# **Chat Limit Feature Documentation**

## **Overview**

The chat limit feature restricts the number of messages free users can send to the AI consultant. This document provides a comprehensive guide to how the chat limit works, where it appears in the UI, and how it integrates with the subscription plans.

# **Chat Limit Implementation**

Feature	Description	<b>Screenshot Location</b>
Initial Chat Count	New users are given 10 free messages upon registration	User registration screen
Remaining Messages Display	Shows the number of remaining messages for free users in the chat interface	Bottom of chat input area
Message Decrement	Each message sent by a free user decreases their chat count by 1	Chat interface
Limit Warning	When users have 3 or fewer messages left, the count is displayed in red	Chat input area
Limit Reached	When users have 0 messages left, they are prompted to upgrade to continue	Chat interface and redirect to pricing page
Unlimited Messages	Users with Basic or Premium plans have unlimited messages	N/A

## **User Interface Elements**

## **Chat Input Area**

Element	Description	Visibility Condition
Message Counter	Shows "You have X free messages remaining"	Only visible for free users
Warning Text	Displays in red when 3 or fewer messages remain	Only visible when count $\leq$ 3
Upgrade Prompt	Shows when all messages are used	Only visible when count = 0
Character Counter	Shows current message length/maximum allowed (1000)	Visible for all users

## **Error Messages**

Message	Trigger	Action
"You've reached your free message limit. Please	User with 0 messages	Redirects to pricing
, E	2	page

upgrade to a premium plan to continue chatting." tries to send a message

"Your message exceeds the maximum length of 1000 Message exceeds Prevents message characters. Please shorten it." Character limit from being sent

## **Subscription Plan Integration**

### Plan Chat Access Message Limit Price

Free (No Plan) Limited 10 messages ₹0

BasicUnlimitedNo limit₹[Basic Plan Price]PremiumUnlimitedNo limit₹[Premium Plan Price]Pay-Per-CallUnlimitedNo limit₹[Pay-Per-Call Price]

## **Technical Implementation**

#### **User Data Structure**

The chat count is stored in the user's profile in Firebase:

```
// User data structure with chat count
{
   uid: string,
   email: string,
   displayName: string,
   // ... other user fields
   chatCount: number, // Number of remaining messages for free users
   plan: string | null // User's subscription plan (null, 'basic', 'premium', 'p.
}
```

### **Chat Count Management**

#### Operation Code Location Description

Initialization authSlice.ts New users get 10 free messages on registration

Decrement chatSlice.ts Chat count decreases by 1 when a free user sends a message

Check ChatInterface.tsx Before sending a message, system checks if user has remaining

ChatInterface.tsx messages

Redux state and Firestore database are updated when chat count

authSlice.ts changes

### **Code Snippets**

Update

### **Checking Chat Count Before Sending Message**

```
// Check if user has a premium plan
const hasPremiumPlan = user.plan === 'premium' || user.plan === 'basic';

// If user doesn't have a premium plan, check chat count
if (!hasPremiumPlan && (user.chatCount === undefined || user.chatCount <= 0)) {</pre>
```

```
toast.error("You've reached your free message limit. Please upgrade to a prem
setinputLoading(false);
navigate('/pricing');
return;
}
```

#### **Displaying Remaining Messages**

#### **Decrementing Chat Count**

```
// Only decrement chat count for non-premium users
if (!hasPremiumPlan && userData.chatCount !== undefined) {
    // Calculate new chat count
    const newChatCount = Math.max(0, userData.chatCount - 1);

    // Update Firestore
    await updateDoc(userRef, {
        chatCount: newChatCount
    });

    // Update Redux state
    dispatch(updateChatCount({
        uid: userId,
        chatCount: newChatCount
    }));
}
```

## **User Flow**

#### 1. New User Registration

- User creates an account
- System initializes chatCount to 10
- User can send up to 10 messages to the AI

#### 2. Using Free Messages

- Each message sent decrements chatCount by 1
- UI displays remaining message count

• When count reaches 3 or fewer, warning appears in red

#### 3. Limit Reached

- When chatCount reaches 0, user cannot send more messages
- System shows error message and redirects to pricing page
- User must upgrade to continue using the chat

#### 4. Subscription Upgrade

- User purchases Basic or Premium plan
- Chat limit is removed, allowing unlimited messages
- Message counter no longer appears in the UI

## **Implementation Checklist**

- [x] Initialize chat count for new users
- [x] Display remaining messages in chat interface
- [x] Decrement count when messages are sent
- [x] Show warnings when count is low
- [x] Block messages when count reaches zero
- [x] Redirect to pricing page when limit is reached
- [x] Remove limits for paid subscription users

### **Screenshot Placement Guide**

<b>Screenshot Description</b>	<b>UI Location</b>	Key Elements to Highlight
New User Chat Interface	Chat page for free user	Message counter showing 10 messages
Low Count Warning	Chat input area	Red text showing low message count
Limit Reached Error	Toast notification	Error message about reaching limit
Pricing Page Redirect	Pricing page	Available subscription options
Unlimited Chat (Paid User)	Chat interface for paid user	Absence of message counter

## **Testing Instructions**

- 1. Create a new test user account
- 2. Verify initial chat count is set to 10
- 3. Send messages and confirm count decrements correctly
- 4. Test warning appearance when count is low
- 5. Verify user cannot send messages when count reaches 0
- 6. Test upgrade flow to ensure limits are removed with subscription

### **Additional Notes**

- The chat limit only applies to text messages, not to other features
- Character limit (1000 chars) applies to all users regardless of subscription

- Admin users are not subject to chat limits
- Chat count does not reset automatically users must upgrade to continue after using all free messages