



# BS in Data Science and Applications

Software Engineering

Milestone 5

(Test Cases)

**Topic** Gen AI Integration with Seek portal.

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## Super Seek API Test Cases

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This Markdown file documents tests for the Super Seek API, which manages educational content and user interactions.

### 1. CONTENT MANAGEMENT

#### 1.1. /contents

##### 1.1.1 Test: test\_get\_available\_weeks\_successful()

- **Description:** Tests successful retrieval of available weeks for content.
- **Example - True Scenario:**

```
response = requests.get(f"{BASE_URL}/contents")
assert response.status_code == 200
assert "weeks" in response.json()
```

- **Example – False Scenario:**

```
response = requests.get(f"{BASE_URL}/contents")
assert response.status_code != 404
```

#### 1.2. /contents/{week}

##### 1.2.1 Test: test\_get\_content\_for\_week\_successful()

- **Description:** Tests successful retrieval of content titles for a specific week.
- **Example - True Scenario:**

```
week_number = 1
response = requests.get(f"{BASE_URL}/contents/{week_number}")
assert response.status_code == 200
assert response.json()["week"] == week_number
assert "lectures" in response.json()
assert "assignments" in response.json()
```

- **Example – False Scenario:**

```
week_number = 10
response = requests.get(f"{BASE_URL}/contents/{week_number}")
assert response.status_code == 404
```

##### 1.2.2 Test: test\_get\_content\_for\_invalid\_week()

- **Description:** Tests retrieval of content for a non-existing week.
- **Example - True Scenario:**

```
week_number = -1
response = requests.get(f"{BASE_URL}/contents/{week_number}")
assert response.status_code == 400
```



- **Example – False Scenario:**

```
week_number = 1
response = requests.get(f"{BASE_URL}/contents/{week_number}")
assert response.status_code != 400
```

### 1.3. /lec/{lec\_id}/{week}

#### 1.3.1. Test: test\_get\_lecture\_details\_successful()

- **Description:** Tests successful retrieval of lecture details.
- **Example - True Scenario:**

```
lec_id = 101
week_number = 1
response = requests.get(f"{BASE_URL}/lec/{lec_id}/{week_number}")
assert response.status_code == 200
assert response.json()["lec_id"] == lec_id
```

- **Example – False Scenario:**

```
lec_id = 999
week_number = 1
response = requests.get(f"{BASE_URL}/lec/{lec_id}/{week_number}")
assert response.status_code == 404
```

#### 1.3.2. Test: test\_get\_lecture\_details\_invalid\_id()

- **Description:** Tests retrieval of lecture details with an invalid lecture ID.
- **Example - True Scenario:**

```
lec_id = "invalid"
week_number = 1
response = requests.get(f"{BASE_URL}/lec/{lec_id}/{week_number}")
assert response.status_code == 400
```

- **Example – False Scenario:**

```
lec_id = 101
week_number = 1
response = requests.get(f"{BASE_URL}/lec/{lec_id}/{week_number}")
assert response.status_code != 400
```

### 1.4. /assignment/{assign\_id}/{week}

#### 1.4.1. Test: test\_get\_assignment\_details\_successful()

- **Description:** Tests successful retrieval of assignment details.
- **Example - True Scenario:**

```
assign_id = 201
week_number = 1
response = requests.get(f"{BASE_URL}/assignment/{assign_id}/{week_number}")
assert response.status_code == 200
assert response.json()["assign_id"] == assign_id
```



- **Example – False Scenario:**

```
assign_id = 888
week_number = 1
response = requests.get(f"{BASE_URL}/assignment/{assign_id}/{week_number}")
assert response.status_code == 404
```

#### 1.4.2. Test: test\_get\_assignment\_details\_invalid\_id()

- **Description:** Tests retrieval of assignment details with an invalid assignment ID.
- **Example - True Scenario:**

```
assign_id = -1
week_number = 1
response = requests.get(f"{BASE_URL}/assignment/{assign_id}/{week_number}")
assert response.status_code == 400
```

