**Take Home Technical Assessment – Question 1**

*AI Acknowledgment : I have used ChatGPT help to understand what Trello was and how to generate the API keys within Trello API and what is the Power-up feature. I also asked it how to create boards, cards in the UI. So most of it was help in navigation. The actual API coding part felt pretty easy.*

**Step1 : Create an API Key and a Powerup**

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**Step2 : Generate an API Key**

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Generally, we shouldn’t share secrets in a document but since this is a Technical Assessment I am sharing this with you for verification purposes.

API Key : 4ce723d9a5b1e2d799a267ba38717ffc

Secret : 052b33801e78df70bc6c5cb425205eec8abb25d55252f77a8df31010ea9d1736

**Step3 : Generate an OAuth Token**

OAuth Token : ATTA2086e593663f3fe77a3fc02246c9c9a7242ae05d4a2cc4d7a2fa51373fc5a7170C7BE20F

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**Step4 : Create and Get the Board URL**

I have created a board called Canonical

Board ID : WcVHSTrk  
Board Name : canonical

Board URL : <https://trello.com/b/WcVHSTrk/canonical>

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**Step5: Getting the Lists based on the Board**

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**Step6 : Creating a Card**

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**Step 7 : Adding Comments to the Card**

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**Overall Steps & Thinking**

First, I didn’t know what Trello was so I looked up Trello & I understood the REST API Documentation of Trello, How to create boards, cards & add comments from the UI

TRELLO API : <https://developer.atlassian.com/cloud/trello/rest/api-group-actions/#api-group-actions> **The rest of the steps were a cakewalk, as we just have to use the API’s to create a card and add a comment!**

**Steps to Create and Add Cards with Comments to a Trello Board**

1. **Get Trello API Credentials:**
   * First, I obtained my **API Key** from Trello’s API page and **OAuth Token** by generating it through Trello's OAuth token generator.
2. **Set Up the Project:**
   * I created a local Git repository to organize my code and then initialized the project.
   * I wrote a **README file** with instructions on how to run the program, explaining the overall workflow.
   * All code changes were committed to the Git repository to keep track of versions.
3. **Retrieve List IDs for the Board:**
   * I used the **Trello API** to fetch the lists (columns) for my specific board using the following API call:

bash

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GET /boards/<board-id>/lists

* + The response included the **List IDs**, which I used to determine where to place the card.

1. **Create a Card in a List:**
   * I created a card in one of the lists using the **Trello API**:

bash

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POST /cards

* + - The parameters I provided were:
      * name: Title of the card.
      * desc: Description of the card.
      * idList: List ID where the card should go.
      * labels: Optional, a list of labels to categorize the card.
  + After making the API request, I got a successful response and a confirmation that the card was created.

1. **Add Comments to the Card:**
   * I used the **Trello API** to add a comment to the card by making another API call:

bash

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POST /cards/<card-id>/actions/comments

* + - I provided the text parameter to add the comment to the card.

1. **Test the Program:**
   * I tested the program by creating a card in one of the lists and adding a comment to ensure everything worked correctly.
   * The card appeared on my Trello board with the description and comment as expected.

**Queries I made to GPT (An example) as aforementioned.**

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I took no other help, because this felt straightforward and do-able task once I understood the APIs and also the requirement.   
  
Thank you,   
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