

# Selenium Framework

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graph TD; A[Selenium Framework] --> B[Data driven Framework]; A --> C[Keyword driven Framework]; B --> D[Hybrid Framework]; C --> D;
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Data driven  
Framework

Keyword driven  
Framework

Hybrid Framework

# Selenium Testng Hybrid Framework

**Prashanth Sams**



## **Selenium Testng Hybrid Framework:**

**Selenium WebDriver Quick Start Guide** Pinakin Chaubal, 2018-10-30 Get writing tests and learn to design your own testing framework with Selenium WebDriver API Key Features Learn Selenium from the ground up Design your own testing framework Create reusable functionality in your framework Book Description Selenium WebDriver is a platform independent API for automating the testing of both browser and mobile applications It is also a core technology in many other browser automation tools APIs and frameworks This book will guide you through the WebDriver APIs that are used in automation tests Chapter by chapter we will construct the building blocks of a page object model framework as you learn about the required Java and Selenium methods and terminology The book starts with an introduction to the same origin policy cross site scripting dangers and the Document Object Model DOM Moving ahead we ll learn about XPath which allows us to select items on a page and how to design a customized XPath After that we will be creating singleton patterns and drivers Then you will learn about synchronization and handling pop up windows You will see how to create a factory for browsers and understand command design patterns applicable to this area At the end of the book we tie all this together by creating a framework and implementing multi browser testing with Selenium Grid What you will learn Understand what an XPath is and how to design a customized XPath Learn how to create a Maven project and build Create a Singleton driver Get to grips with Jenkins integration Create a factory for browsers Implement multi browser testing with Selenium Grid Create a sample pop up window and JavaScript alert Report using Extent Reports Who this book is for This book is for software testers or developers

**Learning Selenium Testing Tools - Third Edition** Raghavendra Prasad MG, 2015-02-24 If you are a software developer with a basic knowledge of testing and are interested in automated testing using Selenium this is the book for you No prior knowledge of Selenium is required **Learn Selenium in 24 Hours** Alex Nordeen, 2020-09-15 Selenium is a the most popular open source test automation tool Its widely used in Industry to automate web and mobile projects Selenium can be used to test across different browsers and platforms Its flexible enough to allow you to code your automation scripts in languages like Java C Python etc Selenium primarily has 3 components Selenium Integrated Development Environment IDE Selenium WebDriver Selenium Grid This book covers tutorials and training to teach you Selenium 2 as well Selenium 3 The book uses Java as the scripting language This book covers tutorials and training to teach you Selenium 2 as well Selenium 3 The book uses Java as the scripting language Table Of Content Chapter 1 Introduction to Selenium Chapter 2 Introduction to WebDriver Comparison with Selenium RC Chapter 3 Guide to install Selenium WebDriver Chapter 4 Creating your First Script in Webdriver Chapter 5 Find Element Chapter 6 Accessing Forms in Webdriver Chapter 7 Accessing Links Tables using Selenium Webdriver Chapter 8 Keyboard Mouse Events Uploading Files Webdriver Chapter 9 Upload Download a File Chapter 10 XPath Chapter 11 TestNG with Selenium Chapter 12 Handling Date Time Picker Chapter 13 Handling Alert Popup Chapter 14 Handling Dynamic Web Tables Chapter 15 Using Contains Sibling Ancestor to Find Element Chapter 16

Implicit Explicit Waits Chapter 17 Parameterization using XML and DataProviders Chapter 18 Excel in Selenium Chapter 19 Page Object Model POM Page Factory Chapter 20 Selenium Grid Chapter 21 Keyword Hybrid Frameworks with Selenium Chapter 22 Database Testing using Selenium Chapter 23 Handling Iframes in Selenium Chapter 24 Cross Browser Testing Chapter 25 PDF Emails and Screenshot of Test Reports Chapter 26 How to Take Screenshot in Selenium Chapter 27 HTMLUnit Driver PhantomJS Chapter 28 Robot API Chapter 29 AutoIT Chapter 30 Ajax Chapter 31 Drag and Drop action Chapter 32 Handling Cookie

