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Branch: CSE (A)

Sem: VI

Pipeline Script:

```
pipeline {
    agent any

    environment {
        DOCKERHUB_CREDENTIALS = credentials('docker-hub-credentials')
    }

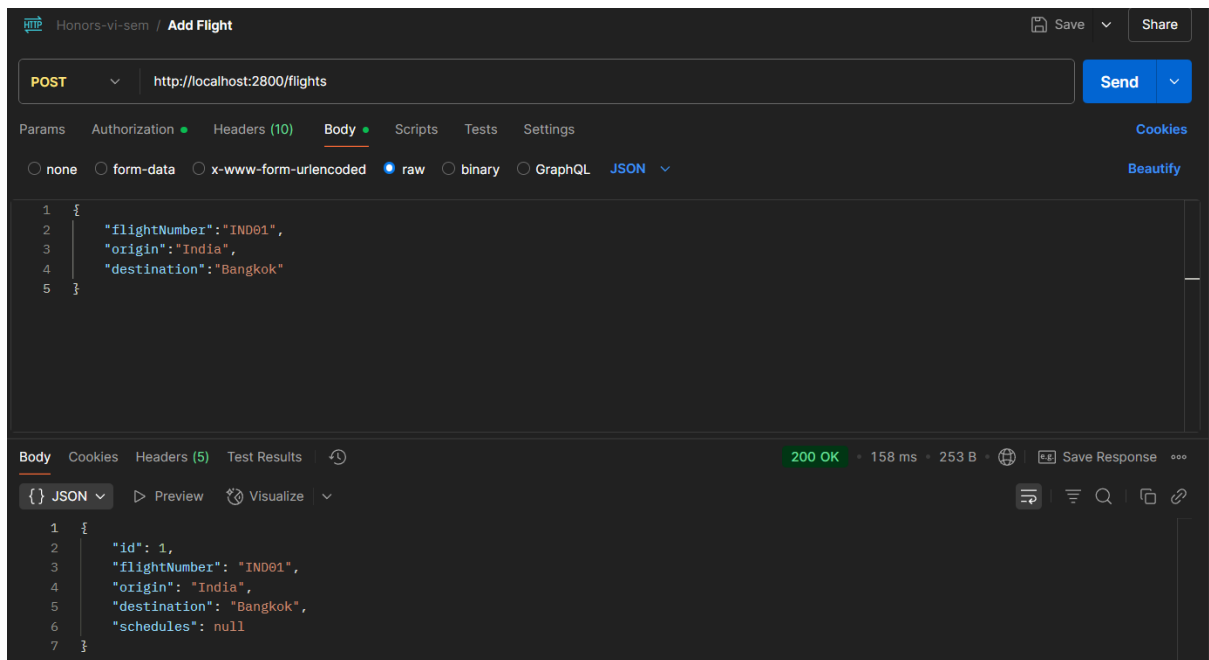
    stages {
        stage('Checkout') {
            steps {
                git branch: 'main', url: 'https://github.com/mayankjaiswal27/honors-vi-final.git'
            }
        }

        stage('Build JAR in Docker') {
            steps {
                bat 'docker pull maven:3.8.4-openjdk-17'
                bat '''
                    docker run --rm -v "%cd%":/app -w /app maven:3.8.4-openjdk-17 mvn clean package
                '''
            }
            post {
                always {
                    junit 'target/surefire-reports/*.xml'
                }
            }
        }

        stage('Build and Push Docker Image') {
            steps {
                bat '''
                    docker build -t mayankjaiswal27/airline-management-system:latest .
                    echo %DOCKERHUB_CREDENTIALS_PSW% | docker login -u %DOCKERHUB_CREDENTIALS_USR% --password-stdin
                    docker push mayankjaiswal27/airline-management-system:latest
                '''
            }
        }

        stage('Deploy to EC2') {
            steps {
                sshPublisher(
                    publishers: [
                        sshPublisherDesc(
                            configName: 'honors',
                            transfers: [
                                sshTransfer(
                                    execCommand: '''
                                        docker pull mayankjaiswal27/airline-management-system:latest
                                        docker stop airline-app || true
                                        docker rm airline-app || true
                                        docker run -d -p 8080:8080 --name airline-app mayankjaiswal27/airline-management-system:latest
                                    '''
                                )
                            ],
                            usePromotionTimestamp: false,
                            useWorkspaceInPromotion: false,
                            verbose: true
                        )
                    ],
                    continueOnError: false,
                    failOnError: true
                )
            }
        }
    }
}
```

