

# Ais Test Bank Full Version

**ais test bank** is a valuable resource for students, educators, and professionals seeking to enhance their understanding of various academic subjects. An AIS (Accounting Information Systems) test bank provides a comprehensive collection of questions, answer keys, and practice exams that align with course curricula. Utilizing an AIS test bank can streamline the study process, improve test preparation, and boost overall academic performance. This article explores the importance of an AIS test bank, how to effectively utilize it, and the benefits it offers to users aiming for mastery in accounting information systems.

## Understanding the Importance of an AIS Test Bank

### What is an AIS Test Bank?

An AIS test bank is a curated set of exam questions, multiple-choice items, true/false questions, and essay prompts specifically aligned with accounting information systems courses. These test banks are often created by subject matter experts and educators to reflect the latest curriculum standards and industry practices.

### Why Use an AIS Test Bank?

- **Enhanced Exam Preparation:** Practice questions help students familiarize themselves with the types of questions they will encounter on actual exams.
- **Time Management:** Regular practice with test bank questions improves speed and accuracy, making timed exams less stressful.
- **Identify Knowledge Gaps:** Practice tests reveal areas where a student may need further study, allowing for targeted review.
- **Supplemental Learning:** Test banks serve as an excellent supplement to textbooks and lectures, providing practical application scenarios.
- **Instructor Resource:** Educators can utilize test banks to craft quizzes, assessments, and practice exams, saving preparation time.

## How to Effectively Use an AIS Test Bank

### Integrate Test Bank Practice into Your Study Routine

To maximize the benefits of an AIS test bank, it's essential to incorporate practice questions regularly into your study schedule. Set aside dedicated time to work through questions, simulating

exam conditions when possible.

## **Focus on Understanding, Not Just Memorization**

While practicing questions, aim to understand the reasoning behind each answer. Review explanations and references provided to deepen your grasp of key concepts such as internal controls, data flow diagrams, and ERP systems.

## **Use a Variety of Question Types**

An effective AIS test bank includes multiple-choice questions, true/false statements, matching items, and essay prompts. Exposure to different question formats helps prepare for the diverse types of questions encountered in actual exams.

## **Track Your Progress and Review Mistakes**

Keep a record of questions you answered incorrectly or found challenging. Revisit these questions periodically, review related course materials, and clarify misunderstandings to reinforce learning.

## **Customize Your Practice Sessions**

Many digital test banks allow users to select specific chapters or topics. Focus on areas such as transaction processing, internal controls, AIS systems design, or auditing procedures based on your course syllabus.

## **Benefits of Using an AIS Test Bank**

### **Improved Academic Performance**

Consistent practice with test bank questions helps reinforce core concepts, leading to higher scores on quizzes and exams. Familiarity with question styles also reduces test anxiety.

### **Preparation for Professional Certifications**

Many accounting and auditing certifications, such as CPA or CMA, include sections on accounting information systems. Test banks aligned with these areas serve as excellent preparatory tools.

### **Cost-Effective and Time-Saving**

Purchasing or accessing a quality AIS test bank can be more affordable than multiple textbooks or tutoring sessions. It also offers quick access to a wide variety of practice questions, saving time

during study sessions.

## Supports Self-Directed Learning

Students can use test banks to learn independently, track their progress, and build confidence without constant supervision.

## Where to Find a Reliable AIS Test Bank

### Official Educational Publishers

Many university publishers and educational platforms offer official test banks that accompany textbooks, ensuring alignment with course content.

### Online Educational Platforms

Websites like Quizlet, Chegg, and instructor-created repositories often feature AIS test questions. Verify the credibility and accuracy of these sources before use.

### Academic Institutions and Libraries

Some colleges and universities provide access to test banks through their learning management systems or library resources.

### Custom-Generated Test Banks

Educators and students can create their own test banks tailored to specific course topics, ensuring relevance and focus.

