

Local LLM Chat UI – Overview and Features

1. Project Goal

The objective was to design a responsive, interactive **chat interface** for communicating with **local LLM models**. The UI provides an intuitive layout similar to popular chat platforms, integrating session management and model selection for a smooth user experience.

2. Core Layout

The application is structured into two main sections inside a **flex container**:

- **Left Panel – Chat Session History**
 - Displays a list of previous sessions.
 - Includes a “Create New Chat” card with a **plus (+) icon**.
 - Each session card contains:
 - **Chat Icon** on the left.
 - **Title** in bold (first row).
 - **Date & Time** with **Edit, Download, Delete** icons (second row).
 - Styled with a **linear gradient background** and hover effects.
 - Scrollable for large lists of sessions.
 - **Right Panel – Main Chat Area**
 - **Header Section**
 - Displays **Chat Title** (left).
 - **Menu Toggle** button to show/hide session panel.
 - **Model Selector Dropdown** (e.g., GPT-3.5, GPT-4, Local LLM).
 - **Chat Messages Section**
 - Two types of message bubbles:
 - **User Messages** (right-aligned, blue gradient).
 - **Bot Responses** (left-aligned, pink-to-red gradient).
 - Each bubble includes **icon header** and a **footer with action icons**:
 - User: Copy, Edit.
 - Bot: Copy, Like, Dislike, Speaker, Refresh.
 - **Footer Section**
 - Curved **input container** with:
 - **Microphone icon** on the left.
 - **Text area** in the center.
 - **Send button** on the right.
 - **Action bar** below with icons: Upload, Tools.
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3. Visual Design Highlights

- **Background**: Applied a **linear gradient** across the entire layout.

- **Chat Session Bubbles:** Gradient backgrounds with shadows for depth.
 - **Chat Messages:** Gradient bubbles, rounded corners, and subtle shadows.
 - **Hover Effects:** Session cards and icons have smooth hover animations.
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4. UI/UX Features

- **Responsive Design**
 - Works seamlessly on **desktop, tablet, and mobile**.
 - History panel collapses on smaller screens.
 - Flexible containers with **flexbox** and media queries.
 - **Interactivity**
 - **Session Toggle:** Collapsible chat history panel controlled by a menu icon.
 - **Dynamic Chat Rendering:** Messages are dynamically added with JavaScript.
 - **Keyboard Support:** Press **Enter** to send a message.
 - **Placeholder GPT Responses** for now (mock backend behavior).
 - **Accessibility**
 - Clear icons for user and bot roles.
 - High-contrast colors and gradient backgrounds for visual clarity.
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5. Technical Stack

- **HTML5 & CSS3:** Layout and styling.
 - **Bootstrap 5:** Responsive grid and utility classes.
 - **Font Awesome:** Icons for actions and navigation.
 - **Vanilla JavaScript:** Handles:
 - Sending messages.
 - Adding chat bubbles dynamically.
 - Toggling session panel.
 - Rendering dummy sessions.
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6. Future Enhancements

- Integrate with **Local LLM backend API** for real responses.
 - Add **voice-to-text** for mic input.
 - Enable **file/image uploads** via plus (+) icon.
 - **Persistent sessions** using local storage or a database.
 - **Theme switcher** for light/dark modes.
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Summary

This UI offers a clean, modern, and user-friendly interface for LLM-based chats. It combines **aesthetic gradients**, **responsive design**, and **interactive elements** for an engaging experience, making it suitable for

both desktop and mobile users.