- **Example – False Scenario:**

```
assign_id = 201
week_number = 1
response = requests.get(f"{BASE_URL}/assignment/{assign_id}/{week_number}")
assert response.status_code != 400
```

### 1.5./solve\_assignment/{assign\_id}

#### 1.5.1. Test: test\_submit\_assignment\_successful()

- **Description:** Tests successful submission of an assignment.
- **Example - True Scenario:**

```
assign_id = 201
submission_data = {
    "user_id": 1,
    "question_id": 301,
    "selected_answer": "4",
    "code_submission": "def add(a, b):\n    return a + b"
}

response = requests.post(f"{BASE_URL}/solve_assignment/{assign_id}",
    | | | | | | | json=submission_data)
assert response.status_code == 200
assert "message" in response.json()
assert "is_correct" in response.json()
```



- **Example - False Scenario:**

```
assign_id = 201
submission_data = {
    "user_id": 1
}
response = requests.post(f"{BASE_URL}/solve_assignment/{assign_id}",
    | | | | | | | json=submission_data)
assert response.status_code == 400
```

### 1.5.2. Test: test\_submit\_assignment\_missing\_fields()

- **Description:** Tests submission of an assignment with missing required fields.
- **Example - True Scenario:**

```
assign_id = 201
submission_data = {}
response = requests.post(f"{BASE_URL}/solve_assignment/{assign_id}",
| | | | | | | json=submission_data)
assert response.status_code == 400
```

- **Example – False Scenario:**

```
assign_id = 201
submission_data = {
    "user_id": 1,
    "question_id": 301,
    "selected_answer": "4",
    "code_submission": "def add(a, b):\n    return a + b"
}
response = requests.post(f"{BASE_URL}/solve_assignment/{assign_id}",
                        json=submission_data)
assert response.status_code != 400
```

### 1.6./get\_summary/{lec\_id}\

### 1.6.1. Test: test\_get\_lecture\_summary\_successful()

- **Description:** Tests successfully getting a summary for a lecture.
- **Example - True Scenario:**

```
lec_id = 101
response = requests.get(f"{BASE_URL}/get_summary/{lec_id}")
assert response.status_code == 200
assert "summary" in response.json()
```

- **Example – False Scenario:**

```
lec_id = 999
response = requests.get(f"{BASE_URL}/get_summary/{lec_id}")
assert response.status_code == 404
```

**1.6.2. Test: test\_get\_lecture\_summary\_invalid\_id()**

- **Description:** Tests getting a summary with an invalid lecture ID.
- **Example - True Scenario:**

```
lec_id = "abc"
response = requests.get(f"{BASE_URL}/get_summary/{lec_id}")
assert response.status_code == 400
```

- **Example – False Scenario:**

```
lec_id = 101
response = requests.get(f"{BASE_URL}/get_summary/{lec_id}")
assert response.status_code != 400
```

**1.7./feedback/{assign\_id}****1.7.1. Test: test\_get\_feedback\_successful()**

- **Description:** Tests successfully getting feedback for an assignment.
- **Example - True Scenario:**

```
assign_id = 201
response = requests.get(f"{BASE_URL}/feedback/{assign_id}")
assert response.status_code == 200
assert "feedback" in response.json()
```

- **Example - False Scenario:**

```
assign_id = 888
response = requests.get(f"{BASE_URL}/feedback/{assign_id}")
assert response.status_code == 404
```

**1.7.2. Test: test\_get\_feedback\_invalid\_id()**

- **Description:** Tests getting feedback with an invalid assignment ID.
- **Example - True Scenario:**

```
assign_id = "wrong_id"
response = requests.get(f"{BASE_URL}/feedback/{assign_id}")
assert response.status_code == 400
```

- **Example – False Scenario:**

```
assign_id = 201
response = requests.get(f"{BASE_URL}/feedback/{assign_id}")
assert response.status_code != 400
```



