

Flvs world history pre test answers Academic PDF

flvs world history pre test answers have become a topic of interest among students enrolled in Florida Virtual School's (FLVS) world history course. As students prepare for their assessments, many seek reliable resources and strategies to excel in their pre-tests, which serve as crucial indicators of their understanding and readiness for more complex topics. This article provides comprehensive insights into FLVS world history pre test answers, offering tips, study guides, and key concepts to help students succeed in their virtual learning journey.

Understanding FLVS World History Pre Test

What Is the FLVS World History Pre Test?

The FLVS world history pre test is an initial assessment designed to evaluate a student's existing knowledge of world history topics before starting the course modules. It helps both students and instructors identify areas of strength and weakness, allowing for tailored learning experiences. The pre test covers a broad range of historical periods, events, and themes, serving as a foundation for the course.

Why Is It Important?

- Assessment of Prior Knowledge: Helps students gauge their starting point.
- Customized Learning Path: Allows instructors to focus on topics that need improvement.
- Preparation for Final Exams: Builds a strong foundation for subsequent assessments.
- Self-Assessment: Empowers students to identify areas requiring additional study.

Key Strategies for Preparing for the FLVS World History Pre Test

1. Review the Course Syllabus and Learning Objectives

Understanding the scope of the course and the key objectives can guide your study efforts. Familiarize yourself with the major themes, such as:

- Ancient civilizations
- Middle Ages and Renaissance

- Exploration and colonization
- Industrial Revolution
- Modern history

2. Use Official FLVS Resources

- Curriculum Modules: Review all modules provided in the course.
- Practice Quizzes: Take advantage of practice quizzes to familiarize yourself with question formats.
- Study Guides: Use any available study guides or review sheets provided.

3. Focus on Major Historical Events and Concepts

Create a list of essential topics, including:

- The rise and fall of empires (Roman, Ottoman, Ming Dynasty)
- Key revolutions (American, French, Industrial)
- Significant treaties and treaties? impacts
- Cultural and technological advancements
- Major world religions and philosophies

4. Develop Effective Study Habits

- Take notes while reviewing materials.
- Use flashcards for memorizing dates, names, and concepts.
- Form study groups with classmates if possible.
- Schedule regular study sessions leading up to the pre test.

Common Topics Covered in FLVS World History Pre Test and Their Answers

Ancient Civilizations

- Key Civilizations: Mesopotamia, Egypt, Indus Valley, China
- Major Contributions: Writing systems, legal codes (Code of Hammurabi), architecture
- Important Figures: Pharaohs, Sumerian kings

Middle Ages and Renaissance

- Feudal System: Lords, vassals, serfs
- Key Events: The Crusades, Black Death
- Cultural Achievements: Gothic architecture, humanism in the Renaissance

Exploration and Colonization

- Motivations: Gold, glory, God
- Famous Explorers: Columbus, Vasco da Gama, Magellan
- Consequences: Columbian exchange, colonization impacts

Industrial Revolution

- Innovations: Steam engine, spinning jenny
- Effects: Urbanization, labor movements
- Key Figures: James Watt, Karl Marx

Modern World History

- World Wars: Causes and effects
- Cold War Dynamics: Capitalism vs. communism
- Globalization: Technological advances, economic interdependence

Where to Find Reliable FLVS World History Pre Test Answers

Important Tips for Finding Accurate Answers

- Avoid Unverified Sources: Rely on official FLVS resources or trusted educational platforms.
- Use Flashcards and Study Apps: Platforms like Quizlet may have student-created sets aligned with FLVS topics.
- Join Online Study Groups: Collaborate with peers for mutual support and shared knowledge.
- Consult Teachers and Tutors: Reach out for clarification on difficult topics.

Why Not to Rely Solely on Pre-Written Answers

While it might be tempting to look for pre-made answers, relying solely on them can hinder genuine understanding and long-term retention. Use answers as a study aid rather than a shortcut to ensure you grasp the material thoroughly.

Tips for Achieving Success Beyond the Pre Test

1. Engage Actively with Course Material

- Take thorough notes during lessons.
- Participate in discussion boards and assignments.
- Complete all practice activities.

2. Practice Time Management

- Set aside dedicated study times.
- Break down topics into manageable sections.
- Avoid last-minute cramming.