**500 Selenium Testing Interview Questions and Answers** Vamsee Puligadda, Get that job you aspire for Want to switch to that high paying job Or are you already been preparing hard to give interview the next weekend Do you know how many people get rejected in interviews by preparing only concepts but not focusing on actually which questions will be asked in the interview Don't be that person this time This is the most comprehensive Selenium Testing interview questions book that you can ever find out It contains 500 most frequently asked and important Selenium Testing interview questions and answers Wide range of questions which cover not only basics in Selenium Testing but also most advanced and complex questions which will help freshers experienced professionals senior developers testers to crack their interviews

*International Conference on Social Science and Management* ICSSM 2014 Prof. S. Narayanasamy, 2014-03-26 It is my honor to welcome all of you to Chicago USA to participate in the 2014 International Conference on Social Science and Management ICSSM2014 which will be held during March 15 to 16 2014 The ICSSM2014 is co sponsored by Advanced Information Science Research Center AISRC Khon Kaen University Dalhousie University and University of Stirling The conference proceeding is published by DEStech Publications Inc ICSSM2014 provides an excellent international forum for sharing knowledge and results in theory methodology and applications of Social Science and Management The conference looks for significant contributions to all major fields of the modern Social Science and Management in theoretical and Application aspects The aim of the conference is to provide a platform to the global researchers and practitioners from both academia as well as industry to meet and share cutting edge development in the fields This ICSSM2014 proceedings tends to collect the up to date comprehensive and worldwide state of art knowledge on social science and management including sociology law information management innovation management engineering management etc All of accepted papers were subjected to strict peer reviewing by 24 expert referees The papers have been selected for this volume because of quality and the relevance to the conference We hope this book will not only provide the readers a broad overview of the latest research results but also provide the readers a valuable summary and reference in these fields ICSSM2014 organizing committee would like to express our sincere appreciations to all authors for their contributions to this book We would like to extend our thanks to all the referees for their constructive comments on all papers especially we would like to thank to organizing committee for their hard working

**Selenium Framework Design in Data-Driven Testing** Carl Cocchiari, 2018-01-23 Take a deep dive into building data driven test frameworks using

Selenium WebDriver Key Features A comprehensive guide to designing data driven test frameworks using the Selenium 3 WebDriver API AppiumDriver API Java Bindings and TestNG Learn how to use Selenium Page Object Design Patterns and D R Y Don't Repeat Yourself Approaches to software development in automated testing Discover the Selenium Grid Architecture and build your own grid for browser and mobile devices Use third party tools and services like ExtentReports for results processing reporting and SauceLabs for cloud based test services Book Description The Selenium WebDriver 3 x Technology is an open source API available to test both Browser and Mobile applications It is completely platform independent in that tests built for one browser or mobile device will also work on all other browsers and mobile devices Selenium supports all major development languages which allow it to be tied directly into the technology used to develop the applications This guide will provide a step by step approach to designing and building a data driven test framework using Selenium WebDriver Java and TestNG The book starts off by introducing users to the Selenium Page Object Design Patterns and D R Y Approaches to Software Development In doing so it covers designing and building a Selenium WebDriver framework that supports both Browser and Mobile Devices It will lead the user through a journey of architecting their own framework with a scalable driver class Java utility classes JSON Data Provider Data Driven Test Classes and support for third party tools and plugins Users will learn how to design and build a Selenium Grid from scratch to allow the framework to scale and support different browsers mobile devices versions and platforms and how they can leverage third party grids in the Cloud like SauceLabs Other topics covered include designing abstract base and sub classes inheritance dual driver support parallel testing testing multi branded applications best practices for using locators and data encapsulation Finally you will be presented with a sample fully functional framework to get them up and running with the Selenium WebDriver for browser testing By the end of the book you will be able to design your own automation testing framework and perform data driven testing with Selenium WebDriver What you will learn Design the Selenium Driver Class for local remote and third party grid support Build Page Object Classes using the Selenium Page Object Model Develop Data Driven Test Classes using the TestNG framework Encapsulate Data using the JSON Protocol Build a Selenium Grid for RemoteWebDriver Testing Construct Utility Classes for use in Synchronization File I O Reporting and Test Listener Classes Run the sample framework and see the benefits of a live data driven framework in real time Who this book is for This book is intended for software quality assurance testing professionals software project managers or software developers with prior experience in using Selenium and Java to test web based applications This book is geared towards the quality assurance and development professionals responsible for designing and building enterprise based testing frameworks The user should have a working knowledge of the Java TestNG and Selenium technologies [Selenium Essentials](#) Prashanth Sams,2015-03-27 If you are a developer who wants to migrate from Selenium RC or any other automation tool to Selenium WebDriver then this book is for you Knowledge of automation tools is necessary to follow the examples in this book **Combining Visual Intelligence**