## Legal and Ethical Considerations

While utilizing AIS test banks, it's important to adhere to copyright laws and academic integrity policies. Use authorized or officially provided test banks to avoid potential violations. Remember that test banks should supplement learning, not replace comprehensive study and understanding.

## Conclusion

An **AIS test bank** is an indispensable tool for mastering accounting information systems. It offers a structured approach to exam preparation, helps identify knowledge gaps, and reinforces learning through practice. Whether you are a student aiming for academic excellence or an instructor seeking effective assessment tools, leveraging a reliable test bank can significantly enhance your

educational journey. Remember to use test banks ethically, integrate them thoughtfully into your study routine, and focus on understanding the material deeply to achieve the best results. With consistent effort and strategic use of resources like AIS test banks, success in accounting information systems courses and professional certifications is well within reach.

## **AIIS Test Bank: A Comprehensive Analysis of Its Role, Benefits, and Challenges in Modern Education**

In the rapidly evolving landscape of education technology, the term AIIS Test Bank has garnered increasing attention among educators, students, and educational institutions. As digital assessment tools become more sophisticated, understanding what an AIIS Test Bank entails, how it functions, and its implications for academic integrity and learning outcomes is essential. This article delves into the intricacies of AIIS Test Banks, exploring their structure, advantages, ethical considerations, and future prospects.

### Understanding the AIIS Test Bank

#### What Is an AIIS Test Bank?

An AIIS Test Bank refers to a centralized repository of exam questions, quizzes, and assessment items that are generated, curated, or managed through Artificial Intelligence (AI) and Information Systems (IS). The term combines the core components: AI (Artificial Intelligence) and IS (Information Systems), emphasizing that these test banks leverage advanced technology to support educational assessments.

Historically, test banks have been physical collections of multiple-choice questions, essay prompts, and problem sets created by educators or publishers. However, the integration of AI has revolutionized this concept by enabling dynamic generation, personalized assessments, and real-time updates.

#### Key Components of an AIIS Test Bank

- Question Repository: A vast collection of questions across various subjects and difficulty levels.
- AI Algorithms: Machine learning models that generate, classify, and analyze questions based on curriculum standards and learning objectives.
- Metadata and Tagging: Information such as difficulty level, topic, Bloom's taxonomy level, and learning outcomes.
- Assessment Management System: Software that facilitates test creation, administration, and analysis using AI insights.

## How Does AI Enhance Test Banks?

AI-powered test banks are distinguished by their ability to:

- Generate New Questions: Using natural language processing and machine learning, AI can create original questions aligned with specific topics.
- Personalize Assessments: Tailoring questions based on individual student performance and learning pace.
- Ensure Content Validity and Diversity: Minimizing bias and covering broad curriculum areas.
- Automate Grading and Feedback: Providing immediate results and insights to learners and educators.

## The Role of AIIS Test Banks in Education

### Streamlining Assessment Creation

One of the primary advantages of AIIS test banks is their capacity to streamline the assessment development process. Educators often face time constraints and resource limitations; AI tools mitigate these challenges by:

- Rapidly generating large pools of questions.
- Ensuring questions are aligned with learning objectives.
- Reducing manual effort in question selection and validation.

### Enhancing Personalized Learning

AI-enabled test banks facilitate personalized assessments by adjusting question difficulty and topics based on individual learner profiles. This approach supports differentiated instruction, catering to students with diverse backgrounds and learning paces.

### Data-Driven Insights and Analytics

By analyzing student responses, AI systems can identify knowledge gaps, predict performance trends, and suggest targeted interventions. Such insights empower educators to refine curricula and improve instructional strategies.

### Supporting Remote and Digital Learning

In the era of online education, AIIS test banks serve as vital tools for remote assessment delivery.

They enable secure, scalable, and flexible testing environments that maintain academic standards outside traditional classroom settings.

### Ethical Considerations and Challenges

While AIIS test banks offer numerous benefits, they also present significant challenges and ethical dilemmas that must be carefully navigated.

