

# TEEM

## Unit Testing Document

Version 1

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# 1. About TEEM

'TEEM' is a web app that aims to provide a platform for smoothing out the collaboration process between people from different backgrounds. It aims to do so by letting them create workspaces, organise meetings, and create tasks.

## 2. Objective

The objective of the unit testing is to ensure the accuracy and reliability of individual software units or components. This process involves verifying that each unit performs its intended function.

## 3. Technologies and Tools Used

The tech stack that has been used to develop the backend of the 'TEEM' web application is Node and Express. The code has been written in Typescript.

For the purpose of unit testing, we have used Jest along with Supertest. We chose Jest in conjunction with SuperTest for our unit testing needs due to their seamless integration and complementary strengths. Jest's native support for TypeScript, along with its efficient testing framework and features like snapshot testing and mocking, makes it a robust choice for unit testing our JavaScript and TypeScript codebase. SuperTest, specializing in HTTP assertions, seamlessly extends Jest's capabilities by enabling easy simulation of HTTP requests and assertions against our API endpoints. This combination provides a comprehensive testing suite, allowing us to validate both the individual units of our code and the functionality of our APIs within a unified and efficient testing environment. The expressive API of SuperTest and Jest's overall testing features create a powerful synergy that aligns well with our testing goals, ensuring thorough and reliable unit testing for our application.

# 4. Using Supertest with Jest

## 1. Authentication

### 1.1. Sign Up

**API:** /api/signup

**Objective:** To let the user signup

**HTTP Method:** POST

**Developer:** Krish Rupapara

#### TC(1.1.1):

Objective	Ensure the API returns a 400 status code when the email, name and password is missing.
Input	Empty Request Body
Expected Status Code	400
Expected Response	User signup should fail with an error message indicating that the Username and password is required.

#### TC(1.1.2):

Objective	Simulate an internal server error when invalid request body provided.
Input	User Data with only email id
Expected Status Code	500
Expected Response	An internal server error message should be returned.

#### TC(1.1.3):

Objective	Simulate an internal server error when invalid request body provided.
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<b>Input</b>	User Data with only name
<b>Expected Status Code</b>	500
<b>Expected Response</b>	An internal server error message should be returned.

#### TC(1.1.4):

<b>Objective</b>	Simulate an internal server error when an invalid request body is provided.
<b>Input</b>	User Data with only password
<b>Expected Status Code</b>	500
<b>Expected Response</b>	An internal server error message should be returned.

#### TC(1.1.5):

<b>Objective</b>	Verify that the API returns a 200 status code and a success message when creating a User with required details.
<b>Input</b>	User Data with minimal required details
<b>Expected Status Code</b>	200
<b>Expected Response</b>	User Created successfully

## 1.2. Login

**API:** /api/login

**Objective:** To let the user login

**HTTP Method:** POST

**Developer:** Krish Rupapara and Mihir Paija

#### TC(1.2.1):

<b>Objective</b>	Ensure the API returns a 400 status code
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	when the email and password are missing.
<b>Input</b>	Empty Request Body
<b>Expected Status Code</b>	400
<b>Expected Response</b>	User login should fail with an error message indicating that the email and password is required.

#### TC(1.2.2):

<b>Objective</b>	Simulate an internal server error when invalid request body provided.
<b>Input</b>	User Data with only email id
<b>Expected Status Code</b>	500
<b>Expected Response</b>	An internal server error message should be returned.

#### TC(1.2.3):

<b>Objective</b>	Simulate an internal server error when invalid request body provided.
<b>Input</b>	User Data with only password
<b>Expected Status Code</b>	500
<b>Expected Response</b>	An internal server error message should be returned.

#### TC(1.2.4):

<b>Objective</b>	Verify that the API returns a 200 status code and a success message when user login with required details.
<b>Input</b>	User Data with minimal required details
<b>Expected Status Code</b>	200
<b>Expected Response</b>	User Login successfully

## 1.3. Change Password

**API:** /api/changePassword

**Objective:** To let the user change Password when he knows password

**HTTP Method:** POST

### TC(1.3.1):

<b>Objective</b>	Simulate an internal server error when invalid request body provided.
<b>Input</b>	Only oldPassword
<b>Expected Status Code</b>	400
<b>Expected Response</b>	change password should fail with an error message indicating that invalid/insufficient Password

### TC(1.3.2):

<b>Objective</b>	Simulate an internal server error when invalid request body provided.
<b>Input</b>	Only newPassword
<b>Expected Status Code</b>	400
<b>Expected Response</b>	change password should fail with an error message indicating that invalid/insufficient Password

### TC(1.3.3):

<b>Objective</b>	Simulate an internal server error when invalid request body provided.
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<b>Input</b>	Only confirmPassword
<b>Expected Status Code</b>	400
<b>Expected Response</b>	User change password should fail with an error message indicating that invalid/insufficient Password

#### TC(1.3.4):

<b>Objective</b>	Return status code 400 when new password is same as old password
<b>Input</b>	oldPassword, newPassword and oldPassword.
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Error message : old password cannot be same as new password.

#### TC(1.3.5):

<b>Objective</b>	Return status code 400 when new password is not same as confirm password
<b>Input</b>	oldPassword, newPassword and oldPassword.
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Error message :confirm password must be same as new password.

#### TC(1.3.6):

<b>Objective</b>	Verify that the API returns a 200 status code and a success message when user's password is changed.
<b>Input</b>	oldPassword, newPassword and oldPassword.
<b>Expected Status Code</b>	200
<b>Expected Response</b>	Success message : Change password successfully



## 1.4. Forgot Password

**API:** /api/forgotPassword

**Objective:** To let the user change when Password is forgotten

**HTTP Method:** POST

### TC(1.4.1):

Objective	Ensure the API returns a 400 status code when the email id is missing.
Input	Empty Request Body
Expected Status Code	400
Expected Response	forgot password should fail with an error message indicating that Please provide email

### TC(1.4.2):

Objective	Ensure the API returns a 200 when entered valid email id.
Input	Email id
Expected Status Code	200
Expected Response	forgot password should fail with an error message indicating that OTP sent successfully

### TC(1.4.2):

Objective	Ensure the API returns a 400 when entered invalid email id.
Input	Email id
Expected Status Code	400

<b>Expected Response</b>	forgot password should fail with an error message indicating invalid credentials
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## 1.4. Reset Password

**API:** /api/resetPassword

**Objective:** To let the user change when Password is forgotten

**HTTP Method:** POST

### TC(1.4.1):

<b>Objective</b>	Ensure the API returns a 400 status code when the email or otp or password is missing.
<b>Input</b>	Empty email or otp or password
<b>Expected Status Code</b>	400
<b>Expected Response</b>	User reset password should fail with an error message indicating that Invalid, Insufficient email or OTP or Password

### TC(1.4.2):

<b>Objective</b>	Ensure the API returns a 400 when OTP is expired
<b>Input</b>	Email , OTP , Password
<b>Expected Status Code</b>	200
<b>Expected Response</b>	User signup should fail with an error message indicating that OTP sent successfully

### TC(1.4.3):

<b>Objective</b>	Ensure the API returns a 400 when entered
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	invalid otp.
<b>Input</b>	Email , OTP , Password
<b>Expected Status Code</b>	400
<b>Expected Response</b>	User signup should fail with an error message indicating invalid otp

#### TC(1.4.4):

<b>Objective</b>	Ensure the API returns a 400 when entered invalid email.
<b>Input</b>	Email , OTP , Password
<b>Expected Status Code</b>	400
<b>Expected Response</b>	User signup should fail with an error message indicating invalid credentials.

