Table of Contents

[1. Topic Overview Component 2](#_Toc197079107)

[2. Submissions Overview Component 2](#_Toc197079108)

[3. Drawing Component 3](#_Toc197079109)

[4. Access Denied Component 4](#_Toc197079110)

[5. Topic Detail Component 4](#_Toc197079111)

[6. Navigation Component 5](#_Toc197079112)

[7. Loader & Button Components 6](#_Toc197079113)

[8. Writer & Manager Management Components 6](#_Toc197079114)

[9. Login Component 7](#_Toc197079115)

[10. Role Review & Not Found Components 8](#_Toc197079116)

[11. Manager Overview Component 8](#_Toc197079117)

Angular Component Test Documentation

# **1. Topic Overview Component**

Description: Tests for the topic overview page, which displays topics and allows navigation.

**Tests**

- should create

Verifies the component initializes correctly.

- should load topics on initialization

Ensures topics are loaded when the component initializes.

- should filter topics based on user email

Confirms topics are filtered by the logged-in user's email.

- should navigate to drawing page with topic parameters

Tests navigation to the drawing page with the correct topic ID and name.

- should handle pagination correctly

Verifies pagination logic (next/previous page, page size).

# 2. Submissions Overview Component

Description: Tests for the submissions overview, showing user drawings with pagination and deletion.

**Tests**

- should create

Verifies component initialization.

- should load user drawings on initialization

Ensures drawings are loaded when the component starts.

- should paginate drawings correctly

Tests pagination functionality (next/previous).

- should view drawing with correct parameters

Ensures navigation to the drawing page includes proper query params.

- should delete a drawing

Confirms drawing deletion works as expected.

# 3. Drawing Component

Description: Tests for the drawing editor/viewer.

**Tests**

- should create

Verifies component initialization.

- should load labels for the topic

Ensures labels are fetched when a topic is selected.

- should call addDrawing when updateDrawing is false

Tests new drawing submission.

- should call updateDrawing when updateDrawing is true

Tests drawing updates.

- should show error when label is missing

Validates error handling for missing labels.

- should initialize with drawing data when coming from submissions overview

Ensures pre-filled data when editing an existing drawing.

# 4. Access Denied Component

Description: Simple test for the access denied page.

**Tests**

- should create

Verifies the component renders.

# 5. Topic Detail Component

Description: Tests for the topic detail page, including label and access management.

**Tests**

- should create

Verifies component initialization.

- should load topic and related data on init

Ensures topic, drawings, and labels are loaded.

- should filter drawings correctly

Tests filtering by description, writer, and status.

- should toggle edit mode

Tests switching between view and edit modes.

- should add and remove labels

Validates label management.

- should manage access users

Tests adding/removing user access.

- should save changes

Confirms topic updates work.

- should delete topic

Tests topic deletion with confirmation.

- should view drawing

Ensures navigation to the drawing page works.

- should get writer name

Tests the display of writer names.

# 6. Navigation Component

Description: Tests for the main navigation menu.

**Tests**

- should create

Verifies component initialization.

- should initialize with user data

Ensures user role is loaded.

- should fetch user role on initialization

Tests role-based menu visibility.

- should navigate to... (multiple)

Tests navigation to different routes (topic overview, manager overview, etc.).

- should toggle menu / profile menu

Tests UI interactions for menu toggles.

- should handle error when fetching user role

Validates error handling for role loading.

# 7. Loader & Button Components

Description: Basic tests for reusable UI components.

**Tests**

- should create

Verifies component initialization.

# 8. Writer & Manager Management Components

Description: Tests for user role management interfaces.

**Tests**

- should create

Verifies component initialization.

- should load users with [role] on initialization

Tests filtering by role (writer/manager/no role).

- should paginate users correctly

Tests pagination logic.

- should save role changes and refresh users

Validates role updates.

- should delete user and update list

Tests user deletion.

- should open and close modal correctly

Tests modal interactions.

- should correctly show role names

Ensures role labels display properly.

# 9. Login Component

Description: Tests for authentication flows.

**Tests**

- should create

Verifies component initialization.

- should decode JWT correctly

Tests JWT parsing.

- should handle invalid JWT decoding

Validates error handling for malformed tokens.

- should save new user if not exists

Tests user creation on first login.

- should not save user if already exists

Ensures duplicate users aren’t created.

- should handle credential response and redirect

Tests OAuth login flow.

- should redirect based on [role]

Tests post-login navigation (writer → topic overview, admin → manager management, etc.).

- should sign in with Google / handle errors

Tests Google Auth integration.

- should set client\_id in ngAfterViewInit

Ensures Google OAuth client ID is configured.

# 10. Role Review & Not Found Components

Description: Simple tests for auxiliary pages.

**Tests**

- should create

Verifies component initialization.

# 11. Manager Overview Component

Description: Tests for the manager dashboard.

**Tests**

- should create

Verifies component initialization.

- should load topics and drawings on init

Tests data loading.

- should sort by [criteria]

Tests sorting (alphabetical, total drawings, unreviewed).

- should filter topics by search text

Tests search functionality.

- should add/remove labels and access emails

Tests topic management features.

- should add topic to database

Validates topic creation.

- should reset form when canceling add topic

Tests form cleanup.