**Endpoint: /chat (POST)**

* Description: CHAT WITH AMPLIFY. Offers real-time chat capabilities exclusively through streaming. Interact with a selection of the most advanced AI chat models available including GPT, Claude, and Mistral.
* Expected Request Data for /chat
  + model (string): Required.
    - Model options include : gpt-35-turbo, gpt-4o, gpt-4o-mini,  
      gpt-4-1106-Preview,  
      anthropic.claude-3-haiku-20240307-v1:0 - anthropic.claude-3-5-sonnet-20240620-v1:0, anthropic.claude-3-opus-20240229-v1:0 - mistral.mistral-7b-instruct-v0:2,  
      mistral.mixtral-8x7b-instruct-v0:1, mistral.mistral-large-2402-v1:0
  + **temperature** (number) **max\_tokens** (integer)
  + **dataSources** (array of objects)
    - **id** (string): Required.
    - **type** (string): Required.
  + **messages** (array of objects):
    - **role** (string): Required. Options include: system - assistant - user.
    - **content** (string): Required.
  + **type** (string): Options include prompt.
  + **options** (object):
    - **dataSourceOptions** (object)
    - **ragOnly** (boolean)
    - **skipRag** (boolean)
    - **assistantId** (string – astp prefix)
    - **model** (object):
      * - **id** (string)
    - **prompt** (string)
* Request Body Example for /chat

```

{  
 "data": {  
 "model": "gpt-4o",  
 "temperature": 0.7,  
 "max\_tokens": 150,  
 "dataSources": [{

"id": "s3://user@vanderbilt.edu/2024-10-02/d097d7b9-ad1a-4e5.json",

"type": "application/pdf"

}],  
 "messages": [  
 {  
 "role": "user",  
 "content": "What is the capital of France?"  
 }  
 ],  
 "options": {  
 "ragOnly": false,  
 "skipRag": true,  
 "model": ["gpt-4o"],  
 "prompt": "What is the capital of France?",

“assistantId”: “astp/abcdefghijk”  
 }  
 }  
}

```

* Example Response for /chat

```

{  
 "success": true,  
 "message": "Chat completed successfully",  
 "data": "The capital of France is Paris."  
}

```

* Common questions about the /chat endpoint:
* user asks how to attach an assistant to the chat request

Notice in the options data attribute there is an assistantId, tell the user the assistantId needs to be added in the options object and the id is prefixed with 'astp', they can find the id by going to the assistant modal (opens by clicking the edit icon on their assistant), then expanding the 'Advanced' drop down menu. Alternatively the user can call the /assistant/list endpoint to view all assistant data and find the assistantId

* user asks how to attach data sources to the chat request

Notice the dataSources attribute. The user would need to have uploaded the documents directly through the Amplify documentation or through the API endpoint /files/upload, then they will need to call the API endpoint /files/query in order to get a list of all their uploaded files, They will need to locate the correct entry and extract the id and type to put in an object like so: { id”: “s3://user@vanderbilt.edu/56789876rtfghjkbvder5678", type”:”application/pdf”}. Then append it to the dataSource attribute list in the request

**Endpoint: /state/share (GET)**

* Description: View a list of shared resources including assistants, conversations, and organizational folders distributed by other Amplify platform users.
* No Expected Request Data for /state/share
* No Request Body Example for /state/share
* Example Response for /state/share

```

[  
 {  
 "note": "testing share with a doc",  
 "sharedAt": 1720714099836,  
 "key": "[yourEmail@vanderbilt.edu/sharedByEmail@vanderbilt.edu/932804035837948202934805-24382.json](mailto:yourEmail@vanderbilt.edu/sharedByEmail@vanderbilt.edu/932804035837948202934805-24382.json)",  
 "sharedBy": "[sharedByEmail@vanderbilt.edu](mailto:sharedByEmail@vanderbilt.edu)"  
 }  
]  
```

