

# Clutter



## Database Design & Implementation

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# Application Scenario & Problem Statement

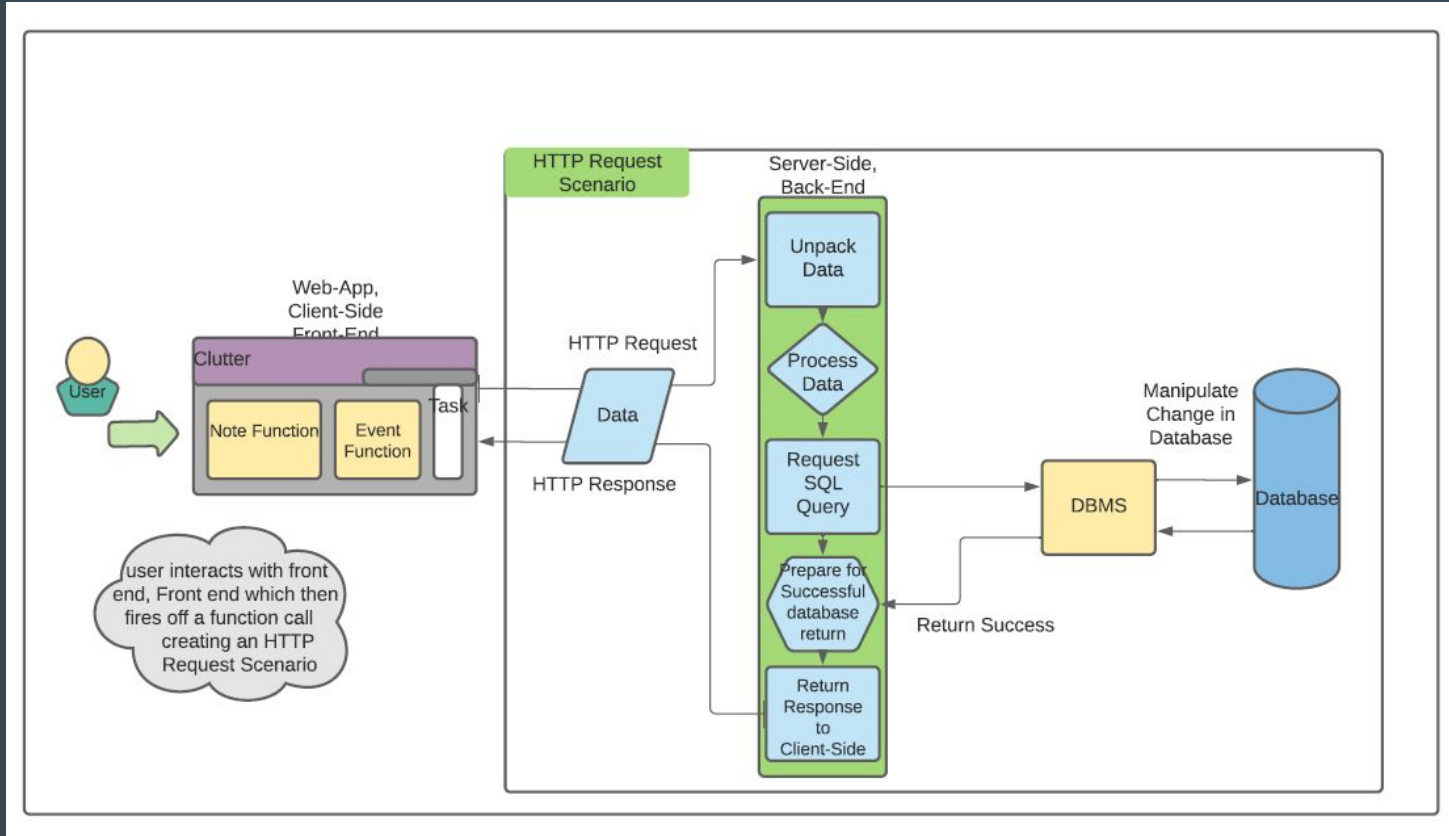
- Clutter is an organizational tool made to fit your needs.
- Allows users to keep track of their lives by storing notes, tasks and events.
- It'll even do your finances! You won't need to hire an accountant
- Keep track of your favorite media, shows movies books and even music!
- Start the day off right with an inspirational or un-inspirational quote

We designed Clutter to help normal people find their way in the world through organization in a single place where you can plan everything.

