## **Assignment -3**

## **Question 1: Identify and Fix Errors in JSON**

Errors in the provided JSON:

- 1. Missing comma after "id": 102
- 2. Missing comma between courses: ["CS101" "CS102", "STAT101"]
- 3. Boolean values must be lowercase: "True" → "true"
- 4. Undefined values not allowed in JSON: "advisor": undefined → should be null or a string
- 5. String not properly closed in "notes"
- 6. Missing comma between objects in students array
- 7. ID 103 should be a number, not a string
- 8. Extra trailing comma after last element in "special\_programs"
- 9. Missing comma between "last\_updated" and "total\_students"

## **Corrected JSON:**

```
"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: TOML Configuration Analysis**

- a. There are 2 feature flags: "new\_ui" and "analytics". Currently, only "new\_ui" is active.
- b. When the log file reaches 100MB, it will rotate since rotate = true.
- c. To make the server accessible only from localhost, change host = "127.0.0.1".
- d. Cached items will remain valid for 3600 seconds (1 hour).
- e. [feature\_flags] defines a single table, while [[feature\_flags]] defines an array of tables. This allows multiple feature flags to be listed under the same key.