**and Federated Learning in Smart Healthcare** Guduri, Manisha, Chakraborty, Chinmay, Margala, Martin, 2025-08-11 Smart devices in healthcare can interact with the environment by gathering processing interpreting storing and retrieving information originated from sensors neuromorphic analog circuits robots and other data retrieving sources through explainable AI Internet of Things gestural technology and federated learning These systems can utilize visual languages to improve communication with people in real life scenarios such as intelligent devices which recognize patterns Such languages combined with intelligent experience based healthcare systems fall in the area of visual intelligence empowering people to understand how machines process the data smart healthcare devices The combination of smart healthcare and visual intelligence with federated learning may give rise to new applications in fields as diverse as healthcare education marketing gaming and automation Combining Visual Intelligence and Federated Learning in Smart Healthcare explores research areas that connect visual information processing with intelligence federated learning and the Internet of Things promoting their integration and exciting new developments It examines theories practices and experiences in the field of smart healthcare for visual intelligence with federated learning This book covers topics such as artificial intelligence predictive analytics and smart technology and is a useful resource for medical professionals business owners healthcare workers computer engineers data scientists academicians and researchers *Software Automation Testing Secrets Revealed* Narayanan Palani, Learn to write automation test scripts using Selenium Web driver version 3 x and 2 x in java programming java script C python and run in Cucumber BDD feature files Conduct experiment to write protractor based Cucumber BDD framework in java script Build TDD frameworks with the help of Testing Visual Studio Jenkins Excel VBA Selenium HP UFT formerly QTP Ranorex RFT and other wide ranged QA testing tools Design first Appium scripts after setting up the framework for mobile test automation Build concurrent compatibility tests using Selenium Grid Repeated interview questions are explained with justifications for Cucumber BDD Selenium IDE Selenium web driver and Selenium Grid **Software Engineering Exam Preparation** Cybellium, 2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey [www.cybellium.com](http://www.cybellium.com) *Science of Selenium* Kalilur Rahman, 2019-12-10 Step by step guide to understand key concepts for Selenium Automation using examples to shine in your interview for test automation roles DESCRIPTION Software Engineering has taken massive strides with a multitude of technology innovations

With several changes being introduced development of products and their integration into the market understanding of mobile devices and user interface channels across a plethora of platforms is getting complex day by day In addition since the process or procedures of software testing for products and applications can become an act of boiling the ocean the role of test automation is crucial while dealing with such challenges This book aims to equip you with just enough knowledge of Selenium in conjunction with concepts you need to master to succeed in the role of Selenium Automation Engineer It is the most widely used test automation tool and a much sought after automated testing suite by automation engineers who are equipped with technical expertise and analytical skills for web applications across different browsers and platforms The book starts with a brief introduction to the world of automation and why it is important succinctly covering the history of Selenium and the capabilities it offers In this book you will learn how to do simple Selenium based automation with examples and understand the progressive complexity of some key features Before diving deep into advanced concepts such as Page Object Models Test Automation Framework and Cross Browser testing you will grasp comprehensive knowledge of several concepts related to Java Python JavaScript and Ruby programming languages In addition concepts on Selenium Web Driver Grid and use of Selenium Locators IDEs and tools to build complex test automation framework are also explained with practical examples Each chapter has a set of key concepts and questions that one may face during interviews

