[SCHOOL NAME] | Department of Career & Technical Education

Program: Computer Technology / Programming & Software Development

Course Code: [Insert Code, e.g., TE81]

DOCUMENT: TECHNICAL DEBUGGING LOG	**VERSION: 2025.1**
STUDENT NAME: _____	**DATE:** _____
PROJECT: Web Application MVP	**PERIOD:** _____

I. PROBLEM IDENTIFICATION

Documentation of technical barriers encountered during the development sprint.

1. Symptom Description:

(What is the observable failure? e.g., "Script terminates on line 15" or "Null value returned from database")

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2. Environment & Location:

(File path, function name, or line number)

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3. Raw Error Output:

(Paste terminal output, browser console error, or PHP log snippet below)

> _____

II. TROUBLESHOOTING STRATEGY (TECHNICAL COMPETENCY)

Identify the industry-standard method used to isolate the root cause.

- [ ] **Trace Logic:** Variable inspection via var_dump(), print_r(), or console.log().
- [ ] **Network/Environment Audit:** Inspection of DevTools Network tab or Server Logs.
- [ ] **Peer Review:** Structured code walkthrough with a team member.
- [ ] **Documentation Research:** Consultation of official language specifications (PHP.net / MDN).
- [ ] **AI-Assisted Analysis:** Used AI to interpret error syntax (Student must explain logic).

III. RESOLUTION STEPS & RESULTS

Action Taken (Attempt 1):

_____

Action Taken (Attempt 2):

_____

Final Resolution Status:

[ ] **RESOLVED**

[ ] **UNRESOLVED / ESCALATED** (Requires Instructor Intervention)

IV. METACOGNITIVE REFLECTION

Alignment with Danielson Framework Domain 4a (Reflecting on Teaching & Learning).

1. Root Cause Analysis:

(Why did this error occur? e.g., Syntax, Logical Flaw, Database Connection, Permission Issue)

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2. Prevention Strategy:

(What technical takeaway will you apply to future development to avoid this specific bug?)

V. INSTRUCTOR VERIFICATION

Reviewer Initials: _____ | Feedback: _____