#### TC(1.4.5):

<b>Objective</b>	Ensure the API returns a 400 when new password is same as current password.
<b>Input</b>	Email id
<b>Expected Status Code</b>	400
<b>Expected Response</b>	User signup should fail with an error message indicating new password is same current password.

**Result:**

```
PASS src/__test__/auth.test.js (16.087 s)
  signupHandler
    ✓ should send a status code of 200 when new user created (1641 ms)
    ✓ should send a status code of 400 when email already exists (309 ms)
    ✓ should send a status code of 400 when email field is empty (14 ms)
    ✓ should send a status code of 400 when Password field is empty (10 ms)
    ✓ should send a status code of 400 when Name field is empty (12 ms)
  loginHandler
    ✓ should send a status code of 200 when user logged in (470 ms)
    ✓ should send a status code of 400 when email id missing (5 ms)
    ✓ should send a status code of 400 when Password missing (6 ms)
    ✓ should send a status code of 400 when Wrong Password (346 ms)

Test Suites: 1 passed, 1 total
Tests:       9 passed, 9 total
Snapshots:   0 total
```

## 2. Workspace Management

### 2.1. Create Workspace

**API:** /api/createWorkspace

**Objective:** The objective of the given API is to let the user create a workspace.

**HTTP Method:** POST

**Middlewares Used:** requireAuth

**Developer:** Mihir Paija

**TC(2.1.1):**

Objective	Ensure the API returns a 400 status code when the title is missing.
Input	Empty Request Body
Expected Status Code	400

<b>Expected Response</b>	Workspace creation should fail with an error message indicating that the title is required.
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#### TC(2.1.2):

<b>Objective</b>	Simulate an internal server error when invalid request body provided.
<b>Input</b>	Workspace Data with only title
<b>Expected Status Code</b>	500
<b>Expected Response</b>	An internal server error message should be returned.

#### TC(2.1.3):

<b>Objective</b>	Verify that the API returns a 201 status code and a success message when creating a workspace with required details.
<b>Input</b>	Workspace Data with minimal required details
<b>Expected Status Code</b>	201
<b>Expected Response</b>	Workspace Created successfully

#### TC(2.1.4):

<b>Objective</b>	Ensure the API handles the creation of a workspace with unregistered members and returns the appropriate response.
<b>Input</b>	Workspace Data with unregistered member
<b>Expected Status Code</b>	201
<b>Expected Response</b>	Workspace Created without unregistered Members

#### TC(2.1.5):

<b>Objective</b>	Verify that the API returns a 201 status code and a success message when creating a
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	workspace with registered members.
<b>Input</b>	Workspace Data with registered members
<b>Expected Status Code</b>	201
<b>Expected Response</b>	Workspace Created successfully.

## 2.1. Edit Workspace Details

**API:** `/api/:wsID/editWSDetails`

**Objective:** The objective of the given API is to let the workspace manager edit a workspace.

**HTTP Method:** GET

**Middlewares Used:** `requireAuth,wsExist,authManager`

**Developer:** Dhruv Shah

### TC(2.2.1):

<b>Objective</b>	Verify that the API returns a 400 status code when the workspace ID is not a number.
<b>Input</b>	Workspace ID as a non-numeric value (e.g., "workspace_id")
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Invalid wsID error message should be returned.

### TC(2.2.2):

<b>Objective</b>	Ensure the API returns a 400 status code when the workspace ID is not passed.
<b>Input</b>	Empty Workspace ID
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Invalid wsID error message should be returned.

**TC(2.2.3):**

<b>Objective</b>	Verify that the API returns a 404 status code when the specified workspace does not exist.
<b>Input</b>	Non-existing Workspace ID (e.g., 987)
<b>Expected Status Code</b>	404
<b>Expected Response</b>	Workspace Doesn't Exist error message should be returned.

**TC(2.2.4):**

<b>Objective</b>	Ensure the API returns a 401 status code when an unauthorized manager attempts to edit the workspace.
<b>Input</b>	Workspace ID with an unauthorized manager
<b>Expected Status Code</b>	401
<b>Expected Response</b>	You do not own the workspace error message should be returned.

**TC(2.2.5):**

<b>Objective</b>	Verify that the API returns a 200 status code and the updated workspace details when the workspace is edited successfully.
<b>Input</b>	Valid Workspace ID (e.g., 19)
<b>Expected Status Code</b>	200
<b>Expected Response</b>	workspace details should be returned.

**HTTP Method:** PATCH

**Middlewares Used:** requireAuth, wsExist, authManager

**Developer:** Dhruv Shah

**TC(2.2.6):**

<b>Objective</b>	Verify that the API returns a 400 status code when the workspace ID is not a number.
<b>Input</b>	Workspace ID as a non-numeric value (e.g., "workspace_id")
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Invalid wsID error message should be returned.

#### TC(2.2.7):

<b>Objective</b>	Ensure the API returns a 400 status code when the workspace ID is not passed.
<b>Input</b>	Empty Workspace ID
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Invalid wsID error message should be returned.

#### TC(2.2.8):

<b>Objective</b>	Verify that the API returns a 404 status code when the specified workspace does not exist.
<b>Input</b>	Non-existing Workspace ID (e.g., 987)
<b>Expected Status Code</b>	404
<b>Expected Response</b>	Workspace Doesn't Exist error message should be returned.

#### TC(2.2.9):

<b>Objective</b>	Ensure the API returns a 401 status code when an unauthorized manager attempts to edit the workspace.
<b>Input</b>	Workspace ID with an unauthorized manager
<b>Expected Status Code</b>	401
<b>Expected Response</b>	You do not own the workspace error message should be returned.



**TC(2.2.10):**

<b>Objective</b>	Ensure the API returns a 400 status code when the request body is empty.
<b>Input</b>	Empty Request Body
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Error message indicating that Title, description, and type are required.