3. Use Supplementary Resources

- Educational videos (Khan Academy, CrashCourse)
- Documentaries and history podcasts
- Educational websites with interactive timelines

4. Prepare for the Final Exam

- Review pre-test questions and answers.
- Take full-length practice exams.
- Clarify any misconceptions with teachers.

Conclusion: Succeeding in FLVS World History with the Right Approach

Achieving success in FLVS world history pre tests involves strategic preparation, active engagement with the course material, and honest self-assessment. While some students may seek out pre test answers to gain an edge, the most effective way to excel is through comprehensive understanding and consistent study habits. Use the resources provided by FLVS, supplement your learning with

reputable external materials, and stay motivated throughout your educational journey. Remember, the goal is not just to pass the pre test but to develop a meaningful understanding of world history that will serve you well in future assessments and beyond.

By following these guidelines and understanding the key topics outlined, students can confidently approach their FLVS world history pre tests and set themselves up for academic success. Whether you're just starting or reviewing for your assessment, stay dedicated, utilize available resources wisely, and focus on truly learning the material.

FLVS World History Pre Test Answers have become a topic of interest among students seeking to efficiently prepare for their assessments in Florida Virtual School's world history courses. As online education continues to grow, so does the reliance on resources that promise quick and accurate results. This article explores the nuances of using pre-test answers for FLVS world history, weighing the benefits and drawbacks, and providing an in-depth understanding to help students navigate their studies effectively.

Understanding FLVS and the Role of Pre Tests

Florida Virtual School (FLVS) offers a comprehensive world history course designed to equip students with knowledge about ancient civilizations, historical movements, cultural developments, and significant global events. Pre tests in this context serve as diagnostic tools, helping both students and teachers assess prior knowledge and identify areas requiring further study.

Pre test answers are often sought after by students aiming to streamline their learning process or to gain a sense of familiarity with exam content. However, it's crucial to understand the purpose and proper use of these answers within the broader educational framework.

Pros and Cons of Using Pre Test Answers for FLVS World History

Pros:

- **Time Efficiency:** Accessing pre test answers can save time, allowing students to focus more on review and understanding rather than initial testing.
- **Familiarity with Content:** Reviewing answers beforehand can help students identify key topics and concepts that are likely to appear on actual assessments.
- **Confidence Building:** For some students, pre-test exposure reduces anxiety, providing a sense of preparedness.
- **Study Guidance:** Correct answers can serve as a roadmap for what to focus on during subsequent study sessions.

Cons:

- Academic Integrity Risks: Relying on pre test answers can border on cheating, which jeopardizes a student's integrity and academic standing.
- Superficial Learning: Memorizing answers without understanding underlying concepts diminishes true comprehension and long-term retention.
- Potential for Misleading Information: Unverified or incorrect answer keys can misguide students, leading to gaps in knowledge.
- Reduced Critical Thinking: Bypassing the learning process hampers development of critical analysis skills essential for higher education.

Features of Legitimate and Useful Resources

Students seeking to maximize their learning should focus on credible resources that enhance understanding rather than shortcuts that undermine educational growth.

Features to look for:

- Official FLVS Materials: Using resources provided directly by FLVS ensures accuracy and alignment with the curriculum.
- Comprehensive Review Guides: Materials that explain explanations behind answers foster deeper understanding.
- Interactive Practice Tests: Simulations that adapt to student responses can improve retention and exam readiness.
- Study Groups and Forums: Collaborative learning environments promote discussion and clarification of complex topics.

Effective Strategies for Studying World History on FLVS

Rather than solely relying on pre test answers, students should adopt strategies that promote active learning:

1. Understand the Curriculum

Familiarize yourself with the course syllabus, key topics, and learning objectives. Knowing what to expect allows for targeted study.

2. Use Official Resources

Leverage FLVS-provided textbooks, lesson plans, and practice quizzes to ensure accuracy and relevance.

3. Create a Study Schedule

Consistent study routines help reinforce material and prevent last-minute cramming.

4. Engage in Active Recall

Test yourself on key concepts without looking at answers to strengthen memory retention.

5. Seek Clarification

Participate in discussion forums or contact instructors for clarification on challenging topics.

6. Utilize Supplementary Materials

Incorporate documentaries, historical podcasts, and reputable websites to diversify learning sources.

