VIJAY KUMAR CHIRUTHA SOFTWARE COURSES

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VIJAY KUMAR CHIRUTHA

SOFTWARE COURSES

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Modules

MANUAL TESTING FOUNDATION

- Introduction to software testing, quality assurance & control
- Software Development Life Cycle (SDLC) & Software Testing Life Cycle (STLC)
- Types of testing: functional, non-functional, smoke, sanity, regression, UI/UX, compatibility, localisation, device & responsive testing
- Test planning, test strategy, test case design, traceability matrix
- Defect life-cycle, bug reporting, QA vs QC
- Agile & Scrum basics in QA, sprint ceremonies

INTRODUCTION TO AUTOMATION & SELENIUM

- Why automation vs manual; when to automate
- Basics of automation tools; introduction to Selenium WebDriver suite
- Installing environment: Java or Python, IDE setup, WebDriver, browsers

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CORE PROGRAMMING FOR TESTERS

- **Programming fundamentals (Java or Python): variables, data types, operators, loops, arrays**
- **Object-Oriented Programming (classes, objects, inheritance, polymorphism)**
- **Exception handling, collections, file I/O**
- **Basics of writing test scripts with code**

SELENIUM WEB UI AUTOMATION

- **Locators: ID, Name, ClassName, XPATH, CSS selectors; handling dynamic locators**
- **Web element interactions: click, type, select, checkboxes, radio buttons, dropdowns, web tables, frames, alerts**
- **Synchronisation: waits (implicit, explicit, fluent), handling AJAX calls**
- **Handling multiple windows/tabs, iFrames, upload/download, headless browsers**
- **Framework design: Data-driven, Keyword-driven, Hybrid frameworks; Page Object Model (POM)**
- **Cross-browser testing, parallel execution, Selenium Grid**

API, DATABASE & BACKEND TESTING

- **Basics of APIs: REST vs SOAP, HTTP methods, status codes, headers, JSON/XML payloads**
- **API automation with tools/frameworks (e.g., REST Assured)**
- **SQL fundamentals for testers: queries, joins, validations, stored procedures**
- **Database testing: validate data behind UI/API flows**

TOOLS, CI/CD & DEVOPS FOR TESTERS

- **Version Control (e.g., Git & GitHub)**
- **Build and dependency management (Maven/Gradle)**
- **Continuous Integration with Jenkins or similar tools**
- **Test reporting and logging (Log4j, ExtentReports)**
- **Integration with test pipelines: execute UI/API tests in CI/CD**

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CROSS-PLATFORM / MOBILE / CLOUD & ADVANCED TESTING

- Mobile application testing basics (Android/iOS) using tools (e.g., Appium)
- Cloud testing: browser cloud services (BrowserStack/SauceLabs) for cross-platform browser/device tests
- Performance, security and accessibility testing fundamentals
- Introduction to AI/ML in testing: intelligent test-case generation, anomaly detection, AI-based test data generation

AI-ENABLED TESTING MODULES

- Basics of AI/ML relevant to QA: supervised vs unsupervised learning, anomaly detection
- Test-data generation using AI, predictive analytics in defect prevention
- Visual/UI testing with AI: image comparison, mismatch detection, visual regressions
- Chatbot/voice testing scenarios and automation
- AI-powered test framework integration: integrating AI modules into Selenium or API automation

Modules

PROJECT WORK & REAL-TIME APPLICATION

- Mini project: Manual testing on a live web application — write test plan, test cases, execute and log bugs
- Automation project: Build UI automation scripts using Selenium for selected module
- API/DB project: Automate backend/API flows and validate database states
- AI testing project: Implement an AI-powered test (e.g., visual regression with AI, or anomaly detection from logs)
- Full stack test automation project: UI + API + DB + CI/CD + Cloud or mobile environment

SOFT SKILLS, INTERVIEW PREP & CAREER READINESS

- Communication skills: report writing, bug reporting, QA metrics
- Resume building and portfolio: attach your test automation frameworks and projects
- Mock interviews: manual testing, automation concepts, framework design, object-oriented programming
- Industry practices: Agile QA role, collaboration with dev/DevOps/SDET teams, metrics and dashboards

OUR SERVICE

WE ARE PROVIDING MULTIPLE SOFTWARE COURSES

- DATA SCIENCE WITH AI
- DATA ANALYTICS WITH AI
- DATA ANALYST AND BUSINESS ANALYST WITH AI
- MANUAL TESTING AND SELENIUM WITH AI
- PYTHON FULL STACK WITH AI
- JAVA FULL STACK WITH AI
- DIGITAL MARKETING WITH AI
- TABLEAU + SQL WITH AI
- ORACLE, SQL, MYSQL
- EXCEL AND ADVANCED EXCEL WITH AI
- SAP [ALL MODULES]
- SALESFORCE
- GEN AI
- CYBER SECURITY WITH AI
- VIDEO EDITING COURSE
- SERVICE NOW
- MULESOFT
- AWS/AZURE DEVOPS
- MS OFFICE
- POWER APPS

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About US

- We are Providing the Software Courses for both Online and Offline
- We have well Experienced and Real Time Trainers
- We give the best content to cover all your course syllabus and its practical knowledge
- We give 2 to 3 Assignments to our students which helps the more interactivity with course and its practical real time scenario knowledge
- We explains the 2 to 3 projects and letting the students to know to how to do real time projects once they get selected

THANK YOU SO MUCH

CONTACT US

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