# Functional Requirements

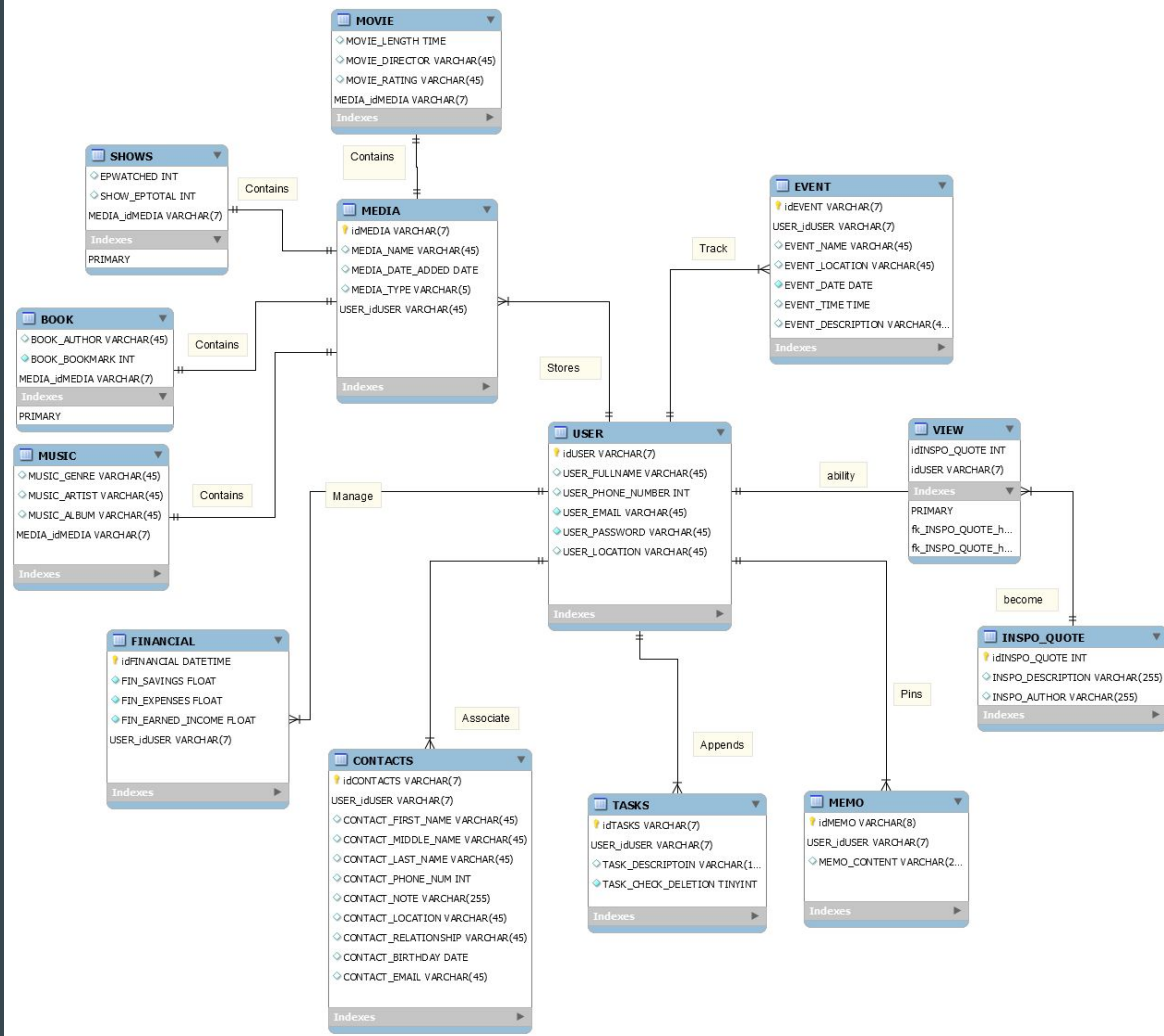
- Create an account
  - Login
  - Logout
- Create entries
  - Tasks
  - Memos
  - Contacts
  - Finances
  - Events
  - Media
    - Books, shows, movies, and music
- Searching through entries
  - Contacts
  - Media
    - Books, Shows, movies, and music
- Delete entries
  - Tasks
  - Memos
  - Contacts
  - Finances
  - Events
  - Media
    - Books, shows, movies, and music
- Updating entries
  - Memos
  - Contacts
  - Finances
  - Events
  - Media
    - Books, shows, movies, and music

# Application transactions (Control Chart)



# ER-Diagrams

- Quick overview of our diagram
- Tables represent our objects/entities
  - Primary keys serve as unique identifiers for each object, each table must have one
  - Foreign keys are primary keys of another table and provide a bridge between tables
- Within the tables are attributes that characterize the table
- Relationships between tables are characterized by the lines between them
  - 1:M and M:N relationships are represented here
- Parent to child relationship (supertype subtype)
  - Media Table
- Though it's difficult to see, we have multi-value attributes like datetime and single-value attributes like username
- Weak and strong entities
  - Inspo\_Quotes is strong because it is standalone while Book is weak because it relies on the media table to work



# Tools, Frameworks, & Technologies

- Frontend: HTML5, Bootstrap ,CSS, & JS
- Backend: Python (Django web-framework), Javascript
  - Developed in visual studio text editor
- Database: MySQL
  - Utilizing mySQL workbench
- Web-hosting: Localhost virtual environment

# Application Demo