Legal and Ethical Considerations

Using pre test answers obtained from unofficial or unauthorized sources raises significant ethical concerns. Engaging with such materials can:

- Violate academic integrity policies.
- Result in disciplinary actions from FLVS.
- Undermine the value of genuine learning and personal achievement.

Students are encouraged to pursue honest study methods, viewing assessments as opportunities to genuinely demonstrate their understanding.

Alternatives to Pre Test Answers: Building Authentic Knowledge

To truly excel in FLVS world history, students should focus on building foundational knowledge and critical thinking skills:

- Active Note-Taking: During lessons, jot down important facts, dates, and concepts.
- Mind Mapping: Visualize connections between historical events and themes.

- Practice Essays: Write short essays or summaries to synthesize information.
- Flashcards: Use flashcards for memorization of key terms, dates, and figures.
- Mock Quizzes: Take practice tests under timed conditions to simulate exam scenarios.

Conclusion: Balancing Efficiency and Integrity

While the allure of FLVS world history pre test answers lies in the promise of quick success, students must weigh the importance of genuine understanding against shortcuts. Achieving success in world history requires curiosity, effort, and integrity. Using official resources and engaging actively with the material will not only prepare students for their assessments but also cultivate a deeper appreciation for the rich tapestry of global history.

In the end, the goal should be to learn, understand, and appreciate the complexities of history, not just to pass a test. By adopting effective study strategies and maintaining honesty, students can enjoy meaningful educational experiences that lay a solid foundation for future academic pursuits and personal growth.

Question What are some effective strategies to find FLVS World History pre-test answers? It's best to review course materials thoroughly, utilize official practice quizzes, participate in study groups, and seek guidance from instructors rather than trying to find direct pre-test answers to ensure genuine understanding. Are there legitimate resources to help with FLVS World History pre-test preparation? Yes, FLVS offers practice assessments, review modules, and supplemental resources that can help students prepare effectively without seeking direct pre-test answers. Can using pre-test answers impact my learning experience in FLVS World History? Yes, relying solely on pre-test answers can hinder your understanding and retention of the material, which may affect your performance in subsequent assessments and overall learning. Is it possible to pass the FLVS World History pre-test without studying? While some students may pass with minimal study, it's generally recommended to review the course content to ensure a solid understanding and better performance in the class. What are the consequences of using unauthorized pre-test answer sources in FLVS? Using unauthorized sources can lead to academic dishonesty charges, potential disciplinary actions, and an incomplete understanding of the material, ultimately harming your educational progress. How can I improve my chances of passing the FLVS World History pre-test honestly? Focus on reviewing key concepts, taking practice quizzes, and engaging with the course content actively to build confidence and knowledge needed for the pre-test. Are there online communities or forums where students share FLVS World History pre-test tips? While some forums discuss general study tips, sharing specific pre-test answers is discouraged. Instead, seek advice on study techniques and resource recommendations ethically. Why is it important to prepare properly for the FLVS World History pre-test instead of seeking answers? Proper preparation enhances understanding, helps develop critical thinking skills, and ensures you genuinely learn the material, which benefits your overall academic success and future learning.

Related keywords: FLVS world history, FLVS pre test answers, FLVS history quiz, FLVS world history exam, FLVS history course, FLVS pretest solutions, FLVS history review, FLVS online history test, FLVS history assessment, FLVS exam answers

microsoft test manager tutorial

Microsoft Test Manager Tutorial: A Comprehensive Guide to Efficient Test Management

In the world of software development, ensuring the quality and reliability of your applications is paramount. Microsoft Test Manager (MTM) is a powerful tool designed to streamline the testing process, enabling teams to plan, execute, and track testing efforts with ease. Whether you're a beginner or looking to enhance your testing workflows, this **Microsoft Test Manager tutorial** will provide you with a step-by-step guide to harnessing MTM's full potential for your projects.

Understanding Microsoft Test Manager

Before diving into the tutorial, it's essential to grasp what Microsoft Test Manager is and how it integrates into the broader Visual Studio ecosystem.

What is Microsoft Test Manager?

Microsoft Test Manager is a test management tool integrated with Visual Studio Team Services (VSTS) and Azure DevOps. It provides an intuitive interface for managing test plans, creating and executing test cases, and tracking testing progress. MTM supports both manual and exploratory testing, making it versatile for various testing scenarios.