1) Localhost

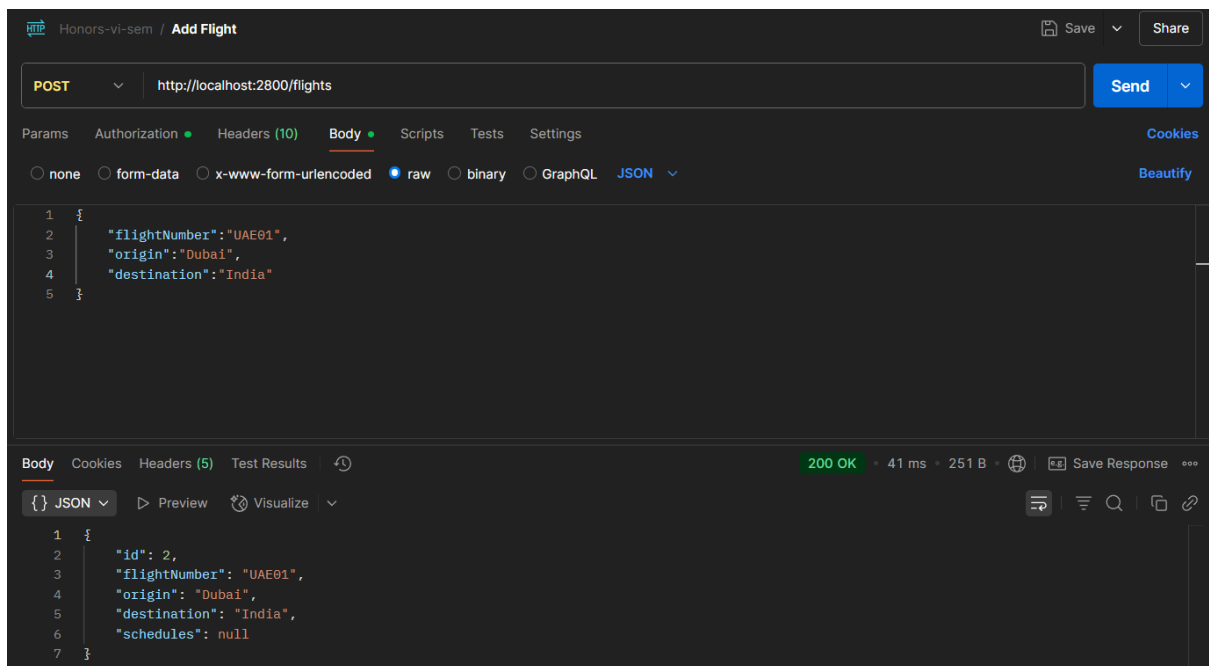


Postman interface showing a POST request to `http://localhost:2800/flights`. The request body is a JSON object:

```
1 {
2   "flightNumber": "IND01",
3   "origin": "India",
4   "destination": "Bangkok"
5 }
```

The response is **200 OK** with a status of 158 ms and 253 B. The response body is a JSON object:

```
1 {
2   "id": 1,
3   "flightNumber": "IND01",
4   "origin": "India",
5   "destination": "Bangkok",
6   "schedules": null
7 }
```



Postman interface showing a POST request to `http://localhost:2800/flights`. The request body is a JSON object:

```
1 {
2   "flightNumber": "UAE01",
3   "origin": "Dubai",
4   "destination": "India"
5 }
```

The response is **200 OK** with a status of 41 ms and 251 B. The response body is a JSON object:

```
1 {
2   "id": 2,
3   "flightNumber": "UAE01",
4   "origin": "Dubai",
5   "destination": "India",
6   "schedules": null
7 }
```

POST http://localhost:2800/flights Send

Params Authorization Headers (10) Body Scripts Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   "flightNumber": "UAE01",
3   "origin": "Dubai",
4   "destination": "USA"
5 }
```

Body Cookies Headers (4) Test Results 500 Internal Server Error 17 ms 262 B Save Response

{ JSON Preview Visualize

```
1 {
2   "timestamp": "2025-05-16T17:22:45.767+00:00",
3   "status": 500,
4   "error": "Internal Server Error",
5   "path": "/flights"
6 }
```

Honors-vi-sem / Create Schedule Save Share

POST http://localhost:2800/schedules Send

Params Authorization Headers (10) Body Scripts Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   "departureTime": "2025-05-17T04:00:00",
3   "arrivalTime": "2025-05-17T09:00:00",
4   "price": 5000.00,
5   "flight": {
6     "id": 1
7   }
8 }
```

Body Cookies Headers (5) Test Results 200 OK 39 ms 261 B Save Response

{ JSON Preview Visualize

```
1 {
2   "id": 2,
3   "departureTime": "2025-05-17T04:00:00",
4   "arrivalTime": "2025-05-17T09:00:00",
5   "price": 5000.0
6 }
```