### Academic Integrity and Cheating Risks

The ease of access to extensive question repositories raises concerns about cheating and plagiarism. AI-generated questions, if not properly secured, could be shared or leaked, compromising assessment validity.

### Bias and Fairness

AI models are only as good as the data they are trained on. If training datasets contain biases or inaccuracies, the generated questions may inadvertently favor certain groups or reinforce stereotypes, impacting fairness.

### Quality Control and Validity

Automated question generation may lead to questions that are ambiguous, incorrect, or lack alignment with curriculum standards. Continuous quality assurance processes are essential to maintain assessment integrity.

### Privacy and Data Security

AIIS test banks often collect and analyze sensitive student data. Ensuring compliance with data protection regulations and safeguarding this information against breaches are critical concerns.

### Dependence on Technology

Overreliance on AI tools can diminish educators' role in assessment design, potentially undermining pedagogical judgment and contextual understanding.

### Future Trends and Innovations

The landscape of AIIS test banks is poised for significant advancements, influenced by ongoing technological developments.

## Adaptive Testing and Real-Time Personalization

Future test banks are expected to incorporate adaptive testing models that adjust question difficulty in real-time, providing a more accurate measure of student ability.

## Integration with Learning Management Systems (LMS)

Seamless integration with LMS platforms will allow for more unified assessment experiences, analytics, and curriculum alignment.

## Use of Natural Language Processing (NLP)

Advances in NLP will enable the creation of more nuanced and complex question types, including open-ended responses and case studies.

## Ethical AI and Bias Mitigation

Development of frameworks to detect and eliminate biases in question generation will be vital to ensure fairness and inclusivity.

## Open and Collaborative Question Banks

Collaborative platforms may emerge, allowing educators worldwide to share and improve questions, fostering a community-driven approach.

## Conclusion

The AIIS Test Bank represents a transformative development in the realm of educational assessments. By harnessing artificial intelligence and information systems, these repositories enhance efficiency, personalization, and analytical capabilities. However, their deployment must be balanced with ethical considerations, quality assurance, and safeguards to prevent misuse. As technology continues to evolve, AIIS test banks are likely to become more sophisticated, adaptive, and integral to modern education systems, ultimately supporting more effective teaching, learning, and assessment practices.

## References:

- Educational Technology Journals and Publications
- Reports on AI in Education (e.g., UNESCO, EdTech Research)
- Industry Analysis on Digital Assessment Tools

## - Ethical Frameworks for AI in Education

Note: This article aims to provide a comprehensive overview and does not endorse specific AIIS test bank products.

**Question** What is an AI test bank and how is it used in education? An AI test bank is a collection of exam questions generated or curated using artificial intelligence tools. It is used by educators to create, customize, and manage assessments efficiently, ensuring diverse and adaptive testing experiences for students. **Answer** Are AI test banks reliable for assessing student knowledge? AI test banks can be reliable when properly developed and validated. They help generate varied questions and can adapt to different difficulty levels, but it's important to review AI-generated content to ensure accuracy and fairness. What are the benefits of using an AI test bank over traditional test banks? AI test banks offer benefits such as rapid question generation, personalized assessments, continuous updates, and the ability to create a large pool of diverse questions, saving time and enhancing exam quality. How can educators ensure the quality of questions in an AI test bank? Educators can review AI-generated questions for accuracy, clarity, and relevance, incorporate human oversight in the question creation process, and regularly update the test bank based on student feedback and performance data. Are there ethical concerns related to AI test banks in education? Yes, ethical concerns include potential biases in AI-generated questions, over-reliance on automated tools, and issues around academic integrity. It's important to use AI test banks responsibly and complement them with traditional assessment methods.

**Related keywords:** AI test bank, digital exam questions, online quiz database, exam preparation resources, AI-powered assessment tools, practice test bank, AI question generator, automated test creation, e-learning assessment, computerized exam bank

## 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** 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. **Answer** 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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