



TOBB ETU
Economy & Technology University
BIL 481

Acceptance Tests and Criteria

Group: EYAY

Project: HAYAI ET

EYAY

Ali Türkücü

Esra Alparlan

Muhammed Yusuf Kartal

Yağız Can Akay

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1. Acceptance Criteria

These criteria define the "Definition of Done" for the four core scenarios selected for the demo. They are derived directly from the Functional Requirements (FR) and Constraints (SWC/NFR) defined in previous assignments.

Scenario 1: Login & Sign-up

- **AC 1.1:** The system must prevent registration without a valid parent email/verification code (Traceability: FR-1).
- **AC 1.2:** Passwords must be hashed using Argon2 or Bcrypt; no plain text passwords shall be stored in the database (Traceability: FR-1, FR-12, NFR-2).
- **AC 1.3:** Successful login must return a valid JWT (JSON Web Token) for session management (Traceability: FR-2).

Scenario 2: Upload Drawings & Transform with AI

- **AC 2.1:** The system must accept only .jpg or .png files under 10 MB in size (Traceability: FR-3, Constraint SWC-004).
- **AC 2.2:** The AI transformation process must complete and return a generated result within 120 seconds (Traceability: NFR-3, Constraint SWC-003).
- **AC 2.3:** Both the Original and AI-generated images must be saved to the user's personal library immediately after generation (Traceability: FR-5).
- **AC 2.4:** The system must automatically screen content using AI moderation. Inappropriate content must be flagged as "Rejected" and blocked from display (Traceability: FR-11).

Scenario 3: Search Friends & View Their Libraries

- **AC 3.1:** The search function must return users based on partial username matches (Prefix matching) (Traceability: FR-9).
- **AC 3.2:** A user cannot view another user's "Private" or "Rejected" posts; only "Public" and "Approved" posts are visible in the gallery grid (Traceability: FR-6, NFR-5).
- **AC 3.3:** Users must have the ability to toggle the visibility of their posts ("Public"/"Private") to control sharing (Traceability: FR-6).

Scenario 4: Like & Preset-Comment

- **AC 4.1:** Users can "Like" a post. The action must be idempotent (clicking twice does not add two likes) (Traceability: FR-7).

- **AC 4.2:** Users can ONLY submit comments from the predefined list. Any free-text input sent via API manipulation tools must be rejected by the backend (Traceability: FR-8, FR-11, Constraint SWC-002).

2. Acceptance Test Cases

The following test cases were designed to verify the acceptance criteria on the deployed environment.

Test Case 1: Safe Registration & Authentication

- **Associated Scenario:** Login & Sign-up
- **Correspondence to AC:** Verifies AC 1.1, AC1.2 and AC 1.3.
- **Pre-conditions:** User "DemoChild1" does not exist in the database.
- **Test Steps:**
 1. Navigate to the /register page.
 2. Enter Username: DemoChild1, Password: Password123, Parent Email: parent@test.com.
 3. Submit the form.
 4. Log in with the newly created credentials.
- **Expected Result:** Registration returns HTTP 201. Login returns HTTP 200 with a valid Access Token. User is redirected to the Dashboard.

Test Case 2.1: AI Transformation Flow

- **Associated Scenario:** Upload Drawings & Transform with AI
- **Correspondence to AC:** Verifies AC 2.1, AC 2.2 and AC 2.3.
- **Pre-conditions:** User is logged in. A valid drawing file (sun_drawing.jpg, 2MB) is available.
- **Test Steps:**
 1. Click the "Upload" button and select sun_drawing.jpg.
 2. Select the Theme "Space Adventure" from the dropdown.
 3. Click "Reimagine" and wait for the process to complete.
 4. Navigate to "My Library".
- **Expected Result:** The loading spinner appears. Within 2 minutes, the result page displays the original drawing side-by-side with a space-themed AI version. The image is persisted in the library.

Test Case 2.2: AI Safety & Policy Enforcement

- **Associated Scenario:** Upload Drawings & Transform with AI
- **Correspondence to AC:** Verifies AC 2.4 and AC 3.2.
- **Pre-conditions:** User is logged in. A test image containing policy-violating content is available.
- **Test Steps:**
 1. Upload the flagged image and click "Reimagine".
 2. Observe the UI notification and API response.
 3. Navigate to "My Library" to verify visibility.
- **Expected Result:** The backend immediately blocks the process with an HTTP 400 Bad Request error displaying a policy violation message; the image is marked as "rejected" and "private" in the database and remains completely invisible in the user's "My Library" grid.

Test Case 2.3: File Size Limit

- **Associated Scenario:** Upload Drawings & Transform with AI
- **Correspondence to AC:** Verifies AC 2.1.
- **Pre-conditions:** User is logged in. A test file exceeding the limit is available.
- **Test Steps:**
 1. Navigate to the "Upload" page.
 2. Select and attempt to upload the large_file.jpg.
 3. Observe the error message and system response.
- **Expected Result:** The system immediately rejects the upload with an HTTP 413 Payload Too Large error, and no record is created in the database for this file.

Test Case 3: Gallery Visibility & Privacy

- **Associated Scenario:** Search Friends & View Their Libraries
- **Correspondence to AC:** Verifies AC 3.2.
- **Pre-conditions:** User A has 1 Public Post and 1 Private Post. User B is logged in.
- **Test Steps:**
 1. User B searches for User A.
 2. User B clicks on User A's profile to view their gallery.
 3. Count the visible posts in the grid.
- **Expected Result:** User B sees exactly **one** post (the Public one). The Private post is hidden from the view.

Test Case 4: Social Safety Constraint (Anti-Free-Text)

- **Associated Scenario:** Like & Preset-Comment
- **Correspondence to AC:** Verifies AC 4.2.

- **Pre-conditions:** User is logged in and viewing a friend's post (ID: post_123).
- **Test Steps:**
 1. **UI Test:** Click "Comment" and select "Great Job!" from the dropdown. Verify it posts.
 2. **Security Attack Test:** Use Postman to send a POST request to /api/posts/post_123/comment with a custom payload: {"content": "This is a custom bad word"}.
- **Expected Result:**
 - UI Test: Comment appears successfully.
 - Security Attack: Backend returns 422 Validation Error or 400 Bad Request. The custom text is **NOT** saved to the database.

3. Document-Specific Task Matrix

Document Task	Esra	Yağız	Yusuf	Ali
Document Planning			✓	
Acceptance Criteria			✓	✓
Acceptance Test Cases			✓	✓
Formatting & Final Review	✓	✓	✓	✓