**Endpoint: /state/share/load (POST)**

* Description: Once the shared data is accessed, individual elements can be retrieved and examined using a unique identifier key associated with each entry in the shared resource list.
* Expected Request Data for /state/share/load
  + key (string): Required.
* Request Body Example for /state/share/load

```

{  
 "data": {  
 "key": "[yourEmail@vanderbilt.edu/sharedByEmail@vanderbilt.edu/9324805-24382.json](mailto:yourEmail@vanderbilt.edu/sharedByEmail@vanderbilt.edu/9324805-24382.json)"  
 }  
}  
```

* Example Response for /state/share/load

```

{  
 "version": 1,  
 "prompts": [  
 {  
 "id": "ast/7b32fc3f-fe93-4026-b358-0e286e4a6013",  
 "name": "share item 1",  
 "content": "<content>",  
 "data": {  
 "assistant": {  
 "definition": {  
 "instructions": "<instructions>",  
 "user": "[sampleUser@vanderbilt.edu](mailto:sampleUser@vanderbilt.edu)",  
 "dataSources": [{"name": "file\_name.csv"}],  
 "name": "share item i"  
 }  
 },  
 "provider": "amplify",  
 "noCopy": true,  
 "noEdit": true,  
 "noDelete": true,  
 "noShare": true  
 }  
 }  
 ]  
}

```

**Endpoint: /files/upload (POST)**

* Description: Initiate a file upload to the Amplify platform enabling interaction via prompts and assistants. The endpoint generates and returns a time-limited pre-authenticated URL facilitating secure transmission of file contents.
* Expected Request Data for /assistant/files/upload
  + name (string): Required.
  + type (string): Required.
  + knowledgeBase (string): Required.
  + tags (array of strings): Required.
  + data (object): Required.
* Request Body Example for /assistant/files/upload

```

{  
 "data": {  
 "type": "application/fileExtension",  
 "name": "fileName.pdf",  
 "knowledgeBase": "default",  
 "tags": [],  
 "data": {}  
 }  
}  
```

* Example Response for /assistant/files/upload

```

{  
 "success": true,  
 "uploadUrl": "<uploadUrl>",  
 "statusUrl": "<statusUrl>",  
 "contentUrl": "<contentUrl>",  
 "metadataUrl": "<metadataUrl>",  
 "key": "[yourEmail@vanderbilt.edu/date/293088.json](mailto:yourEmail@vanderbilt.edu/date/293088.json)"  
}  
```

**Endpoint: /files/query (POST)**

* Description: View a list of uploaded Amplify data sources.
* Expected Request Data for /assistant/files/query
  + startDate (string date-time): Default is 2021-01-01T00:00:00Z.
  + pageSize (integer): Default is 10.
  + pageKey (object): - id (string) - createdAt (string) - type (string)
  + namePrefix (string or null)
  + createdAtPrefix (string or null)
  + typePrefix (string or null)
  + types (array of strings): Default is an empty array.
  + tags (array of strings): Default is an empty array.
  + pageIndex (integer): Default is 0.
  + forwardScan (boolean): Default is false.
  + sortIndex (string): Default is createdAt.
* Request Body Example for /assistant/files/query

```

{  
 "data": {  
 "pageSize": 2,  
 "sortIndex": "",  
 "forwardScan": false  
 }  
}  
```

* Example Response for /assistant/files/query

```

{  
 "success": true,  
 "data": {  
 "items": [  
 {  
 "createdAt": "2024-07-15T17:12:45.046682",  
 "updatedBy": "[yourEmail@vanderbilt.edu](mailto:yourEmail@vanderbilt.edu)",  
 "createdBy": "[yourEmail@vanderbilt.edu](mailto:yourEmail@vanderbilt.edu)",  
 "name": "fileName.doc",  
 "knowledgeBase": "default",  
 "data": {},  
 "updatedAt": "2024-07-15T17:12:45.046700",  
 "totalTokens": 12644,  
 "dochash": "25ef6a3e472d8dbe501915c1",  
 "id": "[yourEmail@vanderbilt.edu/date/2389020943.json](mailto:yourEmail@vanderbilt.edu/date/2389020943.json)",  
 "tags": [],  
 "totalItems": 1025,  
 "type": "application/fileExtension"  
 }  
 ]  
 }  
}

