

AI Tutor: Interactive Learning Experience

An Experiment with "Workplace Software and Skills" Textbook

This interactive AI Tutor is designed as a **pilot project** built entirely on the openly available textbook *Workplace Software and Skills*, published by [OpenStax](#). The textbook is freely accessible to educators, students, and learners and was chosen intentionally to demonstrate how artificial intelligence can enhance open educational resources (OER) through adaptive, interactive experiences.

Introduction

Welcome, and thank you for your interest in exploring this AI-powered interactive tutor. This project is designed as proof of concept to demonstrate how artificial intelligence can be used to enhance learning from large, content-heavy textbooks in a more engaging, adaptive, and learner-friendly way.

The AI Tutor was developed using data from the textbook *Workplace Software and Skills* and aims to present each chapter's content in a personalized and interactive manner. Learners are guided through summaries, business applications, storytelling, quizzes, and other challenge-based formats to reinforce understanding.

This prototype is hosted publicly on Google Colab and was trained using high-performance computing resources from Clemson University's Palmetto Supercomputing Cluster. It is fully adaptable and designed to be scaled across other textbooks and educational materials in various domains.

Time Required

Users can explore the full range of learning features in approximately **45 minutes to 1 hour**. Each activity is modular and can be completed independently, allowing flexibility based on the learner's pace and interests.

Your Feedback Matters

Your input will directly influence future enhancements. We would be grateful for any feedback regarding clarity, ease of use, and impact on learning. This will help improve the AI Tutor and guide how it could be applied in classrooms, training programs, and organizational learning systems.

How to Use the AI Tutor

This guide provides a step-by-step walkthrough for users.

Step 1: Launch the AI Tutor

Access the AI Tutor via this public Google Colab link:

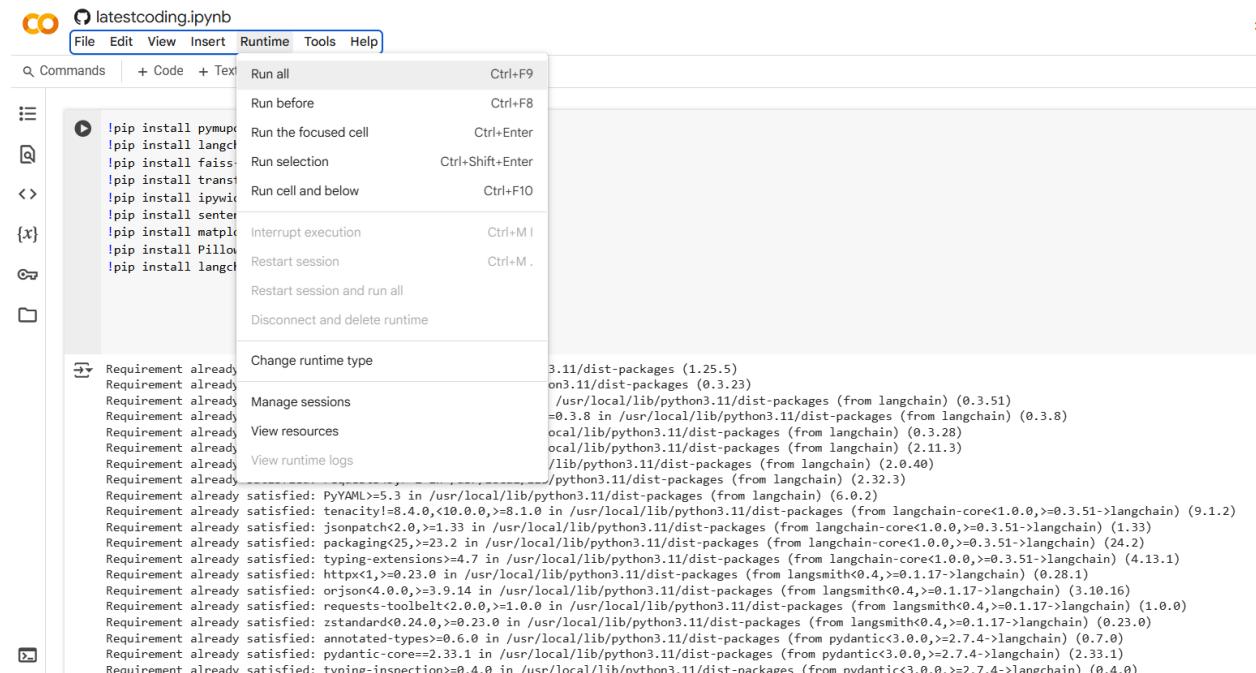
[AI Tutor Interactive Learning](#)

Once the notebook opens:

- Click "Runtime" > "Run all" or use the Run button to execute the entire notebook.
- Approve any permission requests as needed.

