

# Phase 7: Login Access Policies & Sandbox Usage – (Online Laptop Booking)

## 1. Login Access Policies

Login access policies define **how, when, and from where users can access Salesforce.**

### a. IP Restrictions

- **Implementation:**
  - Configured Salesforce to allow access **only from company devices or specific office networks.**
  - IP ranges can be set per **profile or organization-wide.**
- **Purpose:**
  - Prevents unauthorized login attempts from unknown locations.
  - Reduces the risk of **data breaches or phishing attacks.**
- **Example:**
  - Only allow logins from 192.168.1.0 – 192.168.1.255 (company office network).

### b. Session Timeout

- **Implementation:**
  - Configured session timeout to automatically **log users out after inactivity.**
  - Typical settings: 30 minutes to 2 hours depending on sensitivity.
- **Purpose:**
  - Reduces the risk of **unauthorized access if a user leaves a session open.**

### c. Login Hours

- **Implementation:**
  - Defined allowed login times for different profiles (e.g., Sales: 8 AM – 8 PM, Support: 24/7).
- **Purpose:**
  - Restricts access outside business hours.
  - Helps **prevent misuse or accidental changes** during off-hours.

## 2. Sandbox Usage

A **sandbox** is a **copy of your Salesforce org** used for **development, testing, and training** without affecting live data.

#### a. Developer Sandbox

- **Purpose:**
  - A **safe environment** for developers to build and test custom objects, triggers, flows, and automation.
- **Implementation in Project:**
  - Created Laptop, Dealer, Customer, Order, Testing, and Service Testing objects in Sandbox first.
  - Tested **triggers, validation rules, approval processes, and flows** in Sandbox before deploying to Production.

#### b. Testing & Deployment

- Changes tested thoroughly in Sandbox:
  - Validate workflows and flows
  - Test triggers for bulk processing
  - Confirm LWC components display correctly
- Once verified, changes deployed to Production using **Change Sets or VS Code with SFDX**.

### 3. Importance

1. **Security:**
  - IP restrictions, session timeout, and login hours **reduce unauthorized access** and protect sensitive business data (customer info, orders, stock levels).
2. **Safe Testing Environment:**
  - Sandbox ensures **new automation or Apex code does not affect live records**.
  - Developers can experiment without risk of disrupting operations.
3. **Error Prevention & Compliance:**
  - Testing workflows, triggers, and validation rules in Sandbox helps **catch errors before deployment**.
  - Supports **internal audits and regulatory compliance** by maintaining separate testing and production environments.

#### Summary

- **Login Access Policies** enforce **network-based and time-based security** to protect Salesforce data.

- **Sandbox Usage** provides a **safe space for development and testing**, preventing accidental changes in Production.
- Together, they ensure **secure, reliable, and compliant operation** of your Laptop Ordering Salesforce system.