**TC(2.2.11):**

<b>Objective</b>	Verify that the API returns a 400 status code when the title is empty.
<b>Input</b>	Title, type, and description set to null
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Error message indicating that Title can not be empty.

**TC(2.2.12):**

<b>Objective</b>	Ensure the API returns a 400 status code when the type is empty.
<b>Input</b>	Workspace data with type set to null
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Error message indicating that Type can not be empty.

**TC(2.2.13):**

<b>Objective</b>	Verify that the API returns a 200 status code and a success message when the workspace is successfully edited with a null description
<b>Input</b>	Valid workspace data with null description
<b>Expected Status Code</b>	200

<b>Expected Response</b>	Success message indicating that Settings Saved.
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#### TC(2.2.14):

<b>Objective</b>	Verify that the API returns a 200 status code and a success message when the workspace is successfully edited with complete workspace data.
<b>Input</b>	Valid workspace data with title, type, and description
<b>Expected Status Code</b>	200
<b>Expected Response</b>	Success message indicating that Settings Saved.

## 2.3. Edit Workspace Members

**API:** /api/:wsID/editWSMembers

**Objective:** The objective of the given API is to let the workspace manager edit a workspace members.

**HTTP Method:** GET

**Middlewares Used:** requireAuth,wsExist,authManager

**Developer:** Dhruv Shah

#### TC(2.3.1):

<b>Objective</b>	Verify that the API returns a 400 status code when the workspace ID is not a number.
<b>Input</b>	Workspace ID as a non-numeric value (e.g., "workspace_id")
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Invalid wsID error message should be

	returned.
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#### TC(2.3.2):

<b>Objective</b>	Ensure the API returns a 400 status code when the workspace ID is not passed.
<b>Input</b>	Empty Workspace ID
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Invalid wsID error message should be returned.

#### TC(2.3.3):

<b>Objective</b>	Verify that the API returns a 404 status code when the specified workspace does not exist.
<b>Input</b>	Non-existing Workspace ID (e.g., 987)
<b>Expected Status Code</b>	404
<b>Expected Response</b>	Workspace Doesn't Exist error message should be returned.

#### TC(2.3.4):

<b>Objective</b>	Ensure the API returns a 401 status code when an unauthorized manager attempts to edit the workspace.
<b>Input</b>	Workspace ID with an unauthorized manager
<b>Expected Status Code</b>	401
<b>Expected Response</b>	You do not own the workspace error message should be returned.

#### TC(2.3.5):

<b>Objective</b>	Verify that the API returns a 200 status code and the updated workspace details when the workspace is edited successfully.
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<b>Input</b>	Valid Workspace ID (e.g., 19)
<b>Expected Status Code</b>	200
<b>Expected Response</b>	workspace member list should be returned.

**HTTP Method:** PATCH

**Middlewares Used:** requireAuth,wsExist,authManager

**Developer:** Dhruv Shah

#### TC(2.3.6):

<b>Objective</b>	Verify that the API returns a 400 status code when the workspace ID is not a number.
<b>Input</b>	Workspace ID as a non-numeric value (e.g., "workspace_id")
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Invalid wsID error message should be returned.

#### TC(2.3.7):

<b>Objective</b>	Ensure the API returns a 400 status code when the workspace ID is not passed.
<b>Input</b>	Empty Workspace ID
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Invalid wsID error message should be returned.

#### TC(2.3.8):

<b>Objective</b>	Verify that the API returns a 404 status code when the specified workspace does not exist.
<b>Input</b>	Non-existing Workspace ID (e.g., 987)

<b>Expected Status Code</b>	404
<b>Expected Response</b>	Workspace Doesn't Exist error message should be returned.

#### TC(2.3.9):

<b>Objective</b>	Ensure the API returns a 401 status code when an unauthorized manager attempts to edit the workspace.
<b>Input</b>	Workspace ID with an unauthorized manager
<b>Expected Status Code</b>	401
<b>Expected Response</b>	You do not own the workspace error message should be returned.

#### TC(2.3.10):

<b>Objective</b>	Verify that the API returns a 201 status code and a success message when new members, including an unregistered member, are added to the workspace.
<b>Input</b>	Member data with new members, including an unregistered membe
<b>Expected Status Code</b>	201
<b>Expected Response</b>	Success message indicating that settings saved without unregistered members and they are invited to join TEEM.

#### TC(2.3.11):

<b>Objective</b>	Ensure the API returns a 200 status code and a success message when members are removed from the workspace.
<b>Input</b>	Member list without members to be removed
<b>Expected Status Code</b>	200
<b>Expected Response</b>	Success message indicating that Settings Saved.

### TC(2.3.12):

Objective	Verify that the API returns a 200 status code and a success message when new members are added to the workspace.
Input	Member list with new (registered) members
Expected Status Code	200
Expected Response	Success message indicating that Settings Saved.

## 2.1. Delete Workspace

**API:** /api/:wsID/editWSDetails

**Objective:** The objective of the given API is to let the workspace manager edit a workspace members.

**HTTP Method:** DELETE

**Middlewares Used:** requireAuth,wsExist,authManager

**Developer:** Priyesh Tandel

### TC(2.4.1):

Objective	Verify that the API returns a 400 status code when the workspace ID is not a number.
Input	Workspace ID as a non-numeric value (e.g., "workspace_id")
Expected Status Code	400
Expected Response	Invalid wsID error message should be returned.

### TC(2.4.2):

<b>Objective</b>	Ensure the API returns a 400 status code when the workspace ID is not passed.
<b>Input</b>	Empty Workspace ID
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Invalid wsID error message should be returned.

#### TC(2.4.3):

<b>Objective</b>	Verify that the API returns a 404 status code when the specified workspace does not exist.
<b>Input</b>	Non-existing Workspace ID (e.g., 987)
<b>Expected Status Code</b>	404
<b>Expected Response</b>	Workspace Doesn't Exist error message should be returned.

#### TC(2.4.4):

<b>Objective</b>	Ensure the API returns a 401 status code when an unauthorized manager attempts to edit the workspace.
<b>Input</b>	Workspace ID with an unauthorized manager
<b>Expected Status Code</b>	401
<b>Expected Response</b>	You do not own the workspace error message should be returned.

#### TC(2.4.5):

<b>Objective</b>	Verify that the API returns a 200 status code and a success message when a workspace is deleted.
<b>Input</b>	Valid Workspace ID (e.g., 22)
<b>Expected Status Code</b>	200
<b>Expected Response</b>	Success message indicating that Workspace deleted successfully.