Heads up: The code might take around **5 to 10 minutes** to run because of its size. Please be patient while everything loads.

A screenshot of this step is provided below to guide you through launching and running the notebook.



When you launch the notebook, you'll see a **loading screen** like this:

Wait for the AI Tutor to Load

 Loading your AI Tutor...

This may take around 5 to 10 minutes — thank you for your patience! 🙏
We're working on improving load times in future versions.

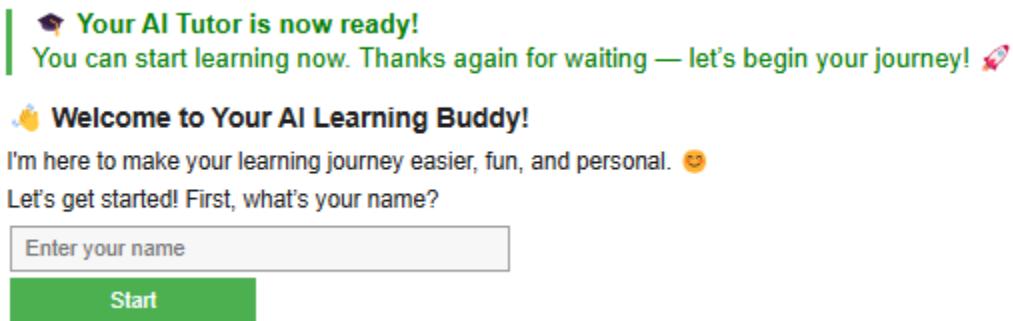
This means the system is setting up all the necessary components. Please wait until you see confirmation that says:

 Your AI Tutor is now ready!

You can start learning now.

Step 2: Enter Your Name

Once the AI is ready, you'll see the welcome screen like this:



Enter your name in the box and click **Start**.

So, for example, I have given my name, Sravani.

Immediately after entering name, you'll be asked like the screenshot below:

 Hi Sravani!

Would you like a quick walkthrough of the AI tutor features before jumping in?

Yes, show walkthrough...

No, Start AI Tutor

Would you like a quick walkthrough of the AI tutor features before jumping in?

You'll get two choices:

- **Yes, show walkthrough** – Recommended for first-time users!

This will guide you through:

- Selecting chapters, learning modes
- Different challenge modes (Flashcards, MCQs, Fill-in-the-Blanks, etc.)
- Earning points and tracking progress
- **No, Start AI Tutor** – Skip the intro and dive straight into learning.

Suggestion:

If you're new here, **click the walkthrough** option. It'll give you a quick tour, so you're not confused later.

Let's say you pressed walkthrough.

As soon as you click, see the walkthrough here, and see how the screen looks, which is explained in the next step walkthrough shown below

Step 3: Walkthrough

Understanding the AI Tutor Interface

This guided walkthrough will help you understand how the AI Tutor works before you explore it on your own. No need to make any decisions yet — just follow along and get comfortable.

What Happens When You Choose a Chapter?

To get started, we have used a **sample chapter**:

"What Is a Database?"

This lets you preview how chapters are structured.

Once selected, you'll typically see:

-  **A quick summary** introducing the topic
-  **A visual or diagram** to make the concept clearer
-  **Additional learning links** to go deeper if you're curious

Here's what it looks like in action:

👉 Your AI Tutor is now ready!

You can start learning now. Thanks again for waiting — let's begin your journey! 🎉

👋 Welcome, Sravani!

Let's begin your walkthrough! This short tour will help you understand how the AI Tutor works before you start choosing chapters on your own.

We'll use a sample chapter — **What Is a Database?** — so you don't need to make any choices now. Just follow along to get familiar. 😊

Here's what you'll typically see when a chapter is selected:

- ✅ A short summary introducing the topic
- 📸 A visual or diagram to explain it better
- 🌐 Optional links for deeper learning

