# Defect Logging

## 🔹 Definition

**# Source**: **Chatgpt (GPT-5-Standard) at [8/18/2025]**

**Defect Logging** is the process of **formally recording a defect** in a defect tracking system (bug tracking tool) after it has been identified during testing.

It transforms a discovered problem into a **trackable record** that developers and the team can manage until closure.

## **⚙️ Steps in Defect Logging**

**# Source**: **Chatgpt (GPT-5-Standard) at [8/18/2025]**

1. **Defect Identification** → Tester finds an issue.
2. **Defect Documentation** → Tester logs the defect with all necessary details.
3. **Assigning** → The defect is assigned to the responsible developer/team.
4. **Tracking** → Monitored through the defect life cycle until fixed and verified.

## **📝 Typical Fields in a Defect Log**

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When logging a defect, testers usually include:

* **Defect ID** (auto-generated by tool, e.g., BUG-101)
* **Title / Summary** (short description, e.g., “Login button not clickable”)
* **Description** (detailed steps to reproduce the defect)
* **Severity** (impact on system: Critical, Major, Minor)
* **Priority** (urgency to fix: High, Medium, Low)
* **Environment** (OS, browser, app version)
* **Attachments** (screenshots, logs, videos)
* **Status** (New, Assigned, In Progress, Fixed, Closed)
* **Assigned To** (developer or team responsible)

## **🛠️ Defect Logging Tools**

**# Source**: **Chatgpt (GPT-5-Standard) at [8/18/2025]**

* **JIRA**
* **Bugzilla**
* **MantisBT**
* **HP ALM (Quality Center)**
* **Azure DevOps**

## **🎯 Purpose**

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* Provide **clear communication** between testers and developers.
* Enable **tracking and prioritization** of issues.
* Support **metrics collection** (e.g., defect density, defect trends).
* Ensure **traceability** from discovery → fix → verification.

## **📊 Example**

**# Source**: **Chatgpt (GPT-5-Standard) at [8/18/2025]**

Tester finds a bug where **“checkout button does not work in Chrome browser.”**

✅ Logs in JIRA:

* Defect ID: BUG-234
* Title: *Checkout button unresponsive in Chrome*
* Steps to Reproduce: Open cart → Click checkout → No action.
* Expected Result: Redirect to payment page.
* Actual Result: Nothing happens.
* Severity: High
* Priority: Critical
* Attachment: Screenshot & console log

✅ **In short:** **Defect Logging** = after identifying a bug → formally record it in a **defect tracking tool** with all necessary details → so it can be tracked, fixed, and verified.