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Testautomatisierung

Konzepte, Methoden und Techniken



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Basiswissen Testautomatisierung Konzepte Methoden Techniken

**Angi Mathea, Daniel Börger, Dennis
Rieks**



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Basiswissen Testautomatisierung Thomas Bucsecs, Manfred Baumgartner, Richard Seidl, Stefan Gwihs, 2015-06

JUnit-Profiwissen Michael Tamm, 2013-12-03 JUnit ist die Standardbibliothek zum Schreiben automatisierter Tests in Java. Dieses Buch enthält Grundlagen und Expertenwissen für das effiziente Entwickeln automatisierter Tests in Java mit JUnit. Es vermittelt einen kompakten Überblick über alle Features von JUnit 3.8.1 bis JUnit 4.11 und zeigt anhand von Beispielen aus Tests bekannter Open Source Projekte, wann Sie diese sinnvoll einsetzen können. Darüber hinaus behandelt der Autor Open Source Bibliotheken wie Mockito und FEST, die das Schreiben von JUnit Tests erleichtern und verdeutlicht

Programmierungsregeln für das Schreiben richtig guter Tests. Im Einzelnen werden behandelt: Testgetriebene Entwicklung, Assertion Bibliotheken, Unit Tests mit Mock-Objekten, Programmieren gut verständlicher Tests, Programmieren schneller Tests, Tests abseits vom Happy Path, Nichtfunktionale Tests. Abgerundet wird das Buch durch Hinweise und Tipps, wie Sie JUnit effektiv zusammen mit den bekannten Java IDEs Eclipse und IntelliJ IDEA sowie mit den Build Tools Ant und Maven einsetzen können.

Einführung in die Informatik Heinz Peter Gumm, Manfred Sommer, 2012-12-01 Eine anschauliche und umfassende Einführung in die grundlegenden Konzepte der Informatik: Grundlagen, Methoden und Theorie der Programmierung, Erklärung des Aufbaus eines Computers vom Transistor bis zur CPU, Maschinen- und Assemblersprache, Betriebssysteme, Netze und ihre Protokolle, das Internet mit E-Mail, FTP und WWW, HTML und Java Applets zur Gestaltung eigener Web-Seiten. Abgerundet wird das Lehrbuch durch Ausblicke auf weiterführende Themen: Compilerbau, Graphikprogrammierung,

Datenbanksysteme und Software-Entwicklung. **Automatisiertes Testen** Angi Mathea, Daniel Börgers, Dennis Riess, 2017-01-20 Der Traum, die eigene Arbeit zu automatisieren und einfach die Folge hochzulegen, ist wahrscheinlich jedem Entwickler schon einmal durch den Kopf geschossen. Besonders im agilen Arbeitsumfeld sind gewisse Automatisierungen allerdings tatsächlich unabdingbar bei schnellen Releasezyklen. müssen zum Beispiel Tests zumindest teilweise automatisiert ablaufen. Dieser Shortcut bietet alle notwendigen Informationen, um das automatisierte Testen mit Geb und ScalaTest durchzuführen. Im ersten Kapitel wird das Geb-Framework für die Webautomation vorgestellt, während im zweiten Kapitel die Erfahrung mit der Verwendung von ScalaTest geschildert wird. iX Developer – Altlasten im Griff iX-Redaktion, 2016-11-23 Zwar

beschäftigen sich Entwickler gern und viel mit der neusten Technik im Unternehmensalltag, nehmen jedoch Maintenance- und Ausbauarbeiten die meiste Zeit in Anspruch, wenn es um Software-Produkte geht. Das Sonderheft iX Developer Altlasten im Griff gibt Programmierern Tipps, wie sich Code wart- und erweiterbar gestalten lässt, zeigt, was bei der Migration zu beachten ist, und berichtet beim Umstrukturieren und Verbessern von Code. Darüber hinaus berichten Autoren von aktuellen Legacy-Projekten und demonstrieren, dass auch die Beschäftigung mit alter Software durchaus lohnen kann. **Agile Business**

