**Project Documentation: User List with Filter, Search, and Pagination**

**Figma Design Reference**:https://www.figma.com/design/L9iihiONfqKEEItlFVqToe/User-List-With-filter?node-id=0-1&node-type=canvas&t=CvyrBdFEaApUdou1-0

#### **Project Timeline: 1 day**

### **Overview**

The objective of this project is to build a **User List Table** based on the provided Figma design. The table will have three primary functionalities:

1. **Search**: Ability to search through the user list by a keyword (e.g., name, email).
2. **Filter**: Ability to filter the list based on predefined criteria (e.g., status, role).
3. **Pagination**: Implement pagination to navigate through the user list when there are multiple pages of data.

### **Key Functionalities**

#### **1. Search Functionality**

* **Description**: The search feature allows the user to filter the displayed users by entering a keyword. The search will look for matches in specific fields like name, email, or any other user attribute defined in the table.
* **Technical Details**:
  + Implement a debounced search input field to avoid frequent API calls during typing.
  + Search should be case-insensitive.

#### **2. Filter Functionality**

* **Description**: The filter will allow users to narrow down the list based on certain predefined conditions, such as user role, account status, etc.
* **Technical Details**:
  + Filters should be selectable via dropdown menus or checkboxes.
  + Multiple filters can be applied at once (e.g., "Active Users" and "Admin Role").
  + Clear filter functionality should be present to reset the applied filters.

#### **3. Pagination**

* **Description**: Pagination divides the list into pages, making it easier to view large datasets.
* **Technical Details**:
  + Implement pagination control at the bottom of the table.
  + The pagination should allow the user to navigate between pages (previous, next) and directly jump to specific pages.
  + Ensure pagination controls and logic are synchronized with search and filter functionalities.