**KEY FEATURES** Acquire Selenium skills to do independent test automation projects Learn the basics of Selenium Web Driver for test automation using Selenium Understand Page Object Model including how and when they re used in test automation Understand the approach for building a test automation framework Build Selenium test automation scripts using various languages Java Python JavaScript Node JS and Ruby Learn how to report and integrate with CI tools for test automation Get some professional tips for handling interviews and test automation approach Implement cross browser testing scenarios using Selenium Grid and commercial tools and services

**WHAT WILL YOU LEARN** By the end of the book you will find several examples to help ignite your understanding and usage of Selenium across a myriad of languages and frameworks With this you ll be able to put your knowledge to practice and solve real life test automation challenges such as testing a web site mobile application and leveraging tools available for fast tracking your test automation approach You can also choose to practice additional examples provided in the code bundle of the book to master the concepts and techniques explained in this book

**WHO THIS BOOK IS FOR** The book is intended for anyone looking to make a career in test automation using Selenium all aspiring manual testers who want to learn the most powerful test automation framework Selenium and associated programming languages or working professionals who want to switch their career to testing While no prior knowledge of Selenium test automation or related technologies is assumed it will be helpful to have some programming experience to understand the concepts explained in this book

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Automation with Selenium Using Java Python 7 Selenium Coding with Other Languages Ruby JavaScript 8 Building a Test Automation Framework with Selenium 9 Advanced Features of Selenium Using Java Python 10 Cross Browser Test Automation 11 Tips and Tricks for Test Automation 12 Interview Tips      [The DevOps and Release Management Handbook 2025](#) Author 1 : JUSTIN RAJAKUAMR MARIA THASON, Author 2 : DR ARPIT JAIN, PREFACE In today's fast paced digital landscape the ability to deliver software rapidly reliably and efficiently is paramount to the success of any organization DevOps and release management have emerged as critical disciplines that bridge the gap between development and operations enabling continuous integration continuous delivery and seamless deployment This handbook is designed to serve as a comprehensive guide for professionals navigating the complexities of DevOps practices and release management strategies providing actionable insights best practices and practical frameworks The journey toward effective DevOps implementation and streamlined release management is challenging often requiring cultural shifts process re engineering and the adoption of advanced automation tools With contributions from seasoned practitioners this book addresses the foundational principles of DevOps explores the nuances of release pipelines and delves into the orchestration of continuous delivery workflows It also covers the critical aspects of monitoring compliance and risk mitigation that ensure software quality and operational stability in production environments Whether you are a software developer system administrator release manager or an IT leader this handbook offers valuable perspectives to help you optimize your software delivery lifecycle The content balances theoretical frameworks with real world case studies illuminating the path to higher collaboration faster feedback loops and improved customer satisfaction As the industry continues to evolve so too do the tools and methodologies underpinning DevOps and release management This book aims to be both a foundational resource and a forward looking guide equipping readers with the knowledge to adapt to emerging trends and technologies I hope this handbook empowers you to embrace the DevOps mindset implement robust release strategies and drive transformative improvements in your software delivery processes      **Ultimate Selenium WebDriver for Test Automation: Build and Implement Automated Web Testing Frameworks Using Java, Selenium WebDriver and Selenium Grid for E-Commerce, Healthcare, EdTech, Banking, and SAAS** Robin Gupta, 2024-02-28 Elevate your test automation skills by mastering Selenium with Java delving into advanced techniques for a comprehensive understanding Key Features Step by step approach from fundamentals on Selenium testing to advanced concepts like Selenium Grid and framework development Enriched with practical case studies from e commerce healthcare EdTech banking and SAAS to highlight Selenium's real world web testing Hands on exercises and detailed code examples to ensure an engaging and accessible learning experience Book Description This comprehensive and practical handbook centered on Selenium unlocks its potential using Java The book covers Selenium basics including IDE and WebDriver while delving into advanced topics like Selenium Grid and non functional test automation It will help you take your automation to the next level by gaining insights into creating Hybrid test



