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Maximum marks	

### Chapter – 7

#### Functional and Performance Testing

##### 7.1 Performance Testing (Trigger Testing)

###### Functional Testing

Ensures the system behaves as expected based on requirements.

- **Unit Testing:** Tests individual components like booking form, availability checker, or service selector.
- **Integration Testing:** Verifies that modules (e.g., booking + payment + notification) work together smoothly.
- **System Testing:** Validates the complete system workflow from login to booking confirmation.
- **User Acceptance Testing (UAT):** Confirms the system meets business needs and is ready for deployment.

###### Non-Functional Testing

Evaluates system attributes beyond functionality.

- **Performance Testing:** Checks how the system handles load—e.g., multiple users booking simultaneously.
- **Security Testing:** Ensures data protection, role-based access, and safe payment processing.
- **Usability Testing:** Assesses how intuitive and user-friendly the portal and admin dashboard are.
- **Compatibility Testing:** Verifies the system works across browsers, devices, and screen sizes.

## A CRM APPLICATION FOR BANQUET HALL BOOKING

- **Reliability Testing:** Confirms the system performs consistently over time without crashing.

### ⚙️ Automation vs Manual Testing

Type	Description
Manual Testing	Testers execute test cases manually—ideal for exploratory and UAT testing
Automated Testing	Uses tools/scripts to run repetitive tests—great for regression and performance

### 🧠 Salesforce-Specific Testing Tools

- **Apex Test Classes:** For unit testing custom logic written in Apex.
- **Salesforce Flow Debugger:** To test and troubleshoot automation flows.
- **Lightning Testing Service (LTS):** For JavaScript component testing.
- **Sandbox Testing:** Safe environment to test without affecting live data.

The screenshot displays a Salesforce CRM interface for a 'Banquet Hall Booking' application. The main form is titled 'Banquet Hall Booking' and contains several input fields: 'Booking Date' (7/19/2025), 'Timings' (Morning), 'Phone No' (8978210522), 'Food Menu' (Veg), 'No of Visitors' (50), and 'Email'. A red error message 'We hit a snag.' is overlaid on the form, indicating a validation error in the 'Email' field. The background shows a list of recently viewed items, including 'Saravana Guhan'.