🎨 Tailwind CSS Classes Guide - Smart Chat Search Engine

🔢 Main Container & Layout

Container Structure

jsx

```jsx
<div className="flex flex-col h-screen bg-gray-100">
```

- `flex` - Makes container a flexbox
- `flex-col` - Sets flex direction to column (vertical)
- `h-screen` - Height = 100vh (full viewport height)
- `bg-gray-100` - Light gray background (⬜ #f3f4f6)

🎯 Header Section

Header Container

jsx

```jsx
<div className="bg-green-600 text-white p-4 shadow-lg">
```

- `bg-green-600` - Green background (🟢 #059669)
- `text-white` - White text color
- `p-4` - Padding 1rem on all sides
- `shadow-lg` - Large box shadow

Title

jsx

```jsx
<h1 className="text-2xl font-bold mb-4 text-center">
```

- `text-2xl` - Font size 1.5rem
- `font-bold` - Font weight 700 (bold)
- `mb-4` - Margin bottom 1rem
- `text-center` - Text align center

🔍 Search Bar

Search Container

```jsx
<div className="relative max-w-md mx-auto">
```

- `relative` - Position relative (for absolute positioning of icon)
- `max-w-md` - Max width 28rem
- `mx-auto` - Margin left/right auto (centers horizontally)

Search Icon

```jsx
<Search className="absolute left-3 top-1/2 transform -translate-y-1/2 text-gray-300 w-5 h-5" />
```

- `absolute` - Position absolute
- `left-3` - Left 0.75rem
- `top-1/2` - Top 50%
- `transform -translate-y-1/2` - Center vertically using transform
- `text-gray-300` - Gray color for icon
- `w-5 h-5` - Width and height 1.25rem

Search Input

```jsx
<input className="w-full pl-10 pr-4 py-2 rounded-full text-black placeholder-gray-500 focus:out
```

- `w-full` - Width 100%
- `pl-10` - Padding left 2.5rem (space for icon)
- `pr-4` - Padding right 1rem
- `py-2` - Padding top/bottom 0.5rem
- `rounded-full` - Border radius 9999px (fully rounded)
- `text-black` - Black text
- `placeholder-gray-500` - Gray placeholder text
- `focus:outline-none` - Remove default focus outline
- `focus:ring-2` - Add 2px ring on focus
- `focus:ring-green-300` - Green ring color

⚪ Buttons

Generate Button

```jsx
<button className="flex items-center gap-2 bg-green-700 hover:bg-green-800 px-4 py-2 rounded-f
```

- `flex items-center` - Flexbox with vertical center alignment
- `gap-2` - Gap 0.5rem between items
- `bg-green-700` - Dark green background
- `hover:bg-green-800` - Darker green on hover
- `px-4 py-2` - Padding horizontal 1rem, vertical 0.5rem
- `rounded-full` - Fully rounded corners
- `transition-colors` - Smooth color transitions

Send Button

```jsx
<button className="bg-green-500 hover:bg-green-600 text-white p-2 rounded-full transition-color
```

- `bg-green-500` - Medium green background
- `hover:bg-green-600` - Darker on hover
- `text-white` - White text
- `p-2` - Padding 0.5rem all sides
- `rounded-full` - Circular button

💬 Chat Messages

Messages Container

```jsx
<div className="flex-1 overflow-hidden">
  <div className="h-full overflow-y-auto px-4 py--6 space-y-4">
```

- `flex-1` - Flex grow to fill available space
- `overflow-hidden` - Hide overflow

- `h-full` - Height 100%
- `overflow-y-auto` - Vertical scroll when needed
- `px-4 py-6` - Padding horizontal 1rem, vertical 1.5rem
- `space-y-4` - 1rem vertical spacing between children

Message Wrapper

```jsx
<div className={`flex ${message.sender === 'alice' ? 'justify-end' : 'justify-start'}`}>
```

- `flex` - Flexbox container
- `justify-end` - Align to right (Alice's messages)
- `justify-start` - Align to left (Bob's messages)

Message Bubble

```jsx
<div className={`max-w-xs lg:max-w-md px-4 py-2 rounded-2xl shadow-sm ${
  message.sender === 'alice'
    ? 'bg-green-500 text-white rounded-br-md'
    : 'bg-white text-gray-800 rounded-bl-md'
} ${
  highlightedMessages.has(message.id) ? 'ring-2 ring-yellow-400 ring-opacity-75' : ''
}`}>
```

Base Styles:

- `max-w-xs` - Max width 20rem on mobile
- `lg:max-w-md` - Max width 28rem on large screens
- `px-4 py-2` - Padding horizontal 1rem, vertical 0.5rem
- `rounded-2xl` - Large border radius
- `shadow-sm` - Small shadow

Alice's Messages:

