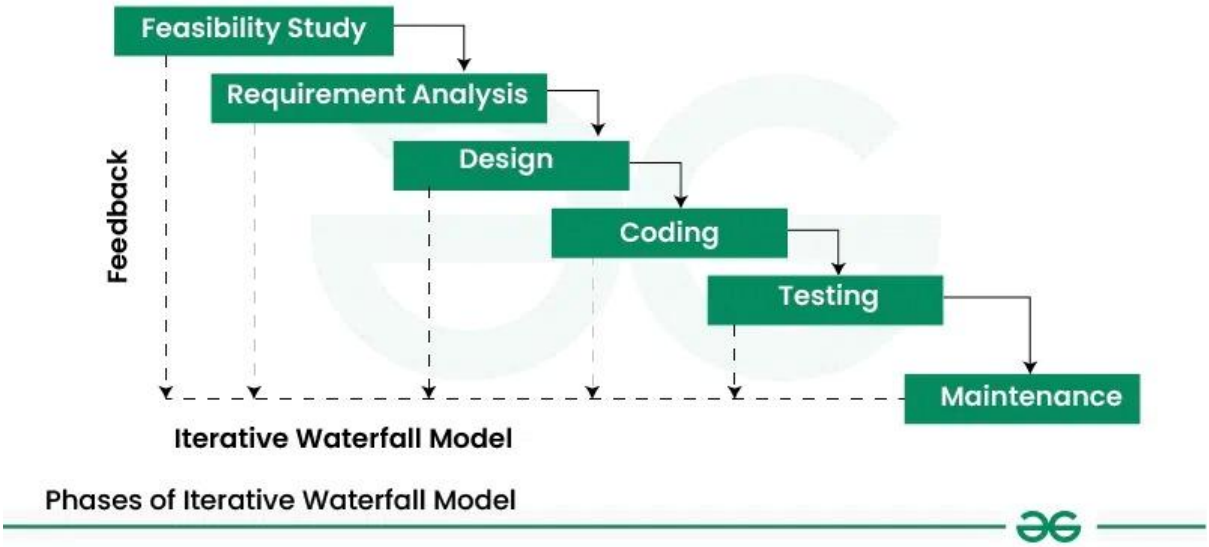
Name – Pranav Kumar Ray

Sap id – 590012490



Phases of Iterative Waterfall Model

Top 5 job requirements in each phase of the Iterative Waterfall Model

A) Feasibility Study

Business Analyst (BA) – checks business value, cost, ROI

Product Analyst – evaluates market fit and profitability

IT Consultant – advises on technical feasibility

Project Manager (Initiation Phase) – estimates budget & timeline

Solution Architect (High-level) – checks system feasibility

B) Requirement Analysis

Business Analyst (Core Role) – gathers & documents requirements

System Analyst – converts business needs into system specs

Product Owner – prioritizes requirements (Agile + Waterfall)

Technical Analyst – bridges dev team & stakeholders

UX Researcher – user needs, pain points, workflows

C) Design

Software Architect – system structure, scalability

UI/UX Designer – screens, user flows, wireframes

Database Designer / Data Architect – schema & data flow

System Designer – detailed technical design

Cloud Architect – AWS / Azure system design

D) Coding

Software Developer / Engineer (Java, Python, C++, JS)

Frontend Developer (React, Angular, Vue)

Backend Developer (Spring Boot, Node.js, Django)

Mobile App Developer (Android / iOS / Flutter)

DevOps Engineer – CI/CD, deployment, automation

E) Testing

Software Test Engineer (Manual)

Automation Test Engineer (Selenium, Cypress)

QA Analyst – test planning & quality checks

Performance Tester (JMeter, LoadRunner)

Security Tester – vulnerability & penetration testing

F) Maintenance

Support Engineer (L2/L3)

Site Reliability Engineer (SRE)

Maintenance Developer – bug fixes & enhancements

System Administrator

Application Support Analyst