## Result:

```
PASS src/__test__/workspace.test.ts (24.621 s)
  createWorkspacePost
    ✓ should return 400 if title is missing (96 ms)
    ✓ should return 500 if an internal server error occurs (1219 ms)
    ✓ should return 201 with a success message if workspace is created successfully without details except title (735 ms)
    ✓ should return 201 with a message and details if workspace is created with unregistered members (730 ms)
    ✓ should return 201 with a success message if workspace is created successfully (1576 ms)
  editWsDetailsGET
    ✓ should return 200 with a success message if workspace is edited successfully (352 ms)
    invalid request body
      ✓ should return 400 with if the workspace_id is not a number (4 ms)
      ✓ should return 400 with if workspace_id is not passed (8 ms)
      ✓ should return 404 with if the workspace does not exist (176 ms)
    unauthorized manager
      ✓ should return 401 with if the user do not own workspace (177 ms)
  editWsDetailsPATCH
    invalid workspace ID
      ✓ should return 400 with if the workspace_id is not a number (5 ms)
      ✓ should return 400 with if workspace_id is not passed (8 ms)
      ✓ should return 404 with if the workspace does not exist (176 ms)
    unauthorized manager
      ✓ should return 401 with if the user do not own workspace (172 ms)
    invalid request body
      ✓ should return 400 with a success message if req body is empty (172 ms)
      ✓ should return 400 with a success message if title is empty (209 ms)
      ✓ should return 400 with a success message if type is empty (199 ms)
    valid request body
      ✓ should return 200 with a success message if workspace is edited successfully with null description (420 ms)
      ✓ should return 200 with a success message if workspace is edited successfully (362 ms)
  editWsMembersGET
    ✓ should return 200 with a success message if workspace is edited successfully (367 ms)
    invalid request body
      ✓ should return 400 with if the workspace_id is not a number (15 ms)
      ✓ should return 400 with if workspace_id is not passed (9 ms)
      ✓ should return 404 with if the workspace does not exist (190 ms)
    unauthorized manager
      ✓ should return 401 with if user do not own workspace (189 ms)
  editWsMembersPATCH
    invalid workspace ID
      ✓ should return 400 with if the workspace_id is not a number (16 ms)
      ✓ should return 400 with if workspace_id is not passed (12 ms)
      ✓ should return 404 with if the workspace does not exist (185 ms)
    unauthorized manager
      ✓ should return 401 with if user do not own workspace (193 ms)
    valid request body
      ✓ should return 201 with a success message if new member is unregistor (2123 ms)
      ✓ should return 200 with a success message if workspace member removed (1383 ms)
      ✓ should return 200 with a success message if workspace member added (1789 ms)
  editWsDetailsDELETE
    ✓ should return 200 with if the workspace deleted (1365 ms)
    invalid workspace ID
      ✓ should return 400 with if the workspace_id is not a number (4 ms)
      ✓ should return 400 with if workspace_id is not passed (7 ms)
      ✓ should return 404 with if the workspace does not exist (169 ms)
    unauthorized manager
      ✓ should return 401 with if user do not own workspace (171 ms)

Test Suites: 1 passed, 1 total
Tests: 36 passed, 36 total
Snapshots: 0 total
Time: 24.809 s, estimated 30 s
Ran all test suites matching /workspace.test.ts/i.
```

## 3. Workspace Dashboard



## 3.1. Get Stream

**API:** /api/:wsID/stream

**Objective:** The objective of this API is to let the workspace member see the list of the all tasks and meets.

**HTTP Method:** GET

**Middlewares Used:** requireAuth,wsExist,authMember

**Developer:** Mihir Paija

### TC(3.1.1):

Objective	Verify that the API returns a 400 status code when the workspace ID is not a number.
Input	Workspace ID as a non-numeric value (e.g., "workspace_id")
Expected Status Code	400
Expected Response	Invalid wsID error message should be returned.

### TC(3.1.2):

Objective	Ensure the API returns a 400 status code when the workspace ID is not passed.
Input	Empty Workspace ID
Expected Status Code	400
Expected Response	Invalid wsID error message should be returned.

### TC(3.1.3):

Objective	Verify that the API returns a 404 status code when the specified workspace does not exist.
Input	Non-existing Workspace ID (e.g., 987)

<b>Expected Status Code</b>	404
<b>Expected Response</b>	Workspace Doesn't Exist error message should be returned.

#### TC(3.1.4):

<b>Objective</b>	Ensure the API returns a 401 status code when an unauthorized member attempts to view stream of the workspace.
<b>Input</b>	Workspace ID with an unauthorized member
<b>Expected Status Code</b>	401
<b>Expected Response</b>	You are not part of this workspace error message should be returned.

#### TC(3.1.5):

<b>Objective</b>	Verify that the API returns a 200 status code and the stream data for the workspace manager
<b>Input</b>	Valid Workspace ID (e.g., 19)
<b>Expected Status Code</b>	200
<b>Expected Response</b>	List of list of the all tasks and meets of workspace should be returned.

#### TC(3.1.6):

<b>Objective</b>	Verify that the API returns a 200 status code and the stream data for the workspace member
<b>Input</b>	Valid Workspace ID (e.g., 19)
<b>Expected Status Code</b>	200
<b>Expected Response</b>	List of list of the all tasks and meets of workspace should be returned.

## 3.2. Get People

**API:** /api/:wsID/people

**Objective:** The objective of this API is to let the workspace member see the list of people involved in the workspace.

**HTTP Method:** GET

**Middlewares Used:** requireAuth,wsExist,authMember

**Developer:** Mihir Paija

#### TC(3.2.1):

Objective	Verify that the API returns a 400 status code when the workspace ID is not a number.
Input	Workspace ID as a non-numeric value (e.g., "workspace_id")
Expected Status Code	400
Expected Response	Invalid wsID error message should be returned.

#### TC(3.2.2):

Objective	Ensure the API returns a 400 status code when the workspace ID is not passed.
Input	Empty Workspace ID
Expected Status Code	400
Expected Response	Invalid wsID error message should be returned.

#### TC(3.2.3):

Objective	Verify that the API returns a 404 status code when the specified workspace does not exist.
Input	Non-existing Workspace ID (e.g., 987)
Expected Status Code	404

<b>Expected Response</b>	Workspace Doesn't Exist error message should be returned.
--------------------------	-----------------------------------------------------------

#### TC(3.2.4):

<b>Objective</b>	Ensure the API returns a 401 status code when an unauthorized member attempts to view the list of people of the workspace.
<b>Input</b>	Workspace ID with an unauthorized member
<b>Expected Status Code</b>	401
<b>Expected Response</b>	You are not part of this workspace error message should be returned.

#### TC(3.2.5):

<b>Objective</b>	Verify that the API returns a 200 status code and the list of people involved in workspace.
<b>Input</b>	Valid Workspace ID (e.g., 19)
<b>Expected Status Code</b>	200
<b>Expected Response</b>	List of people involved in workspace should be returned.

