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| Use Case 1 | User registration |
| Objective | Allow new users to create an account and join the messaging platform. |
| Main Steps | 1. User visits the site and clicks on the "Get Started" button. |
|  | 2. User fills out the registration form with required details (first name, last name, username, password, email, and phone number) |
|  | 3. User submits the registration form. |
|  | 4. The system validates the information and creates a new user account if successful. |
|  | 5. Upon successful registration, the user receives a confirmation email or notification. |
|  | 6. The user can now log in using the registered credentials. |

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| Use Case 2 | Sending messages |
| Objective | Enable users to send and receive real-time messages. |
| Main Steps | 1. User logs into the application. |
|  | 2. User navigates to the chat interface. |
|  | 3. User selects a contact or group to send a message. |
|  | 4. User types and sends a real-time message. |
|  | 5. The system delivers the message instantly to the recipient. |
|  | 6. Both the sender and recipient receive real-time notifications for new messages. |
|  | 7. Users can engage in an immediate and responsive conversation. |

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| Use Case 3 | Group Collaboration |
| Objective | Allow users to create and participate in groups. |
| Main Steps | 1. User logs into the application. |
|  | 2. User navigates to the "Groups" section. |
|  | 3. User creates a new group and assigns a group name. |
|  | 4. User invites other users to join the group. |
|  | 5. Group members can send real-time messages within the group. |
|  | 6. Group owners can manage group membership and settings. |

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| Use Case 4 | Password Reset |
| Objective | Enable registered users to reset their passwords if forgotten. |
| Main Steps | 1. User attempts to log in but forgets their password. |
|  | 2. User clicks on the "Forgot Password" link on the login screen. |
|  | 3. User enters the registered email address. |
|  | 4. The system sends a password reset link to the user's email. |
|  | 5. User clicks on the reset link and sets a new password. |
|  | 6. The new password is validated and saved in the system. |
|  | 7. The user can now log in using the updated credentials. |

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| Use Case 5 | Message Search and Filtering |
| Objective | Allow users to search for and filter messages based on specific criteria. |
| Main Steps | 1. User logs into the application. |
|  | 2. User navigates to the "Search" or "Filter" feature within the messaging interface. |
|  | 3. User enters search criteria, such as keywords, usernames, or group names. |
|  | 4. The system retrieves and displays relevant messages based on the search criteria. |
|  | 5. Search results are limited to messages in which the user is a participant to ensure privacy. |
|  | 6. Users can quickly find and review specific messages within their conversation history. |