Key Features of Microsoft Test Manager

- Test Planning: Create and organize test plans, test suites, and test cases.
- Test Execution: Execute manual tests and record results efficiently.
- Test Tracking: Monitor testing progress and generate detailed reports.
- Exploratory Testing: Conduct ad-hoc testing sessions with session-based testing capabilities.
- Integration: Seamlessly connects with Azure DevOps for continuous testing workflows.

Setting Up Microsoft Test Manager

Getting started with MTM involves installing and configuring the tool for your environment.

Prerequisites

- Visual Studio Enterprise or Professional edition (with test management features).
- Azure DevOps account or TFS (Team Foundation Server) setup.
- Appropriate permissions to access test management features.

Installing Microsoft Test Manager

- Download the Visual Studio Installer from the official Microsoft website.
- Choose the edition that includes testing tools (e.g., Visual Studio Enterprise).
- During installation, select the "Testing Tools" workload to install MTM.
- Complete the installation and launch Visual Studio.
- Connect to your Azure DevOps project or TFS server within Visual Studio.

Creating and Managing Test Plans

A well-structured test plan is the foundation of successful testing. MTM simplifies organizing your testing efforts through test plans and suites.

Creating a Test Plan

- Open Microsoft Test Manager from Visual Studio or the Azure DevOps portal.
- Navigate to the "Test Plans" section.
- Click "New Test Plan" and provide a descriptive name, description, and start/end dates.
- Associate the test plan with a specific build or release if needed.
- Save the test plan to begin adding test cases.

Organizing Test Suites

Test suites help categorize test cases based on features, modules, or testing strategies.

- **Static Test Suites:** Manually organize test cases into logical groups.
- **Requirement-Based Test Suites:** Link test cases to specific requirements or user stories.
- **Query-Based Test Suites:** Dynamically generate test cases based on queries.

Adding Test Cases

- Within your test suite, click "New Test Case" or import existing cases.
- Define the test case steps, expected results, and associated requirements.
- Assign priority, owner, and other metadata to facilitate management.
- Save the test case to include it in your suite.

Executing Tests with Microsoft Test Manager

Once your test cases are organized, the next step is executing tests and recording results.

Manual Test Execution

- Open the test plan and select the test suite to execute.
- Click "Run" on the test case you wish to execute.
- Follow the test steps as documented, marking each step as "Passed" or "Failed."
- If a test fails, record detailed bug information directly from the test runner.
- Complete the test run, and the results will be saved automatically.

Using Action Recording and Data Collection

MTM allows capturing detailed logs and screenshots during test execution, aiding in defect analysis and reproducibility.

Exploratory Testing

For ad-hoc testing, MTM offers session-based testing:

- Schedule a testing session with session details.
- Conduct testing while documenting observations and findings.
- Record bugs and issues discovered during the session.

Tracking and Reporting Testing Progress

Effective test management requires insight into testing status and quality metrics.

Monitoring Test Results

- Navigate to the "Test Results" section in MTM or Azure DevOps.
- Review individual test case outcomes and overall progress.

- Filter results by tester, status, or test plan for detailed analysis.

Generating Reports

MTM provides various built-in reports to visualize testing status:

- Test Results Summary
- Test Case Progress and Trends
- Bugs and Defects Reports

Integrating with Bug Tracking

During testing, bugs can be logged directly from MTM, linked to specific failed test cases, ensuring traceability and quick resolution.

Advanced Tips and Best Practices

Maximize your testing efficiency with these expert tips:

Automate Repetitive Tests

Integrate MTM with automated testing frameworks like MSTest, NUnit, or Selenium to run automated tests alongside manual efforts.

Maintain Test Cases Regularly

Keep your test cases updated with application changes to ensure relevance and accuracy.

Use Tags and Filters

Leverage tags and filters to quickly locate and execute specific test cases based on criteria like priority, feature, or owner.

Collaborate Effectively

Encourage team collaboration by sharing test plans and results, and conducting regular review meetings to discuss testing progress.

Conclusion

Microsoft Test Manager is an essential tool for teams aiming to implement structured and efficient testing workflows. From creating comprehensive test plans and organizing test suites to executing tests and tracking outcomes, MTM provides a centralized platform that enhances test visibility and quality assurance. By following this **Microsoft Test Manager tutorial**, you can streamline your testing process, improve defect detection, and deliver higher-quality software products. Remember to stay updated with the latest features and best practices to maximize your testing success with MTM.