POST

http://localhost:2800/schedules

Send

ParamsAuthorizationHeaders (10)BodyScriptsTestsSettingsCookies

noneform-datax-www-form-urlencodedrawbinaryGraphQLJSON

```
1 {
2   "departureTime": "2025-05-19T08:00:00",
3   "arrivalTime": "2025-05-19T14:00:00",
4   "price": 8000.00,
5   "flight": {
6     "id": 2
7   }
8 }
```

BodyCookiesHeaders (5)Test Results200 OK17 ms261 BSave Response

JSON

PreviewVisualize

```
1 {
2   "id": 3,
3   "departureTime": "2025-05-19T08:00:00",
4   "arrivalTime": "2025-05-19T14:00:00",
5   "price": 8000.0
6 }
```

Honors-vi-sem / Create Ticket

SaveShare

POST

http://localhost:2800/tickets

Send

ParamsAuthorizationHeaders (10)BodyScriptsTestsSettingsCookies

noneform-datax-www-form-urlencodedrawbinaryGraphQLJSON

```
1 {
2   "passengerName": "Mayank Jaiswal",
3   "schedule": {
4     "id": 2
5   }
6 }
```

BodyCookiesHeaders (5)Test Results200 OK36 ms205 BSave Response

JSON

PreviewVisualize

```
1 {
2   "id": 1,
3   "passengerName": "Mayank Jaiswal"
4 }
```

Honors-vi-sem / Get Ticket details

SaveShare

GET

http://localhost:2800/tickets/1

Send

ParamsAuthorizationHeaders (7)BodyScriptsTestsSettingsCookies

Query Params

Key	Value	Description	Bulk Edit
Key	Value	Description	

BodyCookiesHeaders (5)Test Results200 OK13 ms205 BSave Response

JSON

PreviewVisualize

```
1 {
2   "id": 1,
3   "passengerName": "Mayank Jaiswal"
4 }
```

Honors-vi-sem / Fetch Flights

GET http://localhost:2800/flights/1

Send

Params Authorization Headers (8) Body Scripts Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

1

Body Cookies Headers (5) Test Results 200 OK 10 ms 348 B Save Response

{ JSON Preview Visualize

```
1 {
2   "id": 1,
3   "flightNumber": "IND01",
4   "origin": "India",
5   "destination": "Bangkok",
6   "schedules": [
7     {
8       "id": 2,
9       "departureTime": "2025-05-17T04:00:00",
10      "arrivalTime": "2025-05-17T09:00:00",
11      "price": 5000.0
12    }
13  ]
14 }
```

GET http://localhost:2800/flights?sort=desc

Send

Params Authorization Headers (8) Body Scripts Tests Settings Cookies

Body Cookies Headers (5) Test Results 200 OK 10 ms 533 B Save Response

{ JSON Preview Visualize

```
2 {
3   "id": 2,
4   "flightNumber": "UAE01",
5   "origin": "Dubai",
6   "destination": "India",
7   "schedules": [
8     {
9       "id": 3,
10      "departureTime": "2025-05-19T08:00:00",
11      "arrivalTime": "2025-05-19T14:00:00",
12      "price": 8000.0
13    }
14  ],
15  {
16    "id": 1,
17    "flightNumber": "IND01",
18    "origin": "India",
19    "destination": "Bangkok",
20    "schedules": [
21      {
22        "id": 2,
23        "departureTime": "2025-05-17T04:00:00",
24        "arrivalTime": "2025-05-17T09:00:00",
25        "price": 5000.0
26      }
27    ]
28  }
```

Honors-vi-sem / Fetch Flights asc

GET http://localhost:2800/flights/1/schedules?date=2025-05-19T08:00:00,2025-05-19T14:00:00

Send

Params Authorization Headers (8) Body Scripts Tests Settings Cookies

Body Cookies Headers (5) Test Results 200 OK 17 ms 263 B Save Response

{ JSON Preview Visualize

```
1 [
2   {
3     "id": 2,
4     "departureTime": "2025-05-17T04:00:00",
5     "arrivalTime": "2025-05-17T09:00:00",
6     "price": 5000.0
7   }
8 ]
```

HTTP Honors-vi-sem / **Delete tickets** Save Share

DELETE ▼ Send ▼

Params Authorization Headers (7) Body Scripts Tests Settings Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
	Key	Value	Description		

Body Cookies Headers (4) Test Results ↺ 200 OK • 386 ms • 123 B 🌐 Save Response ...

Raw ▼ ▶ Preview 🔍 Visualize ▼ 🔄 🔍 📄 🔗

1

2) AWS EC2

HTTP Honors-vi-sem (EC2) / **Fetch Flights** Save Share

GET ▼ Send ▼

Params Authorization Headers (7) Body Scripts Tests Settings Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
	Key	Value	Description		

Body Cookies Headers (5) Test Results ↺ 200 OK • 1.13 s • 166 B 🌐 Save Response ...