Intelligence Stephan Trahasch, Michael Zimmer, 2016-01-12 Agile Methoden und Vorgehensweisen werden heute auch in BI-Projekten erfolgreich und gewinnbringend eingesetzt. Dabei steht eine ganze Reihe unterschiedlicher Ansätze zur Steigerung

der BI Agilität zur Verfügung Entscheidend für den Erfolg ist die ganzheitliche Betrachtung von BI Architekturen Organisationsformen Technologien und an BI angepasste agile Vorgehensmodelle Die Autoren erläutern in diesem Buch Agile Business Intelligence indem sie zunächst BI Agilität mithilfe eines Ordnungsrahmens definieren und strukturieren Auf diesen Grundlagen aufbauend zeigen sie anhand von konkreten Fallstudien wie Agilität in BI Projekten umgesetzt werden kann Hierbei handelt es sich beispielsweise um die Durchführung agiler Projekte zum Aufbau eines Data Warehouse oder um die Umsetzung von Sandboxes auf Basis von In Memory Technologien Behandelt werden im Einzelnen Der Einsatz von Scrum in der Business Intelligence Anforderungsmanagement durch User Stories Modellierung agiler BI Systeme Data Vault für agile Data Warehouse Architekturen Agile BI Architekturen Automatisiertes Testen BI Agilität Relevanz Anforderungen und Maßnahmen Agil und dezentral zum Enterprise Data Warehouse Das Buch richtet sich an Praktiker aus dem BI Projektmanagement und der BI Entwicklung sowie an BI Entscheider BI Berater und Mitarbeiter aus den Fachabteilungen die für BI Lösungen verantwortlich sind In der Edition TDWI erscheinen Titel die vom dpunkt verlag gemeinsam mit dem TDWI Germany e V ausgewählt und konzipiert werden Inhaltliche Schwerpunkte dieser Reihe sind Business Intelligence und Data Warehousing

Empirical Research for Software Security Lotfi ben Othmane, Martin Gilje Jaatun, Edgar Weippl, 2017-11-28 Developing secure software requires the integration of numerous methods and tools into the development process and software design is based on shared expert knowledge claims and opinions Empirical methods including data analytics allow extracting knowledge and insights from the data that organizations collect from their processes and tools and from the opinions of the experts who practice these processes and methods This book introduces the reader to the fundamentals of empirical research methods and demonstrates how these methods can be used to hone a secure software development lifecycle based on empirical data and published best practices

Basiswissen Testautomatisierung Manfred Baumgartner, Stefan Gwihs, Richard Seidl, Thomas Steirer, Marc-Florian Wendland, 2021-01-30 Testautomatisierung ist ein mächtiges Werkzeug um Tests wiederholbar zu machen und effizienter zu gestalten Dieses Buch erklärt wie Testautomatisierung mit Fokus auf den funktionalen Systemtest konzipiert und in bestehende Projekte und die Organisation eingegliedert wird Dabei werden sowohl fachliche als auch technische Konzepte vorgestellt Beispiele aus verschiedenen Einsatzgebieten z B Webapplikationen Data Warehouse Systeme und Projektarten z B Scrum V Modell erläutern die methodischen Grundlagen Auch auf Werkzeuge sowie Qualitätsgewinne und Einsparpotenziale durch Testautomatisierung wird eingegangen Aus dem Inhalt Testprozess und Entwicklungsvorgehen Testfallspezifikation und Durchführung Konzeption eines Automatisierungsframeworks Einsatzgebiete nach System Test und Projektart Testdurchführungswerkzeuge Integration in die Organisation Im Anhang finden sich Beispiele zur Erstellung von daten und schlüsselwortgetriebenen Testfällen sowie beispielhaft ein Kriterienkatalog zur Auswahl eines Testwerkzeugs aus der Praxis

Basiswissen Testautomatisierung Manfred Baumgartner, Stefan Gwihs, Richard Seidl, Thomas Steirer, Marc-Florian Wendland, 2021-01-30 Testautomatisierung

ist ein mächtiges Werkzeug um Tests wiederholbar zu machen und effizienter zu gestalten. Dieses Buch erklärt wie Testautomatisierung mit Fokus auf den funktionalen Systemtest konzipiert und in bestehende Projekte und die Organisation eingegliedert wird. Dabei werden sowohl fachliche als auch technische Konzepte vorgestellt. Beispiele aus verschiedenen Einsatzgebieten z.B. Webapplikationen, Data Warehouse Systeme und Projektarten z.B. Scrum V-Modell erläutern die methodischen Grundlagen. Auch auf Werkzeuge sowie Qualitätsgewinne und Einsparpotenziale durch Testautomatisierung wird eingegangen. Aus dem Inhalt: Testprozess und Entwicklungsvorgehen, Testfallspezifikation und Durchführung, Konzeption eines Automatisierungsframeworks, Einsatzgebiete nach System, Test und Projektart, Testdurchführungswerkzeuge, Integration in die Organisation. Im Anhang finden sich Beispiele zur Erstellung von daten- und schlüsselwortgetriebenen Testfällen sowie beispielhaft ein Kriterienkatalog zur Auswahl eines Testwerkzeugs aus der Praxis. Basiswissen Testautomatisierung
Manfred Baumgartner, 2021

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