### 3.3. Get YourWork

**API:** `/api/:wsID/yourWork?filter=`

**Objective:** The objective of this API is to let the workspace member see the list of tasks that are assigned to them in the workspace using filter option like "upcoming" and "all".

**HTTP Method:** GET

**Middlewares Used:** `requireAuth,wsExist,authMember`

**Developer:** Mihir Paija

**TC(3.3.1):**

<b>Objective</b>	Verify that the API returns a 400 status code when the workspace ID is not a number.
<b>Input</b>	Workspace ID as a non-numeric value (e.g., "workspace_id")
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Invalid wsID error message should be returned.

**TC(3.3.2):**

<b>Objective</b>	Ensure the API returns a 400 status code when the workspace ID is not passed.
<b>Input</b>	Empty Workspace ID
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Invalid wsID error message should be returned.

**TC(3.3.3):**

<b>Objective</b>	Verify that the API returns a 404 status code when the specified workspace does not exist.
<b>Input</b>	Non-existing Workspace ID (e.g., 987)
<b>Expected Status Code</b>	404
<b>Expected Response</b>	Workspace Doesn't Exist error message should be returned.

**TC(3.3.4):**

<b>Objective</b>	Ensure the API returns a 401 status code when an unauthorized member attempts to view list their work in the workspace.
<b>Input</b>	Workspace ID with an unauthorized member

<b>Expected Status Code</b>	401
<b>Expected Response</b>	You are not part of this workspace error message should be returned.

### TC(3.2.5):

<b>Objective</b>	Verify that the API returns a 200 status code and upcoming tasks for the workspace manager when the filter is set to "Upcoming".
<b>Input</b>	Valid Workspace ID (e.g., 19) Filter: Upcoming
<b>Expected Status Code</b>	200
<b>Expected Response</b>	List of all upcoming tasks of workspace should be returned.

### TC(3.2.6):

<b>Objective</b>	Verify that the API returns a 200 status code and all tasks for the workspace manager when the filter is set to "All".
<b>Input</b>	Valid Workspace ID (e.g., 19) Filter: All
<b>Expected Status Code</b>	200
<b>Expected Response</b>	List of all tasks of workspace should be returned.

### TC(3.2.7):

<b>Objective</b>	Verify that the API returns a 200 status code and upcoming tasks for the workspace member when the filter is set to "Upcoming".
<b>Input</b>	Valid Workspace ID (e.g., 24) Filter: Upcoming
<b>Expected Status Code</b>	200
<b>Expected Response</b>	List of upcoming tasks of workspace which are assigned to that member should be

	returned.
--	-----------

### TC(3.2.8):

<b>Objective</b>	Verify that the API returns a 200 status code and all tasks for the workspace member when the filter is set to "All".
<b>Input</b>	Valid Workspace ID (e.g., 24) Filter: All
<b>Expected Status Code</b>	200
<b>Expected Response</b>	List of all tasks of workspace which are assigned to that member should be returned.

## 3.4. Get YourMeet

**API:** /api/:wsID/yourMeet?filter=

**Objective:** The objective of this API is to let the workspace member see the list of meets of the workspace in which they are invited using filter option like "upcoming" and "all".

**HTTP Method:** GET

**Middlewares Used:** requireAuth,wsExist,authMember

**Developer:** Mihir Paija

### Result:

```
PASS src/__test__/wsDashboard.test.ts (26.068 s)
```

```
people
```

```
✓ should return 200 with if all good (840 ms)
```

```
invalid workspace ID
```

```
✓ should return 400 with if the workspace_id is not a number (176 ms)
```

```
✓ should return 400 with if workspace_id is not passed (13 ms)
```

```
✓ should return 404 with if the workspace does not exist (926 ms)
```

```
unauthorized member
```

```
✓ should return 401 with if the workspace does not exist (744 ms)
```

```
Your Work
```

```
invalid workspace ID
```

```
✓ should return 400 with if the workspace_id is not a number (9 ms)
```

```
✓ should return 400 with if workspace_id is not passed (8 ms)
```

```
✓ should return 404 with if the workspace does not exist (173 ms)
```

```
unauthorized member
```

```
✓ should return 401 with if the workspace does not exist (402 ms)
```

```
user is workspace manager
```

```
✓ should return 200 with if the workspace manager and filter is upcoming (339 ms)
```

```
✓ should return 200 with if the workspace manager and filter is all (345 ms)
```

```
user is workspace member
```

```
✓ should return 200 with if the workspace manager and filter is upcoming (592 ms)
```

```
✓ should return 200 with if the workspace manager and filter is all (514 ms)
```

```
✓ should return 200 with if the workspace manager and filter is not passed (633 ms)
```

```
stream
```

```
invalid workspace ID
```

```
✓ should return 400 with if the workspace_id is not a number (7 ms)
```

```
✓ should return 400 with if workspace_id is not passed (11 ms)
```

```
✓ should return 404 with if the workspace does not exist (165 ms)
```

```
unauthorized member
```

```
✓ should return 401 with if the workspace does not exist (348 ms)
```

```
user is workspace manager
```

```
✓ should return 200 with if the workspace manager (565 ms)
```

```
user is workspace member
```

```
✓ should return 200 with if the workspace member (722 ms)
```

```
Test Suites: 1 passed, 1 total
```

```
Tests: 20 passed, 20 total
```

```
Snapshots: 0 total
```

```
Time: 26.307 s
```

```
Ran all test suites matching /wsDashboard.test.ts/i.
```

## 4. Task Testing

### 4.1 Assign Task

**API:** /api/:wsID/assignTask

**Objective:** The objective of this API is to let the project manager create a task within the workspace.



**HTTP Method:** POST

**Middlewares Used:** requireAuth, wsExist, authorizeManager

**Developer:** Mihir Paija

#### TC(4.1.1):

<b>Objective</b>	Verify that the API returns a 201 status code when all the details are provided and the assignees list contains all workspace members
<b>Input</b>	Task Details with Assignees List based on above condition
<b>Expected Status Code</b>	201
<b>Expected Response</b>	Task Creation should be successful and assigned to the given assignees.

#### TC(4.1.2):

<b>Objective</b>	Verify that the API returns a 201 status code when all the details are provided and the assignees list contains workspace as well as non workspace members
<b>Input</b>	Task Details with Assignees List based on above condition
<b>Expected Status Code</b>	201
<b>Expected Response</b>	Task Creation should be successful and assigned to only workspace members will a classification to who amongst the assignee is assigned and who isn't a part of the workspace.

