

# INFOSOFT IT SOLUTIONS

Training | Projects | Placements

Revathi Apartments, Ameerpet, 1st Floor, Opposite Annapurna Block,

Infosoft It solutions, Software Training & Development Institute, 9059683947 | 9182540872

## **Behavior Driven Development Training**

### **Introduction to Behavior Driven Development (BDD)**

- Overview of BDD: Concepts, principles, and benefits
- Evolution from Test-Driven Development (TDD) to BDD
- BDD vs. Traditional Testing Approaches

### **Understanding BDD Frameworks**

- Introduction to BDD Frameworks: Cucumber, SpecFlow, Behat, etc.
- Setting up BDD Environment: Installation and configuration of chosen framework
- Feature Files and Gherkin Syntax: Writing scenarios in a human-readable format

### **Gherkin Language Essentials**

- Gherkin Syntax: Keywords (Feature, Scenario, Given-When-Then), scenario outlines, and examples
- Writing Effective Scenarios: Best practices for scenario design and readability
- Tagging Scenarios: Organizing and grouping scenarios using tags

## **Implementing BDD with Cucumber**

- Cucumber Basics: Features, Scenarios, and Step Definitions
- Writing Step Definitions: Mapping Gherkin steps to automation code
- Data-Driven Testing with Cucumber: Using Examples and Scenario Outlines

## **Executing BDD Scenarios**

- Running Cucumber Tests: Command-line execution, IDE integration
- Test Reports and Feedback: Generating and interpreting test reports
- Integrating with Continuous Integration (CI) tools: Jenkins, GitLab CI, etc.

## **BDD Best Practices and Patterns**

- Red-Green-Refactor Cycle: TDD principles in BDD context
- Using Background and Hooks: Setting up preconditions and cleanup actions
- Scenario Design Patterns: Reusable steps, parameterization, and abstraction

## **Collaboration and Communication in BDD**

- BDD in Agile Teams: Roles and responsibilities
- Three Amigos Sessions: Facilitating collaboration among developers, testers, and product owners
- Writing Effective User Stories: User story mapping and acceptance criteria

## **BDD for API and Backend Testing**

- Testing APIs with BDD: Using Cucumber for API testing
- Mocking and Stubbing: Simulating API responses in BDD scenarios
- Testing Non-functional Requirements: Performance, security, and scalability

## **Advanced Topics in BDD**

- BDD Beyond Functional Testing: Integration testing, UI testing, and end-to-end testing
- Behavior-Driven Design: Applying BDD principles to software design and architecture
- BDD for Microservices: Testing strategies for microservices architecture

## **BDD Case Studies and Real-world Applications**

- Case Studies: Industry-specific applications of BDD
- Success Stories: Implementations and benefits of adopting BDD practices
- Best Practices and Lessons Learned from Real-world Implementations

## **Continuous Improvement and Feedback Loop**

- Retrospectives and Continuous Improvement: Applying BDD feedback to improve scenarios and automation
- Metrics and KPIs: Measuring success and ROI of BDD adoption
- Building a Culture of Quality: Embedding BDD principles into the organizational culture

## **Career Development and Skills Enhancement**

- Building a Career in BDD and Test Automation: Skills development and certifications
- Interview Preparation: Common BDD-related interview questions and scenarios