**User Roles**

1. **Administrator**
   * Full access to all system functionalities.
   * Manage user accounts and roles.
   * Oversee system security and data privacy compliance.
   * Monitor system performance and handle maintenance tasks.
   * Review and approve content for the chatbot's knowledge base.
2. **Caregiver**
   * Access to chatbot for dementia-related queries.
   * Use live chat support to connect with registered nurses.
   * Participate in community support forums.
   * Manage personal user profiles and caregiving preferences.
   * Receive notifications and alerts.
3. **Registered Nurse**
   * Access to live chat support to assist caregivers.
   * View and respond to caregiver queries and emergencies.
   * Update and manage health records and caregiving recommendations.
   * Provide expert moderation for community support forums.
4. **Forum Moderator**
   * Monitor and moderate community support forums.
   * Ensure discussions remain respectful and on-topic.
   * Address any inappropriate content or behavior.
   * Provide support and resources to forum participants.
5. **Developer**
   * Develop and maintain the application.
   * Implement new features and fix bugs.
   * Ensure system scalability and performance.
   * Conduct regular security audits and updates.
   * Collaborate with AI experts to enhance chatbot functionalities.

### UI Design for User Roles

#### **1. Administrator Dashboard**

**Home Screen:**

* Overview of system status (users, active chats, forum activity)
* Notifications for system alerts and updates
* Quick access buttons to key sections (User Management, System Settings, Content Management)

**User Management:**

* Search and filter options for users
* List of users with roles, status, and actions (edit, delete, deactivate)
* Button to add new users
* Detailed view of user profiles with edit capabilities

**System Settings:**

* Configuration options for security settings, data privacy, and compliance
* Logs and audit trails for system activities
* Settings for chatbot knowledge base management

**Content Management:**

* Interface for reviewing and approving content for the chatbot
* Tools to add, edit, or delete knowledge base entries
* View of content usage statistics and feedback

**Chat Management:**

* Live view of ongoing chats
* Options to intervene or monitor chat sessions
* Chat logs and history access

#### **2. Caregiver Interface**

**Home Screen:**

* Personalized greeting and user profile picture
* Quick access to chatbot, live chat, and forums
* Notifications for new messages, forum posts, and alerts

**Chatbot Interface:**

* Chat window with text input and send button
* Option to attach images or files
* Display of chatbot responses in a conversational format
* Feedback buttons for rating responses

**Live Chat Support:**

* Button to start a live chat with a support nurse
* Waiting screen with estimated wait time if the nurse is busy
* Chat interface similar to the chatbot with text, image, and file sharing capabilities
* Emergency alert button for urgent issues

**Community Support:**

* Forums categorized by user groups (Male Caregivers, LGBTQ+ Community, Young People)
* List of active discussions and recent posts
* Option to create new posts or reply to existing ones
* User profile pictures and usernames displayed with posts
* Search and filter options for forum topics

**User Profile:**

* View and edit personal information and caregiving preferences
* Manage notification settings
* View of personal chat history and forum activity

#### **3. Registered Nurse Dashboard**

**Home Screen:**

* Overview of active live chats and pending queries
* Notifications for new chat requests and emergencies
* Quick access to patient records and health history

**Live Chat Interface:**

* List of active and waiting chat sessions
* Detailed view of ongoing chat with text, image, and file sharing capabilities
* Tools for adding notes and marking chat as resolved
* History of previous chats with the caregiver

**Patient Records:**

* Search and filter options for patient records
* Detailed view of patient profiles with health history and caregiving notes
* Tools for updating and managing patient records

**Forum Moderation:**

* List of active forum discussions
* Tools for moderating posts (edit, delete, warn user)
* Notifications for flagged content or reported issues
* Interface for providing expert advice and resources

#### **4. Forum Moderator Dashboard**

**Home Screen:**

* Overview of forum activity (new posts, flagged content, reported users)
* Notifications for moderation tasks
* Quick access to different forum categories

**Forum Management:**

* List of active discussions and recent posts
* Tools for moderating posts (edit, delete, warn user)
* Search and filter options for forum topics
* Interface for creating and pinning announcements

**User Management:**

* List of forum users with actions (warn, ban, message)
* View of user profiles and forum activity
* Tools for managing user warnings and bans

#### 5. **Developer Interface**

**Home Screen:**

* Overview of system performance metrics (uptime, response times, error rates)
* Notifications for system updates and issues
* Quick access to code repository, CI/CD pipeline, and logs

**System Monitoring:**

* Real-time dashboard for system health and performance
* Logs and error tracking
* Tools for debugging and troubleshooting issues

**Development Tools:**

* Interface for managing code repository (GitHub integration)
* CI/CD pipeline status and tools for managing deployments
* Automated testing results and coverage reports

**Security Management:**

* Tools for conducting security audits and reviews
* Logs and reports for security events
* Interface for managing security settings and compliance