#### TC(4.1.3):

<b>Objective</b>	Verify that the API returns a 201 status code when all the details are provided and the assignees list contains workspace as well as non registered members
------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------

<b>Input</b>	Task Details with Assignees List based on above condition
<b>Expected Status Code</b>	201
<b>Expected Response</b>	Task Creation should be successful and assigned to only workspace members will a classification to who amongst the assignee is assigned and who isn't a part of TEEM

#### TC(4.1.4):

<b>Objective</b>	Verify that the API returns a 201 status code when all the details are provided and the assignees list contains workspace as well as non registered members
<b>Input</b>	Task Details with Assignees List based on above condition
<b>Expected Status Code</b>	201
<b>Expected Response</b>	Task Creation should be successful and assigned to only workspace members will a classification to who amongst the assignee is assigned and who isn't a part of the workspace and who isn't a part of TEEM

#### TC(4.1.5):

<b>Objective</b>	Verify that the API returns a 401 status code when the user creating the task is not the project manager
<b>Input</b>	Task Details with Assignees List
<b>Expected Status Code</b>	401
<b>Expected Response</b>	Task Creation should fail with an error message that the user isn't the project manager to the given workspace.

#### TC(4.1.6):

<b>Objective</b>	Verify that the API returns a 400 status code when the title is missing
<b>Input</b>	Task Details with Assignees List
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Task Creation should fail with an error message that the title is missing

#### TC(4.1.7):

<b>Objective</b>	Verify that the API returns a 400 status code when the deadline is missing
<b>Input</b>	Task Details with Assignees List
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Task Creation should fail with an error message that the deadline is missing

#### TC(4.1.8):

<b>Objective</b>	Verify that the API returns a 404 status code when the given workspace doesn't exist
<b>Input</b>	Task Details with Assignees List
<b>Expected Status Code</b>	404
<b>Expected Response</b>	Task Creation should fail with an error message that the workspace doesn't exist

#### TC(4.1.9):

<b>Objective</b>	Verify that the API returns a 404 status code when an invalid workspace ID is sent
<b>Input</b>	Task Details with Assignees List
<b>Expected Status Code</b>	404

<b>Expected Response</b>	Task Creation should fail with an error message that the workspace ID is invalid
--------------------------	----------------------------------------------------------------------------------

## 4.2 Get Task Details

<b>API:</b>	/api/:wsID/:taskID/editTaskDetails
<b>Objective:</b>	The objective of this API is to let the project manager fetch the task details so he/she could then edit it.
<b>HTTP Method:</b>	GET
<b>Middlewares Used:</b>	requireAuth, wsExist, authorizeManager, taskExist, getTaskDetails
<b>Developer:</b>	Dhruv Shah

### TC(4.2.1):

<b>Objective</b>	Verify that the API returns a 200 status code when the project manager tries to fetch task details
<b>Input</b>	It is a GET Request
<b>Expected Status Code</b>	200
<b>Expected Response</b>	The task details should be displayed.

### TC(4.2.2):

<b>Objective</b>	Verify that the API returns a 404 status code when the workspace provided doesn't exist
<b>Input</b>	It is a GET Request
<b>Expected Status Code</b>	404
<b>Expected Response</b>	The fetch should not be successful with an error message that the workspace doesn't exist

#### TC(4.2.3):

<b>Objective</b>	Verify that the API returns a 404 status code when the given task doesn't exist within the given workspace
<b>Input</b>	It is a GET Request
<b>Expected Status Code</b>	404
<b>Expected Response</b>	The fetch should not be successful with an error message that the given task doesn't exist in the given workspace.

#### TC(4.2.4):

<b>Objective</b>	Verify that the API returns a 400 status code when an invalid workspace ID is provided
<b>Input</b>	It is a GET Request
<b>Expected Status Code</b>	400
<b>Expected Response</b>	The fetch should not be successful with an error message that the given workspace ID is invalid.

#### TC(4.2.5):

<b>Objective</b>	Verify that the API returns a 400 status code when an invalid task ID is provided
<b>Input</b>	It is a GET Request

<b>Expected Status Code</b>	400
<b>Expected Response</b>	The fetch should not be successful with an error message that the given task ID is invalid.

## 4.3 Edit Task Details

**API:** `/api/:wsID/:taskID/editTaskDetails`

**Objective:** The objective of this API is to let the project manager edit the task details of an already created task.

**HTTP Method:** PATCH

**Middlewares Used:** `requireAuth, wsExist, authorizeManager, taskExist, getTaskDetails`

**Developer:** Dhruv Shah

### TC(4.3.1):

<b>Objective</b>	Verify that the API returns a 200 status code when everything is correctly provided
<b>Input</b>	Updated Task Details
<b>Expected Status Code</b>	200
<b>Expected Response</b>	Task Updation should be successful

### TC(4.3.2):

<b>Objective</b>	Verify that the API returns a 400 status code when the title isn't provided
------------------	-----------------------------------------------------------------------------

<b>Input</b>	Updated Task Details without title
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Task Updation should fail with an message that necessary fields are missing

#### TC(4.3.3):

<b>Objective</b>	Verify that the API returns a 400 status code when the description isn't provided
<b>Input</b>	Updated Task Details without description
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Task Updation should fail with an message that necessary fields are missing.

#### TC(4.3.4):

<b>Objective</b>	Verify that the API returns a 400 status code when the type isn't provided
<b>Input</b>	Updated Task Details without type
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Task Updation should fail with an message that necessary fields are missing.

#### TC(4.3.5):

<b>Objective</b>	Verify that the API returns a 400 status code when the status isn't provided
<b>Input</b>	Updated Task Details without status
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Task Updation should fail with an message that necessary fields are missing

**TC(4.3.6):**

<b>Objective</b>	Verify that the API returns a 400 status code when the title provided is empty
<b>Input</b>	Updated Task Details with empty title
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Task Updation should fail with an message that the title can't be empty

**TC(4.3.7):**

<b>Objective</b>	Verify that the API returns a 400 status code when an invalid workspace ID is provided
<b>Input</b>	Updated Task Details
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Task Updation should fail with an error message that the given workspace ID is invalid.

**TC(4.3.8):**

<b>Objective</b>	Verify that the API returns a 400 status code when an invalid task ID is provided
<b>Input</b>	Updated Task Details
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Task Updation should fail with an error message that the given task ID is invalid.

## 4.4 Get Task Assignees

**API:** `/api/:wsID/:taskID/editTaskAssignees`



**Objective:** The objective of this API is to let the project manager fetch the task assignees so he/she could then edit it.

**HTTP Method:** GET

**Middlewares Used:** requireAuth, wsExist, authorizeManager, taskExist, getTaskDetails

**Developer:** Dhruv Shah

#### TC(4.4.1):

Objective	Verify that the API returns a 200 status code when a project manager asks for the assignee list
Input	Its a GET Request
Expected Status Code	200
Expected Response	The assignee list should be successfully displayed.

