SIT 725

Applied Software Engineering

Task 2.2P

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My repository link:

JudsonJia/SIT725: SIT725 - Applied Software Engineering weekly homework.

Web calculator:

SIT725/Task 2.2P/Web Calculator at main · JudsonJia/SIT725

GET Requests (URL Parameters):

GET /add/5/3 → Add 5 + 3

GET /subtract/10/4 → Subtract 10 - 4

GET /multiply/6/7 → Multiply 6 × 7

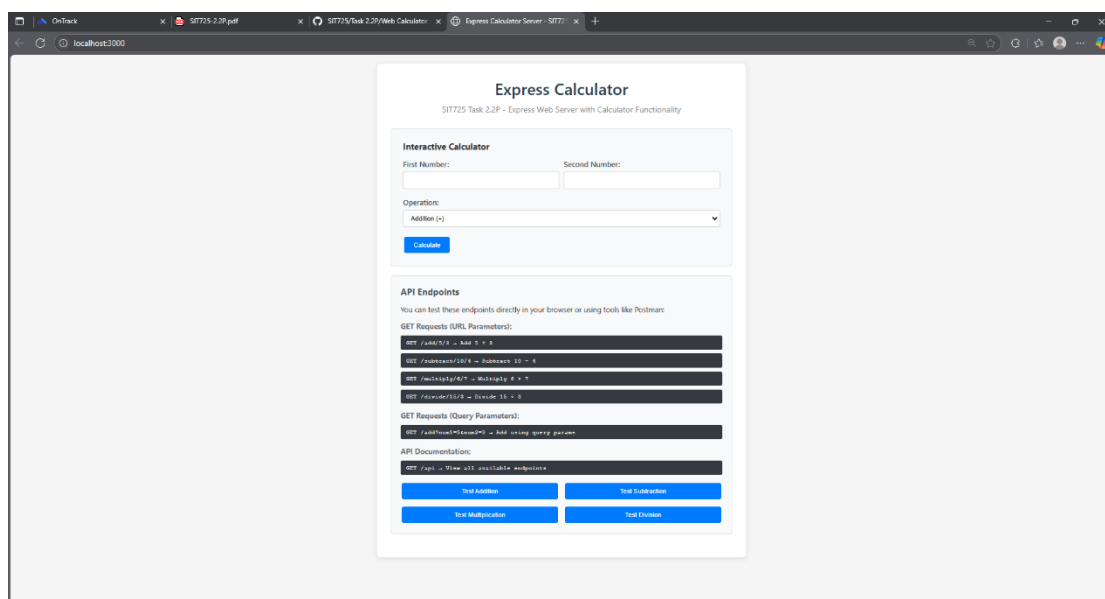GET /divide/15/3 → Divide 15 ÷ 3

GET Requests (Query Parameters):

GET /add?num1=5&num2=3 → Add using query params

API Documentation:

GET /api → View all available endpoints

Test:

Homepage:

Add testing:

Subtraction Testing:

Multiplication Testing:

Division Testing:
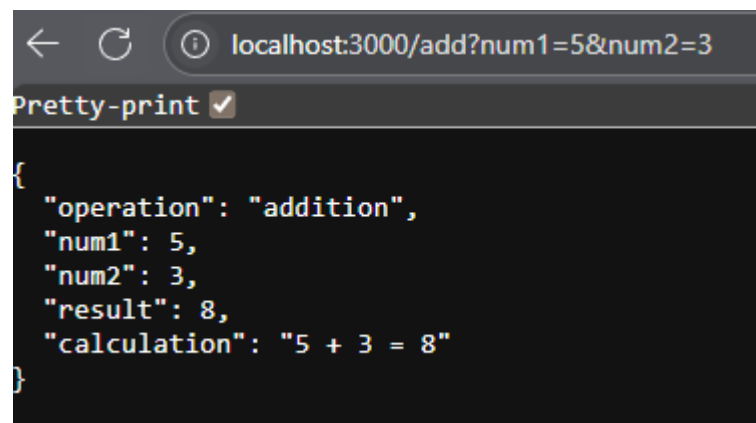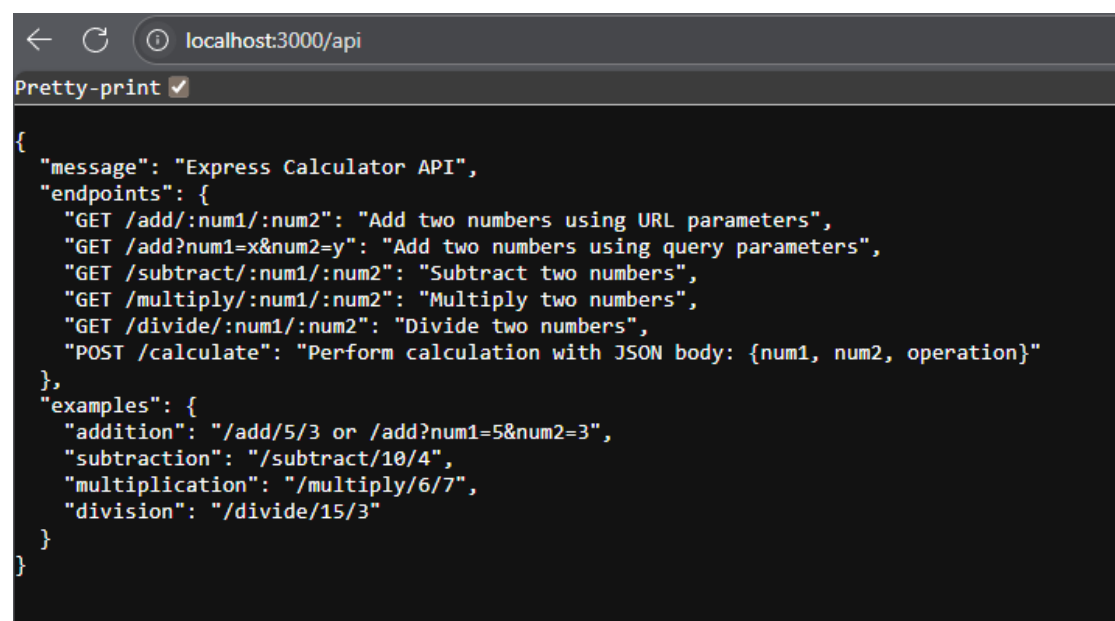
Add using query params:


```
localhost:3000/add?num1=5&num2=3
Pretty-print ✔

{
  "operation": "addition",
  "num1": 5,
  "num2": 3,
  "result": 8,
  "calculation": "5 + 3 = 8"
}
```

View all available endpoints:


```
localhost:3000/api
Pretty-print ✔

{
  "message": "Express Calculator API",
  "endpoints": {
    "GET /add/:num1/:num2": "Add two numbers using URL parameters",
    "GET /add?num1=x&num2=y": "Add two numbers using query parameters",
    "GET /subtract/:num1/:num2": "Subtract two numbers",
    "GET /multiply/:num1/:num2": "Multiply two numbers",
    "GET /divide/:num1/:num2": "Divide two numbers",
    "POST /calculate": "Perform calculation with JSON body: {num1, num2, operation}"
  },
  "examples": {
    "addition": "/add/5/3 or /add?num1=5&num2=3",
    "subtraction": "/subtract/10/4",
    "multiplication": "/multiply/6/7",
    "division": "/divide/15/3"
  }
}
```