```

**Endpoint: /files/tags/list (POST)**

* Description: View a list of your Amplify tags that can be tied to your data sources, conversations, and assistants.
* Expected Request Data for /assistant/tags/list
  + N/A
* Request Body Example for /assistant/tags/list

```

{  
 "data": {}  
}

```

* Example Response for /assistant/tags/list

```

{  
 "success": true,  
 "data": {  
 "tags": ["NewTag"]  
 }  
}  
```

**Endpoint: /files/tags/create (POST)**

* Description: Create new Amplify tags that can be tied to your data sources, conversations, and assistants.
* Expected Request Data for /assistant/tags/create
  + tags (array of strings): Default is an empty array.
* Request Body Example for /assistant/tags/create

```

{  
 "data": {  
 "tags": ["NewTag"]  
 }  
}  
```

* Example Response for /assistant/tags/create

```

{  
 "success": true,  
 "message": "Tags added successfully"  
}  
```

* **Endpoint: /assistant/tags/delete (POST)**
* Description: Delete an Amplify tag.
* Expected Request Data for /assistant/tags/delete
  + tag (string): Required.
* Request Body Example for /assistant/tags/delete

```

{  
 "data": {  
 "tag": "NewTag"  
 }  
}

```

* Example Response for /assistant/tags/delete

```

{  
 "success": true,  
 "message": "Tag deleted successfully"  
}

```

**Endpoint: /files/set\_tags (POST)**

* Description: Associate an Amplify tag with a specific data source, conversation, or assistant.
* Expected Request Data for /assistant/files/set\_tags
  + id (string): Required.
  + tags (array of strings): Default is an empty array.
* Request Body Example for /assistant/files/set\_tags

```

{  
 "data": {  
 "id": "[yourEmail@vanderbilt.edu/date/290208.json](mailto:yourEmail@vanderbilt.edu/date/290208.json)",  
 "tags": ["NewTag"]  
 }  
}

```

* Example Response for /assistant/files/set\_tags

```

{  
 "success": true,  
 "message": "Tags updated and added to user"  
}

```

**Endpoint: /embedding-dual-retrieval (POST)**

* Description: Retrieve Amplify data source embeddings based on user input through dual retrieval method.
* Expected Request Data for /embedding-dual-retrieval
  + userInput (string): Required.
  + dataSources (array of strings): Required.
  + limit (integer)
* Request Body Example for /embedding-dual-retrieval

```

{  
 "data": {  
 "userInput": "Can you describe the policies outlined in the document?",  
 "dataSources": ["global/09342589234890.content.json"],  
 "limit": 10  
 }  
}  
```

* Example Response for /embedding-dual-retrieval

```

{  
 "result": [  
 {  
 "content": "xmlns:w=3D'urn:schemas-microsoft-com:office:word' ...",  
 "file": "global/24059380341.content.json",  
 "line\_numbers": [15-30],  
 "score": 0.7489801645278931  
 },  
 {  
 "content": "Date: Wed 8 May 2024 17:45:21 +0000 (UTC) ...",  
 "file": "global/0934498492349.content.json",  
 "line\_numbers": [1-11],  
 "score": 0.7464098930358887  
 }  
 ]  
}  
```

**Endpoint: /assistant/list (GET)**

* Description: Retrieve a list of all Amplify assistants.
* No Expected Request Data for /assistant/list
* No Request Body Example for /assistant/list
* Example Response for /assistant/list

```

{  
 "success": true,  
 "message": "Assistants retrieved successfully",  
 "data": [  
 {  
 "assistantId": "astp/498370528-38594",  
 "version": 3,  
 "instructions": "<instructions>",  
 "disclaimerHash": "348529340098580234959824580-pueiorupo4",  
 "coreHash": "eiouqent84832n8989pdeer",  
 "user": "[yourEmail@vanderbilt.edu](mailto:yourEmail@vanderbilt.edu)",  
 "uri": null,  
 "createdAt": "2024-07-15T19:07:57",  
 "dataSources": [  
 {  
 "metadata": "<metadata>",  
 "data": "",  
 "name": "api\_documentation.yml",  
 "raw": "",  
 "id": "global/7834905723785897982345088927.content.json",  
 "type": "application/x-yaml"  
 }  
 ]  
 }  
 ]  
}  
```