automation frameworks with practical applications of TestNG Real world insights from industry leaders enrich the learning experience transcending tool proficiency to strategic test automation and framework design With practical examples and case studies from diverse sectors including banking healthcare e commerce and SAAS the book showcases Selenium s real world applications By the end of the book you will extend Selenium s capabilities for Performance Security and Excel based automation The book will help you stay ahead in the ever evolving field with insights into the latest updates including Selenium Manager BiDi protocol network interception relative locators and Selenium s roadmap What you will learn Master the fundamentals of Selenium including Locator strategies Synchronization and WebDriver for effective web application testing Explore handling Shadow DOM JavaScript Executor Page Objects Screenplay pattern and BDD with Cucumber for sophisticated testing techniques Develop Hybrid test automation frameworks using Selenium gaining practical insights with TestNG integration Learn to scale tests across diverse environments using Selenium Grid boosting overall testing efficiency Enhance Selenium for Performance Security and Excel based test automation Grasp the latest Selenium updates including Selenium Manager BiDi protocol network interception relative locators and Selenium s roadmap for staying ahead in the field Explore innovative methods to integrate AI and machine learning seamlessly into your Selenium test automation process

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**TestNG Essentials** Richard Johnson,2025-05-31 TestNG Essentials TestNG Essentials provides a comprehensive in depth exploration of the TestNG testing framework empowering Java quality engineers and automation architects to master the full lifecycle of test development execution and integration The book begins by situating TestNG within the historical evolution of Java testing tools contrasting it with JUnit and elucidating its robust architecture and annotation based execution model Through clear explanations and practical guidance readers gain a solid understanding of core TestNG concepts advanced annotation strategies suite design and configuration nuances essential for effective maintainable test automation Building on these foundations TestNG Essentials offers advanced coverage of data driven testing parallel and distributed execution and performance optimization Readers will learn how to leverage TestNG s powerful features for scalable pipeline integration ranging from parameterized and factory generated tests to isolation of test data in parallel environments cloud based scaling and resource contention management The text meticulously demonstrates how to weave TestNG into modern DevOps and CI CD workflows automate reporting and artifact publishing and enforce quality gates for rigorous enterprise grade testing The book culminates with expert discussion of TestNG s extension points including listeners reporters and plugins as well as real world patterns anti patterns and best practices for sustainable test development at scale Readers benefit from hands on strategies for web API and microservice automation integration with open source and enterprise tools

and maintaining compliance in regulated environments Whether building the first automated suite or refining mature cloud native pipelines TestNG Essentials is the authoritative resource for professionals seeking to unlock the full potential of TestNG for modern software delivery [Learn Selenium](#) Unmesh Gundecha, Carl Cocchiaro, 2019-07-18 Learn end to end automation testing techniques for web and mobile browsers using Selenium WebDriver AppiumDriver Java and TestNG Key Features Explore the Selenium grid architecture and build your own grid for browser and mobile devices Use ExtentReports for processing results and SauceLabs for cloud based test services Unlock the full potential of Selenium to test your web applications Book Description Selenium WebDriver 3 x is an open source API for testing both browser and mobile applications With the help of this book you can build a solid foundation and can easily perform end to end testing on web and mobile browsers You ll begin by being introduced to the Selenium Page Object Model for software development You ll architect your own framework with a scalable driver class Java utility classes and support for third party tools and plugins You ll design and build a Selenium grid from scratch to enable the framework to scale and support different browsers mobile devices and platforms You ll strategize and handle a rich web UI using the advanced WebDriver API and learn techniques to handle real time challenges in WebDriver You ll perform different types of testing such as cross browser testing load testing and mobile testing Finally you will also be introduced to data driven testing using TestNG to create your own automation framework By the end of this Learning Path you ll be able to design your own automation testing framework and perform data driven testing with Selenium WebDriver This Learning Path includes content from the following Packt products Selenium WebDriver 3 Practical Guide Second Edition by Unmesh Gundecha Selenium Framework Design in Data Driven Testing by Carl Cocchiaro What you will learn Use different mobile and desktop browser platforms with Selenium 3 Use the Actions API for performing various keyboard and mouse actions Design the Selenium Driver Class for local remote and third party grid support Build page object classes with the Selenium Page Object Model Develop data driven test classes using the TestNG framework Encapsulate data using the JSON protocol Build a Selenium Grid for Remote WebDriver testing Build and use utility classes in synchronization file I O reporting and test listener classes Who this book is for This Learning Path is ideal for software quality assurance testing professionals software project managers or software developers interested in using Selenium for testing their applications Professionals responsible for designing and building enterprise based testing frameworks will also find this Learning Path useful Prior programming experience in Java are TestNG is necessary

