**QA Checklist & Developer Test Cases: AI Packaging Design Platform**

## ✅ QA Checklist

### 1. Prompt-Based Generation

| Test Case | Description | Pass Criteria |
| --- | --- | --- |
| TC-001 | Enter random gibberish prompt (“asdfghjkl”) | System returns friendly error or suggestion |
| TC-002 | Enter conflicting prompt (“minimalist and loud”) | Platform selects dominant style or asks for clarification |
| TC-003 | Use a prompt exceeding 1000 characters | Prompt is trimmed or user is warned |

### 2. Sketch/Image Upload

| Test Case | Description | Pass Criteria |
| --- | --- | --- |
| TC-004 | Upload blurry sketch image | Platform enhances image or warns user |
| TC-005 | Upload real photo instead of sketch | Platform detects and asks for proper input |
| TC-006 | Upload image with no structure (floating lines) | Platform prompts user to refine sketch |
| TC-007 | Upload branded reference image | Platform detects trademarks or adds warning message |

### 3. File Handling & Export

| Test Case | Description | Pass Criteria |
| --- | --- | --- |
| TC-008 | Attempt to download corrupted file | Platform prevents download, displays error |
| TC-009 | Generate high-res file >8K | Platform compresses file or limits size |
| TC-010 | Upload unsupported file format (.PSD) | Platform shows file type error |

### 4. Color & Style Handling

| Test Case | Description | Pass Criteria |
| --- | --- | --- |
| TC-011 | Prompt with clashing colors | Platform suggests color correction or auto-fixes |
| TC-012 | Use “pastel” prompt but get bright design | System maintains pastel theme or flags inconsistency |

### 5. Layout & Typography

| Test Case | Description | Pass Criteria |
| --- | --- | --- |
| TC-013 | Text overlaps with key design elements | System adjusts layout automatically |
| TC-014 | Use Indian languages (Hindi, Tamil) in labels | Fonts render correctly or default fonts used |
| TC-015 | Ingredients appear in wrong section | GPT layout corrector places them accurately |

### 6. User Behavior & Abuse

| Test Case | Description | Pass Criteria |
| --- | --- | --- |
| TC-016 | Spam refresh to avoid credit deduction | Platform limits inputs per session/IP |
| TC-017 | Double-click download button | System debounces and prevents duplicate generation |
| TC-018 | Input adult/inappropriate text | System filters or blocks content safely |

### 7. Performance & Infrastructure

| Test Case | Description | Pass Criteria |
| --- | --- | --- |
| TC-019 | Trigger 10 simultaneous generations | System queues requests or handles without crash |
| TC-020 | Force network timeout during generation | Platform retries or notifies user gracefully |
| TC-021 | Access on Safari/iOS | UI/UX renders correctly on all major browsers |

### 8. Legal & Compliance

| Test Case | Description | Pass Criteria |
| --- | --- | --- |
| TC-022 | Prompt includes brand names/logos | System shows legal disclaimer or blocks generation |
| TC-023 | AI adds unverified claims (“100% organic”) | System adds disclaimer or asks for manual edit |

## 🧪 Developer Test Case Format (Examples)

**Test Case ID:** TC-004  
**Title:** Upload blurry sketch image  
**Priority:** High  
**Precondition:** User is logged in  
**Steps:**  
1. Go to Upload page  
2. Upload a low-resolution sketch  
3. Click “Generate”  
**Expected Result:** System should display an enhancement prompt or warning  
**Actual Result:** (To be filled during testing)  
**Status:** Pass/Fail

**Test Case ID:** TC-018  
**Title:** Input NSFW or harmful content in prompt  
**Priority:** High  
**Steps:**  
1. Go to Text-to-Design input  
2. Enter offensive text or slang  
3. Click “Generate”  
**Expected Result:** Platform blocks request and shows safe warning  
**Status:** Pass/Fail

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