## 4.5 Edit Task Assignees

**API:** /api/:wsID/:taskID/editTaskAssignees

**Objective:** The objective of this API is to let the project manager edit the task assignees of an already created task.

**HTTP Method:** PATCH

**Middlewares Used:** requireAuth, wsExist, authorizeManager, taskExist, getTaskDetails

**Developer:** Dhruv Shah

#### TC(4.5.1):

Objective	Verify that the API returns a 201 status code when a project manager updates a assignee list
-----------	----------------------------------------------------------------------------------------------

<b>Input</b>	A non empty assignee list with all workspace members
<b>Expected Status Code</b>	201
<b>Expected Response</b>	The task assignees should be successfully updated.

#### TC(4.5.2):

<b>Objective</b>	Verify that the API returns a 201 status code when a project manager updates a assignee list
<b>Input</b>	A non empty assignee list with assignees that are part of workspace, not part of workspace and not part of TEEM
<b>Expected Status Code</b>	201
<b>Expected Response</b>	The task assignees should be successfully updated and only assigned to workspace members with the assignees being classified into categories mentioned in the input.

#### TC(4.5.3):

<b>Objective</b>	Verify that the API returns a 400 status code if the assignee list is empty
<b>Input</b>	Empty assignee list
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Task Assignees Updation should fail with an error message that the assignee list is empty

#### TC(4.5.4):

<b>Objective</b>	Verify that the API returns a 400 status code if the assignee list contains no workspace members
<b>Input</b>	Assignee list with no workspace members
<b>Expected</b>	400

<b>Status Code</b>	
<b>Expected Response</b>	Task Assignees Updation should fail with an error message that the assignee list has no workspace members

## 4.6 Delete Task

**API:** `/api/:wsID/:taskID/editTaskDetails`

**Objective:** The objective of this API is to let the project manager delete an already created task.

**HTTP Method:** DELETE

**Middlewares Used:** `requireAuth, wsExist, authorizeManager, taskExist`

**Developer:** Priyesh Tandel

### TC(4.6.1):

<b>Objective</b>	Verify that the API returns a 200 status code if the project manager makes a delete request
<b>Input</b>	It's a delete request
<b>Expected Status Code</b>	200
<b>Expected Response</b>	Task should be deleted successfully.

### TC(4.6.2):

<b>Objective</b>	Verify that the API returns a 401 status code a non project manager makes a delete request
<b>Input</b>	It's a delete request

<b>Expected Status Code</b>	401
<b>Expected Response</b>	Task Deletion should fail with an error message that the user isn't the project manager of the given workspace.

## 4.7 Task Dashboard

<b>API:</b>	/api/:wsID/:taskID/taskDashboard
<b>Objective:</b>	The objective of this API is to let the assignees of the task and the project manager see the details and assignees of the task.
<b>HTTP Method:</b>	GET
<b>Middlewares Used:</b>	requireAuth, wsExist, authorizeMember, taskExist, authorizeAssignee
<b>Developer:</b>	Mihir Paija

### TC(4.7.1):

<b>Objective</b>	Verify that the API returns a 200 status code when a assignee wants to see a task
<b>Input</b>	It is a GET Request
<b>Expected Status Code</b>	200
<b>Expected Response</b>	The details of the task along with the assignee list should be displayed

### TC(4.7.2):

<b>Objective</b>	Verify that the API returns a 401 status code when a non-assignee tries to fetch details
<b>Input</b>	It is a GET Request

<b>Expected Status Code</b>	401
<b>Expected Response</b>	The fetch should not be successful with an error message that the user has not been assigned the given task.

## Results:

```

PASS  src/__test__/task.test.ts (40.38 s)
assignTaskPost
  ✓ should assign a task with all workspace assignees and return a status code of 201 with success message (2152 ms)
  ✓ should assign a task only to workspace members and return a status code of 201 with success message and classify non workspace but registered assignees (1584 ms)

  ✓ should assign a task only to workspace members and return a status code of 201 with success message and classify non-registered assignees (1050 ms)

  ✓ should assign a task only to workspace members and return a status code of 201 with success message and classify other assignees (1928 ms)
  ✓ should return a status code of 401 and an error message that the user is not the owner of the workspace (175 ms)
  ✓ should return a status code of 400 and an error message for missing title (167 ms)
  ✓ should return a status code of 400 and an error message for missing deadline (169 ms)
  ✓ should return a status code of 404 as the workspace doesnt exist (162 ms)
  ✓ should return a status code of 400 and an error message of invalid workspace ID (7 ms)
editTaskDetailsGet
  ✓ should fetch the task details successfully and return a status code of 200 (724 ms)
  ✓ should return a status code of 404 as workspace doesnt exist (167 ms)
  ✓ should return a status code of 404 as task doesnt exist within the given workspace (398 ms)
  ✓ should return a status code of 400 and an error message of invalid workspace ID (5 ms)
  ✓ should return a status code of 400 and an error message of invalid task ID (181 ms)
editTaskDetailsPATCH
  ✓ should edit task details successfully and return a status code of 200 (910 ms)
  ✓ should give an error as title is undefined (702 ms)
  ✓ should give an error as description is undefined (738 ms)
  ✓ should give an error as type is undefined (691 ms)
  ✓ should give an error as status is undefined (692 ms)
  ✓ should give an error as title is null (707 ms)
  ✓ should return a status code of 400 and an error message of invalid workspace ID (5 ms)
  ✓ should return a status code of 400 and an error message of invalid task ID (164 ms)
editTaskAssigneesGet
  ✓ should fetch the task assignees successfully and return a status code of 200 (705 ms)
editTaskAssigneesPATCH
  ✓ should edit task assignees successfully and return a status code 201 (1609 ms)
  ✓ should edit task assignees successfully to workspace members, return a status code 201 and classify other assignees (2123 ms)
  ✓ should handle empty Assignees (697 ms)
  ✓ should not make any changes if no assignee is part of the workspace (1029 ms)
deleteTask
  ✓ should delete task succesfully and return a status code of 200 (703 ms)
  ✓ should return a status code of 401 with an error message that the user isnt the project manager (162 ms)
  ✓ should fetch the task details successfully and return a status code of 200 (689 ms)
  ✓ should return a status code of 401 as the user is not an assignee (681 ms)

Test Suites: 1 passed, 1 total
Tests:       31 passed, 31 total
Snapshots:   0 total
Time:        40.624 s
Ran all test suites matching /task.test.ts/i.

