



# **SNS COLLEGE OF ENGINEERING**

**Kurumbapalayam(Po), Coimbatore – 641 107**

**Accredited by NAAC-UGC with 'A' Grade**

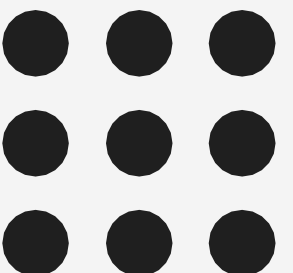
**Approved by AICTE, Recognized by UGC & Affiliated to Anna University, Chennai**

**Department of Artificial Intelligence and Data Science**

**23ITT203 Object Oriented Software Engineering**

**4/9/2025**

**SOWMIYA R/AP/AI&DS/23ITT203 OBJECT ORIENTED SOFTWARE  
ENGINEERING/SNSCE**





# Regression Testing



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# What is Regression Testing?



→ Regression Testing is a type of software testing where already tested features are tested again after any changes are made in the software to ensure that new changes did not break the existing functionality.

## Purpose of Regression Testing:

- To check whether new updates or bug fixes have affected the old working features or not.
- To make sure existing features are still working correctly after changes.

Feature	Regression Testing
Purpose	Check old features after new changes
Example	After adding Netflix Recharge → Mobile Recharge should work properly
Benefits	Avoid new bugs in old working features



# When Regression Testing is Done?



- After adding new features
- After fixing defects/bugs
- After changing existing functionality
- After performance improvement



# Example



## Example: E-Commerce Website (like Amazon / Flipkart)

### Scenario:

Suppose in an online shopping website, a new feature is added →  
→ *"Customers can now pay using UPI Payment option"*

### Regression Testing will check:

Even though only *UPI Payment* is newly added, testers will re-test old important features like:

Product Search is working properly

Add to Cart is working correctly

Payment by Debit Card, Credit Card, Net Banking is working properly

Order Confirmation is sent properly

Old orders are visible in Order History



# Example



## Example: Mobile App Update

In a Mobile Recharge App, a new feature is added to recharge *Netflix Subscription*.

Regression Testing will check:

Is *Mobile Recharge* still working properly?

Is *Bill Payment* working properly?

Is *Recharge History* visible correctly?

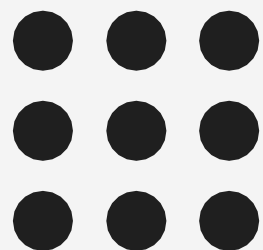


# Benefits of Regression Testing



- Ensures software quality after changes.
- Prevents side effects of code changes.
- Builds confidence that new updates will not affect existing features.





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