Microsoft Test Manager tutorial: A Comprehensive Guide to Streamlining Your Testing Process

Microsoft Test Manager (MTM) is a powerful tool integrated within the Azure DevOps suite, designed to facilitate efficient test planning, management, and execution. Whether you are a QA professional, a developer, or a project manager, mastering MTM can significantly enhance your testing workflows, improve defect detection rates, and ensure higher quality software releases. This tutorial aims to provide an in-depth overview of Microsoft Test Manager, guiding you through its features, setup, best practices, and real-world applications.

Introduction to Microsoft Test Manager

Microsoft Test Manager is a dedicated testing management environment that helps teams plan, execute, and track testing activities seamlessly. Originally part of Visual Studio Test Professional, MTM is now integrated within Azure DevOps, offering a unified platform for Agile testing, exploratory testing, and manual test case management.

Key Features of Microsoft Test Manager

- Test Planning: Create and organize test plans, test suites, and test cases.
- Test Execution: Run manual tests, record results, and capture screenshots.
- Test Management: Track defects, manage test configurations, and generate reports.
- Integration: Seamlessly connect with Azure DevOps for continuous integration and automated testing workflows.
- Exploratory Testing: Record exploratory sessions with detailed notes and recordings.

Setting Up Microsoft Test Manager

Before diving into testing, proper setup of MTM is essential.

Prerequisites

- A valid Azure DevOps account with appropriate permissions.
- Installed Visual Studio Test Professional or access via Azure DevOps.
- Access to a test environment or lab machines.

Installation and Configuration

- Download and Install: Download Microsoft Test Manager from the Visual Studio downloads page or via Azure DevOps.
- Connect to Azure DevOps: Launch MTM and connect it to your Azure DevOps project by signing in with your credentials.
- Configure Test Environments: Set up test machines, configurations, and network environments to align with your testing needs.

Tips for Effective Setup

- Organize your test plans hierarchically for easier management.
- Maintain a clear mapping between test environments and real-world configurations.
- Regularly update test artifacts to ensure they reflect current application versions.

Creating and Managing Test Plans

Test planning is the foundation of effective testing.

Creating a Test Plan

- In MTM, navigate to the "Test Plans" section.
- Click "New Test Plan" and provide a descriptive name, start/end dates, and any relevant details.
- Assign ownership and stakeholders.

Organizing Test Suites

- Static Test Suites: Manually added test cases grouped logically.
- Requirement-based Suites: Linked to user stories or requirements for traceability.
- Query-based Suites: Dynamic grouping based on queries.

Best Practices

- Break down large test plans into smaller, manageable suites.
- Link test cases to user stories or bugs for better traceability.
- Regularly review and update test plans to reflect current project scope.

Designing and Managing Test Cases

Creating effective test cases is critical to uncovering defects early.

Writing Test Cases

- Clear, concise steps with expected results.
- Use descriptive titles and tags for easy filtering.
- Include preconditions and postconditions.

Reusing Test Cases

- Modularize test steps for reuse across different test cases.
- Attach relevant documentation, screenshots, or scripts.

Organizing Test Cases

- Group related test cases into shared test suites.
- Use labels and tags for categorization.

Tips for Effective Test Cases

- Prioritize test cases based on risk and impact.
- Keep test cases up-to-date with application changes.
- Incorporate exploratory testing notes within test cases or as separate sessions.

Test Execution and Result Recording

Executing tests efficiently and accurately recording results is vital.

Running Manual Tests

- Select a test case from your test suite.
- Follow each step, observing the actual behavior.
- Record outcomes: Passed, Failed, Blocked, or Not Applicable.
- Capture screenshots or record videos if needed.

Recording Defects

- Link defects directly to failed test cases.
- Provide detailed descriptions, steps to reproduce, and severity.
- Attach logs or screenshots to aid debugging.

Managing Test Runs

- Use test configurations to run multiple test cases under different environments.
- Schedule and assign test runs to team members.
- Monitor real-time progress and results.

Pros and Cons of Test Execution Features

Pros:

- Streamlined process for manual testing.
- Rich media capture for detailed documentation.
- Easy defect linkage and traceability.

