

## **Capstone Project: Telecom Domain Project Requirements**

### **Project Overview**

**Project Name:** API Testing for Contact List Application

**Domain:** Telecom

**Project Description:** This project aims to perform comprehensive testing of the APIs provided by the <https://thinking-tester-contact-list.herokuapp.com/> application.

The testing will cover various endpoints to ensure the functionality and reliability of the APIs.

### **Objectives:**

- Verify the correctness and consistency of API responses.
- Validate authentication and authorization mechanisms (if applicable).
- Document test cases and results for future reference.

### **Instructions:**

Follow the API document and test all the test cases in Postman apply the chai library assertion and prepare the script in RestAssured & generate the report.

### **Testing Flow:**

Add User → Get user profile → Update user → Login user → Add Contact → Get contact list → Get contact → Update full contact → Update partial contact → Logout User

### **Test Case 1:** Add New User

Request Type: POST

**Endpoint:** <https://thinking-tester-contact-list.herokuapp.com/users>

### **Request Payload:**

```
{  
  "firstName": "Test",  
  "lastName": "User",  
  "email": "test@fake.com",  
  "password": "myPassword"  
}
```

### **Response validation:**

Test for status code and status message 201 created

Token will generate Use the token for further test

**Test Case 2:** Get user Profile

**Request Type:** GET

**Endpoint:** <https://thinking-tester-contact-list.herokuapp.com/users/me>

**Headers:**

Authorization Bearer {{token}}

Response Validation:

Test for status code and message

200 OK

**Test Case 3:** Update User

**Request Type:** PATCH

**Endpoint:** <https://thinking-tester-contact-list.herokuapp.com/users/me>

**Headers:**

Authorization Bearer {{token}}

**Request Payload:**

```
{  
  "firstN ame": "Updated",  
  "lastName": "Username",  
  "email": "test2@fake.com",  
  "password": "myNewPassword"  
}
```

Validate for status code and message

200 OK

**Test Case 4:** Log In User

**Request Type:** POST

**Endpoint:** <https://thinking-tester-contact-list.herokuapp.com/users/login>

**Request Payload:**

```
{
```

```
"email": "test2@fake.com",  
"password": "myNewPassword"  
}
```

Test it in Postman and Get the Token and validate for status code

200 OK

**Test Case 5:** Add Contact

**Request Type:** POST

**Endpoint:** <https://thinking-tester-contact-list.herokuapp.com/contacts>

headers

Authorization

Bearer {{token}}

Request Payload

```
{  
  "firstName": "John",  
  "lastName": "Doe",  
  "birthdate": "1970-01-01",  
  "email": "jdoe@fake.com",  
  "phone": "8005555555",  
  "street1": "1 Main St.",  
  "street2": "Apartment A",  
  "city": "Anytown",  
  "stateProvince": "KS",  
  "postalCode": "12345",  
  "country": "USA"  
}
```

Validate for 201 Created

**Test Case 6:** Get Contact List

**Request Type:** GET

**Endpoint:** <https://thinking-tester-contact-list.herokuapp.com/contacts>

headers

Authorization

Bearer {{token}}

Validate for 200 OK

**Test Case 7:** Get Contact

**Request Type:** GET

**Endpoint:** <https://thinking-tester-contact-list.herokuapp.com/contacts/>

headers

Authorization

Bearer {{token}}

Validate for 200 OK

**Test Case 8:** Update Contact

**Request Type:** PUT

**End Point:** <https://thinking-tester-contact-list.herokuapp.com/contacts/>

headers

Authorization

Bearer {{token}}

Request Payload:

```
{  
  "firstName": "Amy",  
  "lastName": "Miller",
```

```
"birthdate": "1992-02-02",  
"email": "amiller@fake.com",  
"phone": "8005554242",  
"street1": "13 School St.",  
"street2": "Apt. 5",  
"city": "Washington",  
"stateProvince": "QC",  
"postalCode": "A1A1A1",  
"country": "Canada"  
}
```

Validate for Email and 200 OK

**Test Case 9:** Update Contact

**Request Type:** PATCH

**Endpoint:** <https://thinking-tester-contact-list.herokuapp.com/contacts/>

headers

Authorization

Bearer {{token}}

**Request Payload:**

```
{  
  "firstName": "Anna"  
}
```

Validate for first name and 200 OK

**Test Case 10:** Logout User

**Request Type:** POST

**Endpoint:** <https://thinking-tester-contact-list.herokuapp.com/users/logout>

headers

Authorization

Bearer {{token}}

Validate for 200 OK

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