

# 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

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└─ 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

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└─ 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