Cons:

- Manual process can be time-consuming for large test suites.
- Limited automation capabilities within MTM itself.

Integrating Automated Testing with Microsoft Test Manager

While MTM excels at manual testing, integration with automated testing frameworks enhances overall efficiency.

Integration with Visual Studio Test Automation

- Use Visual Studio Test tools to develop automated test scripts.
- Link automated tests to test cases in MTM.
- Run automated tests as part of continuous integration pipelines.

Benefits of Integration

- Reduces manual effort.
- Ensures consistency between manual and automated testing.
- Facilitates comprehensive test coverage.

Limitations

- Setup can be complex for beginners.
- Requires scripting knowledge for automation.

Reporting and Tracking

Effective reporting provides insights into testing progress and quality metrics.

Built-in Reports

- Test Run Summary
- Test Results Trend
- Defect Status and Age
- Requirements Traceability Matrix

Custom Reports

- Use Azure DevOps Analytics or Power BI for tailored dashboards.
- Export data for external analysis.

Best Practices

- Regularly review reports to identify bottlenecks.
- Use metrics to prioritize testing efforts.
- Maintain up-to-date dashboards for stakeholder visibility.

Best Practices for Using Microsoft Test Manager

- Plan Early: Incorporate testing early in the development lifecycle.
- Maintain Test Artifacts: Keep test cases and plans updated with application changes.
- Leverage Linkages: Connect requirements, test cases, defects, and build versions.
- Automate Where Possible: Use automation to handle repetitive and regression testing.
- Collaborate: Engage team members through shared test plans and results.
- Review Regularly: Conduct test reviews and retrospectives for continuous improvement.

Common Challenges and How to Overcome Them

Challenge: Managing Large Test Suites

Solution: Break down into smaller, manageable suites; use query-based suites for dynamic grouping.

Challenge: Keeping Test Cases Up-to-date

Solution: Establish a review cycle aligned with development sprints; assign ownership.

Challenge: Integration Complexity

Solution: Invest in automation and continuous integration pipelines; use documentation and training.

Challenge: Limited Automation within MTM

Solution: Use external automation tools integrated with Azure DevOps, such as Selenium or Coded UI.

Conclusion

Microsoft Test Manager is a robust tool that, when used effectively, can significantly boost your testing efficiency, coverage, and traceability. Its comprehensive features for test planning, execution, defect management, and reporting make it indispensable for teams adopting Agile and DevOps practices. While there are challenges, especially around automation and managing large test repositories, with proper setup, training, and best practices, MTM can become a cornerstone of your software quality assurance process.

By following this tutorial, you should now have a clear understanding of how to leverage Microsoft Test Manager to streamline your testing operations, improve collaboration, and ultimately deliver

higher quality software to your users. Remember, continuous learning and adaptation are key to maximizing the benefits of MTM in your projects.

Question Answer What are the main features of Microsoft Test Manager (MTM)? Microsoft Test Manager (MTM) provides features such as test planning, manual test execution, test case management, bug tracking integration, and collaboration tools to streamline the testing process within Visual Studio and Azure DevOps. How do I create and organize test plans in Microsoft Test Manager? In MTM, you can create test plans by navigating to the 'Test Plans' hub, clicking 'New Test Plan,' and defining its name and details. You can then add test suites and test cases to organize tests based on requirements, features, or test types for better management. Can I automate tests using Microsoft Test Manager, and how is it integrated with other tools? While MTM primarily supports manual testing, it integrates seamlessly with Visual Studio and Azure DevOps, enabling automation through test scripts and frameworks like MSTest, Selenium, or CodedUI. Automated tests can be linked to test cases for comprehensive test management. What are the best practices for using Microsoft Test Manager effectively? Best practices include maintaining detailed and reusable test cases, organizing tests into logical suites, utilizing shared steps for common actions, integrating with bug tracking, and regularly updating test plans based on project changes to ensure thorough testing coverage. Is Microsoft Test Manager suitable for Agile development environments? Yes, MTM is well-suited for Agile teams as it supports iterative testing, easy integration with Azure DevOps Agile tools, and flexible test planning, allowing teams to adapt testing activities to sprint cycles and continuous delivery workflows.

Related keywords: Microsoft Test Manager, TFS testing, test planning, test case management, automated testing, test execution, bug tracking, test lab management, test reporting, test automation tools

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