**ML\_OPS ASSIGNMENT-3**

Name: Nelli Uma Maheswar Reddy

Roll No: 142502018

Solution 1:

ERROS IN GIVEN JSON FILE:

* **Missing comma after** "id": 102 in the second student object.
* **Missing comma between the second and third student objects** in the students array (no comma after the closing } of the Alex Chen object).
* **Missing comma between array elements** in the second student's courses: ["CS101" "CS102", "STAT101”] needs a comma between "CS101" and "CS102".
* **Boolean literal casing**: "active": True — JSON requires true (lowercase).
* **Invalid value undefined**: "advisor": undefined — undefined is not valid JSON (use null or remove the key).
* **id type inconsistency**: "id": "103” IDs are numbers for the other students; make this a number (103) for consistency.
* **Trailing comma inside object**: "special programs": ["honors", "research"], trailing comma before the } is invalid in JSON.
* **Missing comma between top-level fields**: there is no comma between "last updated": "2024-09-15T10:30:00Z" and "total students": 3.

Corrected JSON File:

{

"students": [

{

"id": 101,

"name": "Sarah Johnson",

"courses": ["CS101", "MATH200", "ENG150"],

"gpa": 3.85,

"active": true,

"graduation\_date": null

},

{

"id": 102,

"name": "Alex Chen",

"courses": ["CS101", "CS102", "STAT101"],

"gpa": 3.92,

"active": true,

"advisor": null,

"notes": "Excellent student with strong analytical skills"

},

{

"id": 103,

"name": "Maria Rodriguez",

"courses": [],

"gpa": 3.67,

"active": false,

"special\_programs": ["honors", "research"]

}

],

"last\_updated": "2024-09-15T10:30:00Z",

"total\_students": 3

}

Question 2:

* **How many feature flags are currently defined, and which ones are active?**  
  Ans) There are 2 feature flags defined. Active**:** new\_ui. Inactive**:** analytics.
* **What happens when the log file reaches 100MB?**

Ans) The log file will be rotated when it hits 100MB , old logs archived and a new empty log file starts.

* **If you wanted to make the server accessible only from localhost, what should you change?**

Ans) Change host = "0.0.0.0" to host = "127.0.0.1" (or "localhost") in the [server] section.

* **Calculate the total number of seconds that cached items will remain valid.**

Ans) Cached items remain valid for 3600 seconds (1 hour).

* **Explain the difference between the [feature\_flags] and [[feature\_flags]] syntax.**

Ans) [feature\_flags] defines a single table, while [[feature\_flags]] defines an array of tables (multiple feature flag entries).