**Endpoint: /assistant/share (POST)**

* Description: Share an Amplify assistant with other Amplify users.
* Expected Request Data for /assistant/share
  + assistantId (string): Required.
  + recipientUsers (array of strings): Required.
  + note (string)
* Request Body Example for /assistant/share

```

{  
 "data": {  
 "assistantId": "ast/8934572093982034020-9",  
 "recipientUsers": ["[yourEmail@vanderbilt.edu](mailto:yourEmail@vanderbilt.edu)"],  
 "note": "read"  
 }  
}

```

* Example Response for /assistant/share

```

{  
 "success": false,  
 "message": "Unable to share with some users",  
 "failedShares": [  
 "[yourEmail@vanderbilt.edu](mailto:yourEmail@vanderbilt.edu)"  
 ]  
}

```

**Endpoint: /assistant/create (POST)**

* Description: Create or update a customizable Amplify assistant.
* Expected Request Data for /assistant/create
  + name (string): Required.
  + description (string): Required.
  + assistantId (string): Needed if updating an existing assistant. We will provide you with one if creating a new assistant.
  + tags (array of strings): Required.
  + instructions (string): Required.
  + disclaimer (string)
  + uri (string or null)
  + dataSources (array of objects): Required.
  + dataSourceOptions (array of objects)
* Request Body Example for /assistant/create

```

{  
 "data": {  
 "name": "Sample Assistant 3",  
 "description": "This is a sample assistant for demonstration purposes",  
 "assistantId": "",  
 "tags": ["test"],  
 "instructions": "Respond to user queries about general knowledge topics",  
 "disclaimer": "This assistant's responses are for informational purposes only",  
 "dataSources": [  
 {  
 'id': 'e48759073324384kjsf',  
 'name': 'api\_paths\_summary.csv',  
 'type': 'text/csv',  
 'raw': '',  
 'data': '',  
 'key': '[yourEmail@vanderbilt.edu/date/w3ou009we3.json](mailto:yourEmail@vanderbilt.edu/date/w3ou009we3.json)',  
 'metadata': {'name': 'api\_paths\_summary.csv', 'totalItems': 20, 'locationProperties': ['row\_number'], 'contentKey': '[yourEmail@vanderbilt.edu/date/w3ou009we3.json.content.json](mailto:yourEmail@vanderbilt.edu/date/w3ou009we3.json.content.json)', 'createdAt': '2024-07-15T18:58:24.912235', 'totalTokens': 3750, 'tags': [], 'props': {}}  
 }  
 ],  
 "tools": []  
 }  
}

```

* Example Response for /assistant/create

```

{  
 "success": true,  
 "message": "Assistant created successfully",  
 "data": {  
 "assistantId": "astp/3io4u5ipy34jkelkdfweiorwur",  
 "id": "ast/03uio3904583049859482",  
 "version": 1  
 }  
}  
```

**Endpoint: /assistant/delete (POST)**

* Description: Delete an Amplify assistant.
* Expected Request Data for /assistant/delete
  + assistantId (string): Required.
* Request Body Example for /assistant/delete

```

{  
 "data": {  
 "assistantId": "astp/3209457834985793094"  
 }  
}

```

* Example Response for /assistant/delete

```

{  
 "success": true,  
 "message": "Assistant deleted successfully."  
}

```

**Endpoint: /assistant/create/codeinterpreter (POST)**

* Description: Create a new Code Interpreter Assistant.
* Expected Request Data for /assistant/create/codeinterpreter
  + name (string): Required.
  + description (string): Required.
  + tags (array of strings): Required.
  + instructions (string): Required.
  + dataSources (array of strings): Required - id (string): starts with user email (These can be found by calling the file query endpoint)
* Request Body Example for /assistant/create/codeinterpreter

```

{  
 "data": {  
 "name": "Data Analysis Assistant",  
 "description": "An AI assistant specialized in data analysis and visualization",  
 "tags": ["data analysis"],  
 "instructions": "Analyze data files, perform statistical operations, and create visualizations as requested by the user",  
 "dataSources": ["yourEmail@vanderbilt.edu/2024-05-08/0f20f0447b.json"],  
 }  
}