Let's preview all of that now for **What Is a Database?** 👈

Quick Summary

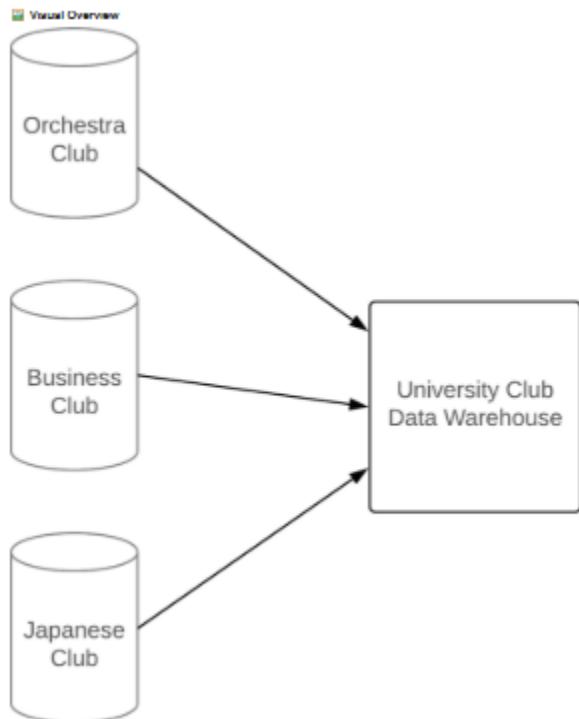
A short paragraph explains the key idea of the chapter.

✓ Quick Summary

Databases are storage areas for data, small bits of information that are collected all around us. Organizations typically have production systems, which run and store the transactions necessary for the objects, including tables, queries, forms, and reports. These objects can be used for data manipulation and for applications within a business.

Visual Overview

A diagram helps you understand the structure or concept. (e.g., *Orchestra Club storing data in a system*)



Extra Learning Resources

Optional links are provided if you want to explore more. These are useful but not required to continue.

Extra Learning Resources

Additional Learning Resources

Here are some external resources to explore more about 13.1 What Is a Database?:

- [Part 13 - Simplified Acquisition Procedures | Acquisition.GOV](#)
- [Reliable and timely tax insights with Bloomberg Tax Research ...](#)
- [Audience Is Everything®](#)
- [IDC: The premier global market intelligence firm](#)
- [13.1 The Research Process: Where to Look for Existing Sources ...](#)

What's Next?

After you see the chapter content, you'll be guided to choose how you want to learn. This happens through a dropdown menu offering:

- **Business Case** – See how the topic applies in real companies
- **Storytelling** – Learn through a relatable narrative
- **Challenges** – Practice using flashcards, quizzes, and exercises

You'll then see two buttons:

- **Next: See Learning Mode** – This continues the walkthrough and shows how one learning mode works.
- **Return** – This ends the walkthrough and lets you explore the AI Tutor independently. You can select your own chapter and dive right in.

Like the screenshot attached below.

What's Next?

After seeing the summary and visuals, you'll normally choose how you want to learn — this is done through a dropdown menu of learning modes. These include:

- **Business Case** – Learn how it's used in real companies
- **Storytelling** – Understand through a narrative
- **Challenges** – Practice with flashcards and quizzes

For now, I'll walk you through the first mode as part of this guided tour.

[Next: See Learning ...](#)

[Return](#)

Tip for new users:

Click **Next** to walk through one sample mode before trying it yourself. It helps you understand how each part is designed to support your learning.

When you press next, see walkthrough, this is what it shows

Business Case Mode – Real-World Application

Business Case: Real-world Application (Mode 1 of 3)

When you click “**Next: See Learning Mode**” in the previous step, this is the screen you'll see — just like the screenshot shown.

You're now entering the first interactive learning mode in our walkthrough: **Business Case**.

We're guiding you through this to show what happens when you begin a real chapter session.

What Happens in Business Case Mode?

Instead of theory alone, this mode shows how the concept (e.g., *What Is a Database?*) is applied in a real-world setting.

For example:

You'll see how a company like *Orchestra Club* might use a database to manage event registrations, store member details, and track payments.

This answers the big question:

“How would I actually use this in a job or project?”

It stretches your thinking beyond facts into business decisions, operations, and strategy.

Refer to the screenshot below — this is exactly what you'll see when you enter this mode

Business Case: Real-world Application (Mode 1 of 3)

Welcome! This is the first learning mode in our walkthrough — **Business Case**.

Instead of reading chapters in isolation, **Business Cases** show how concepts are applied in real companies.

It answers an important question: *“How would this knowledge be used in the real world?”*

In today's fast-paced environments, knowing facts isn't enough — you must understand how knowledge leads to decisions, outcomes, and impact.

This mode stretches your thinking and introduces strategic, analytical, and problem-solving dimensions within a business setting. 📊💡

Business Scenario:
 Delta Holdings, a leading firm in Databases & Data Management, faced significant challenges in What Is a Database?. Companies that optimize workflow automation reduce inefficiencies by 40%. However, outdated processes caused inefficient database management systems solutions to optimize its operations.