{ } JSON ▼ ▶ Preview 🔍 Visualize ▼ 🔄 🔍 📄 🔗

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Honors-vi-sem (Localhost) / Add Flight

POST http://34.238.166.176:8080/flights

Params Authorization Headers (10) Body Scripts Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   "flightNumber": "IND01",
3   "origin": "India",
4   "destination": "Bangkok"
5 }
```

Body Cookies Headers (5) Test Results 200 OK · 901 ms · 253 B Save Response

{ } JSON Preview Visualize

```
1 {
2   "id": 1,
3   "flightNumber": "IND01",
4   "origin": "India",
5   "destination": "Bangkok",
6   "schedules": null
7 }
```

Honors-vi-sem (Localhost) / Add Flight

POST http://34.238.166.176:8080/flights

Params Authorization Headers (10) Body Scripts Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   "flightNumber": "UAE01",
3   "origin": "Dubai",
4   "destination": "Bangkok"
5 }
```

Body Cookies Headers (5) Test Results 200 OK · 239 ms · 253 B Save Response

{ } JSON Preview Visualize

```
1 {
2   "id": 2,
3   "flightNumber": "UAE01",
4   "origin": "Dubai",
5   "destination": "Bangkok",
6   "schedules": null
7 }
```

Postman interface for the "Create Schedule" endpoint. The request is a POST to `http://34.238.166.176:8080/schedules`. The request body is raw JSON:

```
1 {
2   "departureTime": "2025-05-17T08:00:00",
3   "arrivalTime": "2025-05-17T14:00:00",
4   "price": 5000.00,
5   "flight": {
6     "id": 1
7   }
8 }
```

The response is a 200 OK status, 496 ms, 261 B. The response body is JSON:

```
1 {
2   "id": 1,
3   "departureTime": "2025-05-17T08:00:00",
4   "arrivalTime": "2025-05-17T14:00:00",
5   "price": 5000.0
6 }
```

Postman interface for the "Create Schedule" endpoint. The request is a POST to `http://34.238.166.176:8080/schedules`. The request body is raw JSON:

```
1 {
2   "departureTime": "2025-05-19T08:00:00",
3   "arrivalTime": "2025-05-19T14:00:00",
4   "price": 8000.00,
5   "flight": {
6     "id": 2
7   }
8 }
```

The response is a 200 OK status, 239 ms, 261 B. The response body is JSON:

```
1 {
2   "id": 2,
3   "departureTime": "2025-05-19T08:00:00",
4   "arrivalTime": "2025-05-19T14:00:00",
5   "price": 8000.0
6 }
```


Postman interface for the **Create Ticket** endpoint.

Request:

- Method: **POST**
- URL: **http://34.238.166.176:8080/tickets**
- Body (raw):

```
1 {
2   "passengerName": "Mayank Jaiswal",
3   "schedule": {
4     "id": 1
5   }
6 }
```

Response:

- Status: **200 OK**
- Body (JSON):

```
1 {
2   "id": 1,
3   "passengerName": "Mayank Jaiswal"
4 }
```

Postman interface for the **Create Schedule** endpoint.

Request:

- Method: **POST**
- URL: **http://34.238.166.176:8080/schedules**
- Body (raw):

```
1 {
2   "departureTime": "2025-05-20T08:00:00",
3   "arrivalTime": "2025-05-19T14:00:00",
4   "price": 8000.00,
5   "flight": {
6     "id": 2
7   }
8 }
```

Response:

- Status: **500 Internal Server Error**
- Body (JSON):

```
1 {
2   "timestamp": "2025-05-16T17:34:14.301+00:00",
3   "status": 500,
4   "error": "Internal Server Error",
5   "path": "/schedules"
6 }
```

GET

http://34.238.166.176:8080/flights/1

Send

ParamsAuthorizationHeaders (8)BodyScriptsTestsSettings

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BodyCookiesHeaders (5)Test Results

200 OK • 271 ms • 348 B • Save Response

{ } JSON

PreviewVisualize

```
1 {
2   "id": 1,
3   "flightNumber": "IND01",
4   "origin": "India",
5   "destination": "Bangkok",
6   "schedules": [
7     {
8       "id": 1,
9       "departureTime": "2025-05-17T08:00:00",
10      "arrivalTime": "2025-05-17T14:00:00",
11      "price": 5000.0
12    }
13  ]
14 }
```

HTTP Honors-vi-sem (Localhost) / Delete tickets

SaveShare

DELETE

http://34.238.166.176:8080/tickets/1

Send

ParamsAuthorizationHeaders (7)BodyScriptsTestsSettings

Query Params

	Key	Value	Description	...	Bulk Edit
	Key	Value	Description		

BodyCookiesHeaders (4)Test Results

200 OK • 851 ms • 123 B • Save Response

Raw

PreviewVisualize

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