P P SAVANI UNIVERSITY
ACADEMIC YEAR- 2025-26

TUTORIAL NO. - 3
ON
SOFTWARE ENGINEERING(SSCS3010)

TITLE: Identifying the Suitable Software Development Model for a Given Scenario.

BACHLEOR OF SCIENCE IN INFORMATION TECHNOLOGY (BSC-IT)

SUBMITTED TO: **SUBMITTED BY:**

Name: HEMANGINI MEHTA(HGM)   **Name: RAJ MO FAHIM ZAKIR**

Designation: ASSISTANT PROFESSOR **Enrollnment: 23SS02IT161**

P P Savani University   **BSCIT5B-Batch 2023-26**

Faculty Signature: _____

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

<div align="center">

TUTORIAL-3   **Date:05/07/2025**
</div>

Aim: Identifying the Suitable Software Development Model for a Given Scenario.

Step 1: Understand the Project: Resume Builder for Freshers

Scenario Details:
- ➢ The app will help fresh graduates create professional resumes.
- ➢ You plan to include features like:
    1. Predefined templates
    2. Section-wise editing (Education, Skills, Projects)
    3. Download/export to PDF
    4. Guidance and examples for each section
- ➢ Test and get feedback from real students during development.
- ➢ Requirements may evolve based on feedback.
- ➢ Small to medium project scope with student as end-user, not high-risk.

Step 2: Match Key Factors to Models

Factor	Observation	Implication
Requirements	May evolve based on feedback	❗ Needs iterative/flexible model
User Involvement	Students can give feedback early	👆 Agile or RAD preferred
Delivery Plan	Want early launch and updates	🔁 Incremental / Agile
Risk Level	Low to medium	✖ No need for Spiral
Prototype Needed?	Yes, to validate UX/templates	✔ RAD or Agile suitable
Testing Critical?	Basic testing sufficient	✖ No need for V-Model

Step 3: Apply Checklist

- ➢ Do requirements evolve often? → Yes → Agile / Incremental
- ➢ Is quick feedback or prototype needed? → Yes → Agile / RAD
- ➢ Is customer (user) available for testing/feedback? → Yes → Agile
- ➢ Is this a critical system with regulatory compliance? → No
- ➢ Are all requirements fixed upfront? → No

Suitable Model: Agile Model

Why?
- You can build MVP (Minimum Viable Product) quickly with core resume building.
- You can collect user feedback (from freshers, students, etc.) after each sprint.
- You can add advanced features (AI suggestions, themes, export options) in later iterations.
- Agile allows you to prioritize and deliver value early.

Conclusion:

For a project like **Resume Builder for Freshers**, where user feedback, evolving requirements, and fast delivery are important, the **Agile Model** is best suited. You can start with a basic version and keep improving through sprints based on feedback. RAD could be considered if the focus is on rapid prototyping.