### **API Documentation**

#### **Endpoints**

#### **1. Generate Template**

| **Endpoint** | **Method** |
| --- | --- |
| /generate\_template | POST |

**Description**: Generates a writing template based on the type of book. This should be given to the text field of the editor as a Placeholder.

**Request Body**:

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| book\_type | string | The type of book (e.g., Novel, Short Story). |

**Request Example**:

json

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{

"book\_type": "Novel"

}

**Response**:

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| template | string | Suggested template text to start writing the book. |

**Response Example**:

json

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{

"template": "The most important thing is to simply start writing. Don't worry about perfection or structure at first..."

}

#### 

#### **2. Analyze Paragraph**

| **Endpoint** | **Method** |
| --- | --- |
| /analyze\_paragraph | POST |

**Description**: Analyzes the given paragraph, provides suggestions, strengths, weaknesses, and various ratings.

**Request Body**:

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| book\_type | string | The type of book. |
| book\_title | string | The title of the book. |
| novel\_text | string | The text content of the book. |

**Request Example**:

json

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{

"book\_type": "Novel",

"book\_title": "The Great Adventure",

"novel\_text": "It was a dark and stormy night..."

}

**Response**:

| **Field** | **Type** | **Description** |
| --- | --- | --- |
| Summary | string | Summary of the last paragraphs. |
| Suggestions | list of strings | Suggestions to improve the last paragraph. |
| Strengths | list of strings | Strengths of the last paragraph. |
| Weaknesses | list of strings | Weaknesses of the last paragraph. |
| Overall interest | float/string | Overall interest rating out of 10. |
| Vivid Rating | float/string | Vivid rating out of 10. |
| Build up | string | Build up status (Strong, Weak, Average). |
| Irregularities | string | Irregularities found in the last paragraph. |
| References | string | References for further reading. |

**Response Example**:

json

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{

"Summary": "The protagonist's background is well discussed...",

"Suggestions": ["Add more descriptive language", "Introduce a plot twist"],

"Strengths": ["Strong character development", "Engaging plot"],

"Weaknesses": ["Lacks vivid descriptions", "Pacing is slow"],

"Overall interest": 7.5,

"Vivid Rating": 6.0,

"Build up": "Strong",

"Irregularities": "None",

"References": "On Writing by Stephen King, Bird by Bird by Anne Lamott"

}

### **Functions Used**

#### **start\_template(book\_type, api\_key)**

| **Description** | **Generates a writing template based on the provided book type.** |
| --- | --- |
| **Parameters** |  |
| book\_type | string |
| api\_key | string |
| **Returns** | A string containing the generated template text. |

#### **summarize\_paragraphs(paragraphs, api\_key)**

| **Description** | **Summarizes the given paragraphs using the Google Generative AI API.** |
| --- | --- |
| **Parameters** |  |
| paragraphs | string |
| api\_key | string |
| **Returns** | A string containing the summary of the paragraphs. |

#### 

#### **get\_last\_paragraph\_and\_summary(data)**

| **Description** | **Extracts the last paragraph and generates a summary of the previous paragraphs.** |
| --- | --- |
| **Parameters** |  |
| data | string |
| **Returns** | A tuple containing the summary, last paragraph, and the paragraph number. |

#### 

#### **create\_prompt(summary, last\_paragraph, paragraph\_number, book\_type, book\_title)**

| **Description** | **Creates a prompt for the AI model to analyze the last paragraph.** |
| --- | --- |
| **Parameters** |  |
| summary | string |
| last\_paragraph | string |
| paragraph\_number | int |
| book\_type | string |
| book\_title | string |
| **Returns** | A string containing the prompt. |

#### **analyze\_paragraph(prompt)**

| **Description** | **Requests analysis and suggestions from the AI model.** |
| --- | --- |
| **Parameters** |  |
| prompt | string |
| **Returns** | A string containing the AI's response. |

#### **json\_response(response, api\_key)**

| **Description** | **Converts the analysis response to JSON format.** |
| --- | --- |
| **Parameters** |  |
| response | string |
| api\_key | string |
| **Returns** | A string containing the JSON formatted response. |

### **Example Workflow**

#### **Generate Template:**

**Request**:

json

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{

"book\_type": "Novel"

}

**Response**:

json

Copy code

{

"template": "Once upon a time in a land far, far away..."

}

#### **Analyze Paragraph:**

**Request**:

json

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{

"book\_type": "Novel",

"book\_title": "The Great Adventure",

"novel\_text": "It was a dark and stormy night..."

}

**Response**:

json

Copy code

{

"Summary": "The previous paragraphs discussed the protagonist's background...",

"Suggestions": ["Add more descriptive language", "Introduce a plot twist"],

"Strengths": ["Strong character development", "Engaging plot"],

"Weaknesses": ["Lacks vivid descriptions", "Pacing is slow"],

"Overall interest": 7.5,

"Vivid Rating": 6.0,

"Build up": "Strong",

"Irregularities": "None",

"References": "On Writing by Stephen King, Bird by Bird by Anne Lamott"

}

### **Error Handling**

#### **Common Errors**

| **Error Code** | **Error** | **Description** |
| --- | --- | --- |
| 400 | Bad Request | The request body is missing required fields or has invalid data. |
| **Response** |  |  |

json

Copy code

{

"error": "Invalid request. Please provide the required fields."

}

| 500 | Internal Server Error | An error occurred on the server. | | **Response** | | |

json

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{

"error": "An internal server error occurred. Please try again later."

}