```

## 5. Dashboard Testing

### 5.1 Get Dashboard

**API:** /api/dashboard

**Objective:** The objective of this API is to let the user see the list of all workspaces that they are part of.

**HTTP Method:** GET

**Middlewares Used:** requireAuth

**Developer:** Mihir Paija

#### TC(5.1.1):

Objective	should return 200 with when user is valid and workspaces are there.
Input	Email , password
Expected Status Code	200
Expected Response	Workspace [] array.

### 5.2 Get Profile

**API:** /api/profile

**Objective:** The objective of this API is to let the user see his profile

**HTTP Method:** GET

**Middlewares Used:** requireAuth

**Developer:** Mihir Paija

**TC(5.2.1):**

<b>Objective</b>	should return 200 with when user is valid.
<b>Input</b>	Email , password
<b>Expected Status Code</b>	200
<b>Expected Response</b>	User Body.

**TC(5.2.2):**

<b>Objective</b>	should return 500 with when user is invalid.
<b>Input</b>	Email , password
<b>Expected Status Code</b>	500
<b>Expected Response</b>	Undefined

## 5.3 Update Profile

**API:** /api/profile

**Objective:** The objective of this API is to let the user update his profile.

**HTTP Method:** PATCH

**Middlewares Used:** requireAuth

**Developer:** Mihir Paija

**TC(5.3.1):**

<b>Objective</b>	should return 200 When all fields are provided properly
<b>Input</b>	User Body
<b>Expected Status Code</b>	200
<b>Expected Response</b>	Message : "User profile Updated"

#### TC(5.3.2):

<b>Objective</b>	should return 400 with when user is invalid.
<b>Input</b>	User Body
<b>Expected Status Code</b>	400
<b>Expected Response</b>	User not found.

#### TC(5.3.3):

<b>Objective</b>	should return 400 with when user is attempting to update email.
<b>Input</b>	User Body
<b>Expected Status Code</b>	400
<b>Expected Response</b>	You cannot change email ID.

#### TC(5.3.4):

<b>Objective</b>	should return 400 with when Username is missing
<b>Input</b>	User Body with empty Username field
<b>Expected Status Code</b>	400



<b>Expected Response</b>	Username cannot be empty
--------------------------	--------------------------

#### TC(5.3.5):

<b>Objective</b>	should return 400 with when email is missing
<b>Input</b>	User Body with empty emailID field
<b>Expected Status Code</b>	400
<b>Expected Response</b>	emailID cannot be empty

#### TC(5.2.6):

<b>Objective</b>	should return 400 with when email is missing
<b>Input</b>	Empty Body
<b>Expected Status Code</b>	400
<b>Expected Response</b>	Insufficient request body

## 5.4 Delete Profile

**API:** /api/profile

**Objective:** The objective of this API is to let the user delete his profile.

**HTTP Method:** DELETE

**Middlewares Used:** requireAuth

**Developer:** Priyesh Tandel

#### TC(5.4.1):

Objective	should return 200 when Profile deleted successfully.
Input	Email password from requireAuth
Expected Status Code	200
Expected Response	Message : "User profile Deleted Successfully."

## Result:

```

PASS  src/__test__/auth.test.js (16.087 s)
  signupHandler
    ✓ should send a status code of 200 when new user created (1641 ms)
    ✓ should send a status code of 400 when email already exists (309 ms)
    ✓ should send a status code of 400 when email field is empty (14 ms)
    ✓ should send a status code of 400 when Password field is empty (10 ms)
    ✓ should send a status code of 400 when Name field is empty (12 ms)
  loginHandler
    ✓ should send a status code of 200 when user logged in (470 ms)
    ✓ should send a status code of 400 when email id missing (5 ms)
    ✓ should send a status code of 400 when Password missing (6 ms)
    ✓ should send a status code of 400 when Wrong Password (346 ms)

Test Suites: 1 passed, 1 total
Tests:       9 passed, 9 total
Snapshots:   0 total

PASS  src/__test__/deleteprofile.test.js (18.203 s)
  delete Profile
    ✓ should return 200 when profile deleted successfully (3925 ms)

Test Suites: 1 passed, 1 total
Tests:       1 passed, 1 total
Snapshots:   0 total
Time:        18.386 s

```

## 6. Meet Testing

### 6.1 Schedule Meet

**API:** `/api/:wsid/scheduleMeet`

**Objective:** The objective of this API is to let the user  
Schedule the meeting

**HTTP Method:** GET

**Middlewares Used:** `requireAuth` , `wsExist`

**Developer:** Krish Rupapara

#### TC(6.1.1):

Objective	should return 200 when the meeting is successfully scheduled
Input	summary , description, agenda, startDate, startTime , endTime, venue, participants: [ ]
Expected Status Code	200
Expected Response	Meet Successfully created

#### TC(6.1.2):

Objective	should return 400 when Title , agenda or date is empty
Input	Whole meetDetail object without any of the one above
Expected Status Code	400
Expected Response	Insufficient Fields

## 6.1 Edit Meet

**API:** `/api/:wsid/scheduleMeet`

**Objective:** The objective of this API is to let the user Edit the meeting

**HTTP Method:** GET

**Middlewares Used:** `requireAuth` , `wsExist`

**Developer:** Krish Rupapara

### TC(6.2.1):

Objective	should return 200 when the meeting is successfully Edited
Input	summary , description, agenda, startDate, startTime , endTime, venue, participants: [ ]
Expected Status Code	200
Expected Response	Meet Successfully Edited

### TC(6.2.2):

Objective	should return 400 when any of the field is missing
Input	Whole meetDetail object without any of the one above from summary , description, agenda, startDate, startTime , endTime, venue empty
Expected Status Code	400
Expected Response	Insufficient Fields

```
PASS src/__test__/meet.test.js (17.445 s)
```

#### Schedule Meet Handler

- ✓ should send a status code of 200 when meet is scheduled (1973 ms)
- ✓ should send a status code of 400 when Title is empty (458 ms)
- ✓ should send a status code of 400 when Agenda is missing (508 ms)
- ✓ should send a status code of 400 when Date is missing (512 ms)

#### Edit Meet Handler

- ✓ should send a status code of 200 when meet Edited successfully (917 ms)
- ✓ should send a status code of 400 when title Field is empty (510 ms)
- ✓ should send a status code of 400 when agenda Field is empty (513 ms)
- ✓ should send a status code of 400 when description Field is empty (511 ms)
- ✓ should send a status code of 400 when date Field is empty (513 ms)

```
Test Suites: 1 passed, 1 total
```

```
Tests: 9 passed, 9 total
```

## 5. Conclusion

In conclusion, the unit testing process has been instrumental in ensuring the robustness and reliability of our codebase. Through comprehensive test coverage, we have tried our best to identify and address potential issues, ensuring that our application functions as intended across various scenarios. Successful test cases have provided confidence in the stability of our code and any challenges encountered were effectively mitigated.