- `bg-green-500` - Green background
- `text-white` - White text
- `rounded-br-md` - Medium border radius bottom-right

Bob's Messages:

- `bg-white` - White background
- `text-gray-800` - Dark gray text
- `rounded-bl-md` - Medium border radius bottom-left

Highlighted (Search Results):

- `ring-2` - 2px ring
- `ring-yellow-400` - Yellow ring color
- `ring-opacity-75` - 75% opacity

Message Content

```jsx
<div className="flex items-start gap-2">
  <div className="flex-1">
```

- `flex items-start` - Flexbox with top alignment
- `gap-2` - 0.5rem gap
- `flex-1` - Take remaining space

Sender Name

```jsx
<div className={`font-medium text-sm mb-1 ${
  message.sender === 'alice' ? 'text-green-100' : 'text-green-600'
}`}>
```

- `font-medium` - Font weight 500 (medium)
- `text-sm` - Font size 0.875rem
- `mb-1` - Margin bottom 0.25rem
- `text-green-100` - Very light green (Alice)
- `text-green-600` - Medium green (Bob)

Message Text

```jsx
<p className="text-sm leading-relaxed">
```

- `text-sm` - Font size 0.875rem

- `leading-relaxed` - Line height 1.625

Message Meta (Time & Status)

```jsx
<div className={`flex items-center justify-end gap-1 mt-2 text-xs ${
  message.sender === 'alice' ? 'text-green-100' : 'text-gray-500'
}`}>
```

- `flex items-center justify-end` - Flexbox, centered, right-aligned
- `gap-1` - 0.25rem gap
- `mt-2` - Margin top 0.5rem
- `text-xs` - Font size 0.75rem
- `text-green-100` - Light green for Alice
- `text-gray-500` - Gray for Bob

Icons

```jsx
<Clock className="w-3 h-3" />
<Check className="w-4 h-4 text-gray-400" />
<CheckCheck className="w-4 h-4 text-blue-500" />
```

- `w-3 h-3` - 0.75rem width/height (small icons)
- `w-4 h-4` - 1rem width/height (medium icons)
- `text-gray-400` - Gray color for unread status
- `text-blue-500` - Blue color for read status

📝 Input Area

Input Container

```jsx
<div className="bg-white border-t border-gray-200 p-4">
  <div className="flex gap-2 max-w-4xl mx-auto">
```

- `bg-white` - White background
- `border-t border-gray-200` - Top border with gray color
- `p-4` - Padding 1rem

- `flex gap-2` - Flexbox with 0.5rem gap
- `max-w-4xl mx-auto` - Max width 56rem, centered

Message Input

```jsx
<input className="flex-1 px-4 py-2 border border-gray-300 rounded-full focus:outline-none focus
```

- `flex-1` - Take remaining space
- `px-4 py-2` - Padding horizontal 1rem, vertical 0.5rem
- `border border-gray-300` - Gray border
- `rounded-full` - Fully rounded
- `focus:outline-none` - Remove default focus outline
- `focus:ring-2 focus:ring-green-500` - Green ring on focus
- `focus:border-transparent` - Make border transparent on focus

🎯 Search Results Info

```jsx
<div className="bg-yellow-50 border-t border-yellow-200 px-4 py-2">
  <p className="text-sm text-yellow-800 text-center">
```

- `bg-yellow-50` - Very light yellow background
- `border-t border-yellow-200` - Yellow top border
- `px-4 py-2` - Padding horizontal 1rem, vertical 0.5rem
- `text-sm` - Small font size
- `text-yellow-800` - Dark yellow text
- `text-center` - Centered text

🌟 Text Highlighting

```jsx
<mark className="bg-yellow-300 text-black rounded px-1">{part}</mark>
```

- `bg-yellow-300` - Yellow highlight background
- `text-black` - Black text

- `rounded` - Small border radius
- `px-1` - Padding horizontal 0.25rem

🖼️ Key Tailwind Concepts Used

Responsive Design

- `lg:max-w-md` - Different styles for large screens
- Mobile-first approach

State Variants

- `hover:bg-green-600` - Hover states
- `focus:ring-2` - Focus states

Spacing System

- Numbers represent 0.25rem increments (4 = 1rem)
- `p-4` = 1rem padding
- `gap-2` = 0.5rem gap

Color System

- Numbers from 50 (lightest) to 950 (darkest)
- `green-500` = medium green
- `gray-100` = very light gray

Flexbox Utilities

- `flex` - Display flex
- `items-center` - Align items center
- `justify-end` - Justify content end
- `flex-1` - Flex grow

Typography

- `text-sm` = 0.875rem
- `text-xl` = 1.25rem
- `font-bold` = font-weight: 700

This component is a great example of Tailwind's utility-first approach, where you compose designs by combining small, single-purpose utility classes!