

Endpoint Being Tested: http://127.0.0.1:5000/api/grading/query

Case: Successful grading document query

Request Method: POST

Inputs:

```
{
  "query": "What is the grading criteria for software engineering?",
  "k": 1,
  "score_threshold": 0.6
}
```

Expected Output:

HTTP Status Code: 200 and JSON with 'answer' and 'documents'

Actual Output:

```
HTTP Status Code: 200
JSON: {"answer": "The final grade (T) is calculated as:  $T = 0.05GAA + 0.2Qz2 + 0.4F + 0.1GP1 + 0.1GP2 + 0.1PP + 0.05CP$ , where GAA is the average of the first 10 weekly assignments, Qz2 is the Quiz 2 score, F is the end-term exam score, GP1 and GP2 are group project milestone scores, PP is the project presentation score, and CP is the course participation score. Eligibility requirements include a minimum average on the first 7 weekly assignments and submission of the group project.",
"documents": [{"content": "2. Software Engineering\n\nQuiz 1: No Quiz 1 Quiz 2: March 16 2025 End term: April 13 2025\n\nAbove to be attended in person at designated centres.\n\nEligibility to write end term exam:\n\nAverage of the best 5 out of the first 7 weekly assignment scores  $\geq 40/100$  AND submission of Group project Milestone [1-3]\n\nEligibility to get final course grade: Attending the End term exam AND Submission of group project (All milestones) is mandatory for course grade AND score in group project  $> 0$ \n\nOverall score for eligible students:\n\nGAA = Average score in First 10 weekly graded assignments\n\nQz1 = NOT THERE IN THIS COURSE\n\nQz2 = score in Quiz II (0, if not attempted)\n\nGroup Project- Milestone 1-3 (After week 6) - GP1\n\nGroup project - Milestone 4-6 (After week 12) - GP2\n\nProject Presentation - PP\n\nCourse participation activity - CP\n\nF - score in End Term exam\n\n $T = 0.05GAA + 0.2Qz2 + 0.4F + 0.1GP1 + 0.1GP2 + 0.1PP + 0.05CP$ \n\n(More details about the Group project will be given in the course).", "source": "JAN 2025 TERM GRADING DOCUMENT"}]}
```

Result: Success

Case: *Missing required 'query' parameter*

Request Method: POST

Inputs:

```
{
  "k": 1,
  "score_threshold": 0.6
}
```

Expected Output:

HTTP Status Code: 400 and error message indicating 'Query is required'

Actual Output:

HTTP Status Code: 400
JSON: {"error": "Query is required"}

Result: Success

Case: *Internal server error while processing query*

Request Method: POST

Inputs:

```
{
  "query": null
}
```

Expected Output:

HTTP Status Code: 500 and error message

Actual Output:

HTTP Status Code: 500
JSON: {"error": "Error processing query: 'NoneType' object has no attribute 'replace'"}

Result: Success
