



PPSU
P P SAVANI UNIVERSITY

NAAC
ACCREDITATION



P P SAVANI UNIVERSITY

Tutorial NO. - 11

ON

SOFTWARE ENGINEERING(SSCS3010)

TITLE: Usage of Stubs and Drivers in Integration Testing

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY (BSC-IT)

SUBMITTED TO:

Name: MS. HEMANGINI MEHTA(HGM)

Designation: ASSOCIATE PROFESSOR

P P Savani University

SUBMITTED BY:

Name: RAJ MO FAHIM ZAKIR

Enrollment: 23SS02IT161

BSCIT5B-Batch 2023-26

Faculty Signature: _____

**INSTITUTE OF COMPUTER SCIENCE AND APPLICATIONS
P P SAVANI UNIVERSITY
MANGROL, SURAT- 394125 (GUJARAT)**



Student Name: RAJ MO FAHIM ZAKIR

Enrolment Number: 23SS02IT161

Subject Name: SOFTWARE ENGINEERING

Subject Code: SSCS3010

TUTORIAL-11

Date:26/09/2025

Aim: Usage of Stubs and Drivers in Integration Testing

What is Integration Testing?

Integration Testing checks if different **modules in the Resume Builder** (like login, profile creation, template selection, PDF export, etc.) work properly **when combined**.

Since not all modules are ready at the same time, we use **stubs** and **drivers** to test partially developed systems.

Stubs

Definition:

A **stub** is a dummy module that simulates the behavior of a **called module** which is not yet developed.

Use Case:

Used in **bottom-up testing** (when lower-level modules are missing).

Example (Resume Builder):

- Module A = **Template Selector** (ready)
- Module B = **PDF Generator** (not ready yet)
When Module A asks Module B to generate a PDF, we provide a **stub** that always returns “**PDF Generated Successfully**” instead of actually creating one.

Drivers

Definition:

A **driver** is a dummy module that simulates a **calling module** which is not yet developed.



Student Name: RAJ MO FAHIM ZAKIR

Enrolment Number: 23SS02IT161

Subject Name: SOFTWARE ENGINEERING

Subject Code: SSCS3010

Use Case:

Used in **top-down testing** (when higher-level modules are missing).

Example (Resume Builder):

- Module C = **Database Handler (CRUD for user data)** (ready)
- Module D = **Main Dashboard** (not ready yet)
To test Module C, we create a **driver** that sends fake requests like “*Add User Profile*”, “*Fetch Experience Details*” to C without needing the actual dashboard UI.

Easy Summary (Resume Builder Context)

- **Stub** = Fake “called” module → Pretend a service is available.
 - *Example:* Template Selector calls PDF Generator → PDF Generator not ready → Use **stub**.
- **Driver** = Fake “calling” module → Pretend something is using a service.
 - *Example:* Database Handler needs Main Dashboard → Dashboard not ready → Use **driver**.