[Selenium Framework Design in Keyword-Driven Testing](#) Pinakin Ashok Chaubal, 2020-04-13 An easy to understand guide that will get you acquainted with the core concepts of Selenium WebDriver KEY FEATURES Learn how to build a Keyword Driven Automation Framework with Selenium using Java Understand and work with the core concepts of Selenium WebDriver 3 0 Find how to use Build triggers in Jenkins to automate tests DESCRIPTION The book starts by introducing the Selenium WebDriver 3 and Selenium Server by covering each aspect of it in detail You will learn different concepts like

instances and how instances relate to browser sessions You will further explore the new features in Java 8 with the help of easy to follow examples Moving on you will create a Singleton class for fetching WebDriver instances and then explore the different kinds of waits in Selenium You will then delve into the advanced WebDriver interactions using the Actions class and the JavascriptExecutor You will then understand the various database operations which will help you with using the MySQL database to store our framework Next you will go through the TestNG framework followed by parallel execution Further you will use Maven as a build tool and Jenkins as a build automation tool You will go through the working of Selenium Grid along with Mobile automation Lastly you will be taken through Selenium 4 and its AI integrated features

**WHAT WILL YOU LEARN**

Learn the process of building a Selenium Framework Understand the Keyword Driven Framework concept Work with Document Object Model to access page elements Integrate Maven and Jenkins with Selenium WebDriver Use Selenium Grid to run multiple tests across

**WHO THIS BOOK IS FOR** This book has been designed for Automation developers who would like to build a Keyword Driven framework that fetches keywords from Database It is also intended for audiences who are interested in understanding Selenium and designing a framework

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**Focus on QA** Sai Chand Boyapati, This book provides a comprehensive guide to modern software testing through the lens of AI Explore practical applications ethical considerations and functional and security testing strategies Authored by an industry expert this book shares real world experiences in launching large scale products with quality assurance at the forefront Whether you are a QA professional developer or tech enthusiast this book is valuable for mastering AI driven software testing and security processes

*Mastering Mobile Test Automation* Feroz Pearl Louis, Gaurav Gupta, 2015-05-11 If you want a complete understanding of mobile automation testing and its practical implementation then this book is for you Familiarity with the basics of VB Script and Java along with knowledge of basic testing concepts is essential

*Selenium Webdriver* Narayanan Palani, 2016-11-12 To learn about software testing job opportunities and practice with sample scripts on how to automate software applications using Selenium Webdriver TestNG JUnit Cucumber BDD within Eclipse based Java Projects and build an extensive Data Driven Automation Framework that consists of Screenshot capability Log4J Integration XSLT Reporting Parameterisation Object Repositories Excel Sheets based Data Input Outputs Cross Browser Tests using Firefox Chrome and Internet Explorer this book is an unmatched one You can also enhance tests with Page Object Model Reuse Selenium IDE scripts to Load Testing using JMeter

**Introduction to Android (operating system)** Gilad James, PhD, Android is an open source operating system that has been developed by Google It is the most popular platform for smartphones and tablets accounting

for almost 85% of the market share The operating system is based on Linux and includes a user friendly interface that can be customized according to the user s preference Android has become popular because of its accessibility customizability and flexibility It comes equipped with a range of features including Google Assistant Google Play Store Google Maps and more The Android operating system is designed to run on a variety of devices including smartphones tablets and even smart TVs It allows users to download and install thousands of applications from the Google Play Store Google also provides regular updates to ensure the operating system is secure and includes new features Android s key features include multi tasking notifications widgets and an AI powered personal assistant in Google Assistant With Android being an open source platform developers can build customized versions for different types of devices and create applications that work seamlessly with the operating system

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## **Selenium Testng Hybrid Framework Introduction**

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