

# Flow CAD

## FLOW 1: Create Chatbot from Document Upload

### Step 1: Home Screen (HomePage)

- User enters the "Chatbot System" homepage
- Sees a large upload area with 2 upload methods:
- **Drag & Drop:** Drag files into the upload zone
- **Click to Select:** Click "Select Documents" button to choose files
- Accepted file types: PDF, DOC, DOCX, TXT
- After upload → Green toast notification: "Upload successful: [filename]"
- File automatically saved to Document Library

### Step 2A: View Document Library

- Click "Document Library (n)" icon in top-right corner of home screen
- Navigate to **Document Library** screen:
- Displays list of all uploaded documents
- Each document shows: Icon, Filename, Upload date, File size
- 2 action buttons: Download and Delete

### Step 2B: Click Document to View

- Click on document name in the list
- Navigate to **Document Viewer** screen:
- Displays full document content
- Header contains: Back button, Filename, "Create Chatbot" button
- Bottom section has light blue box with:
- Bot icon
- Description: "The chatbot will help you ask questions..."
- "Create Chatbot Now" button

## Step 3: Create Chatbot

- Click "Create Chatbot" button (in header or bottom box)
- Toast notification: "Created chatbot for: [filename]"
- Automatically navigate to **Chatbot Interface** screen

## FLOW 2: Create Chatbot from Search

### Step 1: Search Documents on Home Screen

#### Method 1 - Text Search:

- On home screen, scroll down to "Search Documents" section
- Enter keywords in search box: "Search by name or document content..."
- System automatically searches (0.5s delay)
- Toast: "Found [n] document(s)"

#### Method 2 - Image Search:

- Click "Search by image" button (purple)
- Select image from computer
- AI system analyzes image (1s delay)
- Toast: "Found [n] related document(s) from image"
- Search image preview displays next to button

### Step 2: View Search Results

- Results display immediately below search section
- Header: "Search Results ([n] document(s))"
- Each document in results shows:
  - Blue file icon
  - Filename
  - File size
- **2 action buttons:**
- **"View" button:** View document details → Navigate to Document Viewer
- **"Create Chatbot" button:** Create chatbot directly

## Step 3: Create Chatbot Directly

- Click "Create Chatbot" button from search results
- Toast: "Created chatbot for: [filename]"
- Automatically navigate to **Chatbot Interface** for immediate Q&A

## FLOW 3: Using the Chatbot

### Chatbot Interface Screen

#### Layout:

- **Header:**
  - Back button to home
  - Blue Bot icon
  - Title "Chatbot"
  - Subtitle: Document name being discussed
- **Messages Area** (center):
  - Initial empty state: "Start conversation - Ask me anything about your document"
  - User messages: Blue bubbles, right-aligned, User icon
  - AI messages: White bubbles, left-aligned, Bot icon
- **Input Area** (bottom):
  - Text input box: "Enter your question... (Try 'find documents' or 'search')"
  - Blue "Send" button

### Chat Functionality:

#### 1. Regular Q&A:

- Type question → Press Enter or Click Send
- AI responds based on document content
- Response: "Based on the document '[filename]', I can answer your question. This content is mentioned in your document."

#### 2. Search for Related Documents:

- Type query containing "search" or "find"
- AI responds + displays **Related Documents** below:
- List of related documents (max 2-3 docs)
- Each doc shows: Icon, Filename, **Page number** (Page X)
- Click on document → Navigate to Document Viewer for that document

### **3. View Related Document and Create New Chatbot:**

- From Related Documents, click on a document
- Navigate to Document Viewer for that document
- Click "Create Chatbot" → Create new chatbot for this document
- Can now chat with the new chatbot
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## **KEY NAVIGATION FLOWS:**

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### **HOME PAGE**

- |—— Upload file → Document Library (top-right icon)
- |—— Search text/image → Search Results
  - | |—— View → Document Viewer → Create Chatbot → Chatbot Interface
  - | |—— Create Chatbot → Chatbot Interface (direct)
- |—— Document Library → Click doc → Document Viewer → Create Chatbot → Chatbot Interface

### **CHATBOT INTERFACE**

- |—— Regular chat → AI response
- |—— Chat with "search"/"find" → AI + Related Documents
  - | |—— Click related doc → Document Viewer → Create new Chatbot
- |—— Back → Home page

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## **DATA STATE:**

### **Documents (Array):**

- `id`: Unique ID
- `name`: Filename
- `uploadDate`: Upload date
- `size`: File size
- `content`: Document content

### **Chatbots (Array):**

- `id`: Unique chatbot ID
- `documentId`: Original document ID
- `documentName`: Document name
- `messages[]`: Chat history
- User messages
- AI messages (may include relatedDocuments)

### **Related Documents in AI message:**

- `documentId`: Related document ID
- `documentName`: Filename
- `page`: Referenced page number