## 1.8./get\_links/{lec\_id}

### 1.8.1. Test: test\_get\_links\_successful()

- **Description:** Tests successfully getting links for a lecture.
- **Example - True Scenario:**

```
lec_id = 101
response = requests.get(f"{BASE_URL}/get_links/{lec_id}")
assert response.status_code == 200
assert "links" in response.json()
```

- **Example – False Scenario:**

```
lec_id = 999
response = requests.get(f"{BASE_URL}/get_links/{lec_id}")
assert response.status_code == 404
```

### 1.8.2. Test: test\_get\_links\_invalid\_id()

- **Description:** Tests getting links with an invalid lecture ID.
- **Example - True Scenario:**

```
lec_id = "not_a_number"
response = requests.get(f"{BASE_URL}/get_links/{lec_id}")
assert response.status_code == 400
```

- **Example – False Scenario:**

```
lec_id = 101
response = requests.get(f"{BASE_URL}/get_links/{lec_id}")
assert response.status_code != 400
```

## 1.9./make\_data/{que\_id}

### 1.9.1. Test: test\_generate\_data\_successful()

- **Description:** Tests successful generation of data for a question.
- **Example - True Scenario:**

```
que_id = 301
response = requests.get(f"{BASE_URL}/make_data/{que_id}")
assert response.status_code == 200
assert "data" in response.json()
```

- **Example – False Scenario:**

```
que_id = 777
response = requests.get(f"{BASE_URL}/make_data/{que_id}")
assert response.status_code == 404
```





### 1.9.2. Test: test\_generate\_data\_invalid\_id()

- **Description:** Tests generating data with an invalid question ID.
- **Example - True Scenario:**

```
que_id = 0
response = requests.get(f"{BASE_URL}/make_data/{que_id}")
assert response.status_code == 400
```

- **Example – False Scenario:**

```
que_id = 301
response = requests.get(f"{BASE_URL}/make_data/{que_id}")
assert response.status_code != 400
```

## 1.10. /logout

### 1.10.1. Test: test\_logout\_successful()

- **Description:** Tests successful user logout.
- **Example - True Scenario:**

```
response = requests.post(f"{BASE_URL}/logout")
assert response.status_code == 200
assert "message" in response.json()
```

## 2. COURSE MANAGEMENT

### 2.1. /courses

#### 2.1.1. Test: test\_get\_available\_courses\_successful()

- **Description:** Tests successful retrieval of available courses.
- **Example - True Scenario:**

```
response = requests.get(f"{BASE_URL}/courses")
assert response.status_code == 200
assert isinstance(response.json(), list)
```

### 2.2. /enroll/{course\_id}

#### 2.2.1. Test: test\_enroll\_in\_course\_successful()

- **Description:** Tests successful enrollment in a course.
- **Example - True Scenario:**

```
course_id = 1
response = requests.post(f"{BASE_URL}/enroll/{course_id}")
assert response.status_code == 200
assert "message" in response.json()
```

**2.2.2. Test: test\_enroll\_in\_course\_invalid\_id()**

- **Description:** Tests enrolling in a course with an invalid course ID.
- **Example - True Scenario:**

```
course_id = 999
response = requests.post(f"{BASE_URL}/enroll/{course_id}")
assert response.status_code == 404
```

**2.3. /progress/{course\_id}****2.3.1. Test: test\_get\_user\_progress\_successful()**

- **Description:** Tests successful retrieval of user progress for a course.
- **Example - True Scenario:**

```
course_id = 1
response = requests.get(f"{BASE_URL}/progress/{course_id}")
assert response.status_code == 200
assert "progress" in response.json()
```

**2.3.2. Test: test\_get\_user\_progress\_invalid\_id()**

- **Description:** Tests retrieving user progress with an invalid course ID.
- **Example - True Scenario:**

```
course_id = -5
response = requests.get(f"{BASE_URL}/progress/{course_id}")
assert response.status_code == 400
```