```

* Example Response for /assistant/create/codeinterpreter

```

{  
 "success": true,  
 "message": "Assistant created successfully",  
 "data": {  
 "assistantId": "[yourEmail@vanderbilt.edu/ast/373849029843](mailto:yourEmail@vanderbilt.edu/ast/373849029843)"  
 }  
}

```

**Endpoint: /assistant/chat/codeinterpreter (POST)**

* Description: CHAT WITH CODE INTERPRETER. Establishes a conversation with a Code Interpreter, returning a unique thread identifier that contains your ongoing conversation. Subsequent API calls can utilize this thread ID to append only your new messages to the existing conversation.
* Expected Request Data for /assistant/chat/codeinterpreter
  + assistantId (string): Required
  + threadId (string)
  + messages (array of objects): Required
    - role (string): Required
    - content (string): Required
    - dataSourceIds (list of strings): Required - starts with user email (These can be found by calling the file query endpoint)
* Request Body Example for /assistant/chat/codeinterpreter

```{  
 "data": {  
 "assistantId": "[yourEmail@vanderbilt.edu/ast/439290398](mailto:yourEmail@vanderbilt.edu/ast/439290398)",  
 "messages": [  
 {  
 "role": "user",  
 "content": "Can you tell me something about data analytics and what you are able to do?",  
 "dataSourceIds": ["yourEmail@vanderbilt.edu/2024-05-08/0f20f0447b.json"]  
 }  
 ]  
 }  
}  
```

* Example Response for /assistant/chat/codeinterpreter

```

{

"success": true,

"message": "Chat completed successfully",

"data": {

"threadId": "yourEmail@vanderbilt.edu/thr/442309eb-0772-42d0-b6ef-34e20ee2355e",

"role": "assistant",

"textContent": "I've saved the generated pie chart as a PNG file. You can download it using the link below:\n\n[Download Ice Cream Preferences Pie Chart](sandbox:/mnt/data/ice\_cream\_preferences\_pie\_chart.png)\n",

"content": [

{

"type": "image/png",

"values": {

"file\_key": "yourEmail@vanderbilt.edu/msg\_P0lpFUEY \_pie\_chart.png",

"presigned\_url": "https://vu-amplify-assistants-dev-code-interpreter-files.s3.amazonaws.com/...",

"file\_size": 149878

}

}

]

}

}

```

**Endpoint: /assistant/files/download/codeinterpreter (POST)**

* Description: Download Code Interpreter-generated files via a pre-authenticated URL.
* Expected Request Data for /assistant/files/download/codeinterpreter
  + key (string): Required
  + fileName (string): Not required; will automatically download if given the specific file name.
* Request Body Example for /assistant/files/download/codeinterpreter

```

{  
 "data": {  
 "key": " yourEmail@vanderbilt.edu/msg\_P0lpFUEY \_pie\_chart.png "  
 }  
}  
```

* Example Response for /assistant/files/download/codeinterpreter

```

{  
 "success": true,  
 "downloadUrl": "<Download URL>"  
}  
```

**Endpoint: /assistant/openai/thread/delete (DELETE)**

* Description: Delete a thread, deleting your existing conversation with a code interpreter.
* Query Parameters for /assistant/openai/thread/delete
  + threadId (string): Required
* Example URL Parameter for /assistant/openai/thread/delete
  + [?threadId=yourEmail@vanderbilt.edu/thr/8923420](mailto:?threadId=yourEmail@vanderbilt.edu/thr/8923420)
* Example Response for /assistant/openai/thread/delete

```

{  
 "success": true,  
 "message": "Thread deleted successfully"  
}  
```

**Endpoint: /assistant/openai/delete (DELETE)**

* Description: Delete a code interpreter assistant instance.
* Query Parameters for /assistant/openai/delete
  + assistantId (string): Required
* Example URL Parameter for /assistant/openai/delete
  + [?assistantId=yourEmail@vanderbilt.edu/ast/386233](mailto:?assistantId=yourEmail@vanderbilt.edu/ast/386233)
* Example Response for /assistant/openai/delete

```

{  
 "success": true,  
 "message": "Assistant deleted successfully"  
}

```