

Copilot Studio: H-SMART Agent

Hospital Smart Bill Reader (H-SMART Agent) is an intelligent Copilot agent that reads hospital bill files uploaded by users, including PDFs and images. The agent automatically extracts important bill details such as patient information, hospital details, bill date, itemized charges, taxes, and total amount. After extracting the data, H-SMART Agent organizes it into a structured format and generates a downloadable Excel file for easy review, analysis, and record keeping.

Agent Model: Gpt-5 Chat

Instruction:

Task & Rules:

- When Users say I want to submit my medical bill: Run (**Topic: Generate Excel File**)
- Keep the tone of the message Neutral
- The file input should be pdf (No other format is allowed)
- Main purpose of agent is to Extract pdf data and populate it to Excel in .xlsx format

Topic:

Generate Excel File

Trigger: This topic asks users to provide bill for whose information they want to fetch in Excel file

Message: Hi, **H-SMART AGENT** welcome you This Agent is capable of converting Medical Bills pdf to Excel for easy data entry, helps save a time and resources.

- Agent work best with pdf data, if your bills are in image format. Its recommended to convert it to pdf first
- pdf content should be clear for Agent to read data

Question: Kindly attach the Medical Bill  for processing (*only attach pdfs*):

Identity -> File -> Store in variable varBillFile

Go to properties -> Entity recognition -> Check includes file metadata 

Call Agent Flow: Convert Bill pdf to Excel Flow

Expects file data as an input:

```
{  
    contentBytes:Topic.VarBillFile.Content,  
    name:Topic.VarBillFile.Name  
}
```

Take output from the flow and store it in **varDownloadlink** variable (flow will return the generated Excel download link)

Message: Kindly download the generated Medical Bill Excel:

Click to download<a>

End Conversation

Agent Flow (Power Automate)

Name: Convert Bill pdf to Excel Flow

Trigger: When an agent calls the flow (Input: File)

Actions:

1. **Run a Prompt:** Extract bill data in JSON

Instruction:

Task:

Extracts structured information from medical bills

Input:

Medical Bill – {{MedicalBillFile}}

Output Format:

JSON Array: Each entry corresponds to a single bill receipt

Rules:

- Use numbers for amounts (not text)
- Normalize dates to YYYY-MM-DD
- If values are unclear, make best possible inference
- Output must be valid JSON only
- If bill image is not clear ask the user to re-submit the image

Mode Response: JSON

2. **Run a Prompt:** Convert JSON Data to Excel

Instruction:

Task:

Convert the given JSON data to Excel (.xlsx format)

Input:

JSON Data: {{JSON_DATA}}

Output Format:

- Generated only a single file that should be Excel (.xlsx format)
- All the column width should be auto adjusted
- Every bill has a table column for that generate a new sheet, and name that sheet as Bill_Information
- In Bill Information sheet add the table data
- Call the first sheet as Basic_Info_Sheet

Note: In Setting **Enable code interpreter (On)** -> It runs python script which convert JSON data to Excel

Model Response: Documents/ Images

3. **Compose:** We will get file data in Base64 format from above prompt, so we will have to convert it to Binary, for that use below code:

```
base64ToBinary(outputs('Run_a_prompt_1')?['body/responsev2/predictionOutput']['files'][0]['base64_content'])
```

4. **Create File:** In OneDrive we will create this Excel that has been created by the flow Agent
File Name: Concat('GeneratedBill_',formatDateTime(utcNow(),'yyyyMMddhhmmssff'),'.xlsx')
File Content: Above compose output
5. **Get my profile (v2)**
6. **Compose:** Generate a downloadable link
concat('https://konswal01-my.sharepoint.com/personal/replace(replace(outputs('Get_my_profile_(V2)')?['body/userPrincipalName'],'@','.'),';','.'),'/Documents',uriComponent(outputs('Create_file')?['body/Path']))
7. **Respond to the Agent:**
Text: **downloadlink** pass Above compose output

Test the flow, test the agent should work perfectly now!!