diagram	
Tailwind CSS Framework Core Utilities	
Custom Config. (e.g. spacing, colors	
Features:	-
-Expanded color palette	ingentation (*)
- Dark Mode Support	Name and Post Of
- Experimental JIT Mode -UHLINES for animation and forms	December 1
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Architecture Diagram for Tailwind CSS v3.x

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