Task:
 Analyze how 13.1 What Is a Database? was used to improve business decision-making.

Problem Statement:
 Delta Holdings relied on outdated reporting methods that led to inconsistencies, delayed insights, and poor data accuracy. As a result, key stakeholders lacked the real-time data needed for critical business decisions.

Why Is This Important?
 If left unresolved, these inefficiencies would cause significant revenue losses and operational bottlenecks. Process automation solutions can save businesses up to \$2.3 million annually. To remain competitive, organizations must implement efficient database management systems.

Proposed Solution:
 To address these issues, Delta Holdings adopted modern database management systems tools, integrating AI-driven automation to improve accuracy and reduce report generation time by 50%. By leveraging real-time data visualization and machine learning, the company achieved a 3.5x return on investment (ROI) over three years.

Business Objectives:

- Improve operational efficiency in database management systems-related processes by 80%.
- Reduce manual errors in reporting by 65% through automation.
- Ensure compliance with industry standards and data security regulations.
- Enhance real-time decision-making by reducing report generation time by 50%.

Financials & Timeline:
 The company invested \$200,000 in database management systems upgrades, with a projected return of investment (ROI) of 3.5x over three years. Estimated annual cost savings exceeded \$500,000 due to efficiency improvements.

Conclusion & Next Steps:
 With the successful adoption of database management systems, Delta Holdings significantly improved its operational efficiency. Future steps include further integration of AI-powered analytics to enhance forecasting accuracy.

Additional Resources:

Additional Learning Resources:
 Here are some external resources to explore more about 13.1 What Is a Database?:

- Part 13 – Simplified Acquisition Procedures | Acquisition Q&A
- Reliable and timely tax insights with Bloomberg Tax Research
- Audience is Everything®
- IDC: The premier global market intelligence firm
- 13.1 The Research Process: Where to Look for Existing Sources.....

What's Next?

Once you've explored the Business Case, you'll see this prompt:

"What's Next?"

You'll move on to the second mode in the walkthrough — **Storytelling**.

You'll now see three buttons:

- Previous** – Go back to the summary and visuals
- Next: See Walkthrough (Storytelling)** – Continue to the next mode
- Return** – Exit the walkthrough and explore freely on your own

I have attached screenshot to show how it looks like

What's Next?

You've just seen how Business Case mode works.

Next, we'll explore Storytelling — a learning mode where you follow a character using the concept in their job.

👉 Or if you're ready, you can return now and choose a learning mode yourself from the main screen.

← Previous

Next: See Storytelling

BACK Return

Suggestion for First-time users:

We recommend sitting back and clicking **Next** to continue. You're in walkthrough mode, so you don't need to make any choices. You'll get a clear view of each feature before using the real interface.

Storytelling – Learn Through a Character (Mode 2 of 3)

This is the **second learning mode** in the guided walkthrough — **Storytelling**.

When you press **Next** after completing the Business Case walkthrough, the AI Tutor loads this screen to show how Storytelling mode works.

It presents a scenario-based approach where a character applies the concept in a realistic work environment.

Storytelling: Learn Through a Character (Mode 2 of 3)

This is the second learning mode in the walkthrough — Storytelling.

Instead of reading plain facts, this mode places you in a real-life scenario where someone applies the concept you're learning — like a teammate solving a business problem or making a key decision. 

If you prefer examples and context over definitions, this mode helps bring the idea to life in ways that are practical and relatable.

Here's how Storytelling works for the chapter: **What is a Database?** 

AI-Powered Business Storytelling

Act 1: Introducing the Protagonist & Their Challenge

Protagonist: Lisa, a marketing strategist who finds it challenging to apply what is a database? for data-driven decision-making.

"Lisa felt frustrated and overwhelmed, spending long hours trying to find a solution with no clear insights."

"There must be a better way." Lisa thought.

Act 2: Enter the Guide & The Transformation

Guide: Seeking solutions, Lisa consulted Lisa, a financial expert known for simplifying complex data models., who had experience solving similar challenges.

Solution: With expert guidance, they streamline processes with what is a database?, cutting report generation time in half.

Act 3: Resolution & Success

Outcome: As a result, Lisa saw a dramatic improvement in efficiency, leading to a 45% boost in productivity and a 10% increase in revenue.

"This solution transformed the way Lisa worked, enabling faster decision-making and optimized efficiency!"

Key Takeaways

-  Data-driven solutions significantly improve decision-making.
-  Automating processes can lead to time savings and efficiency gains.
-  Companies that embrace innovation stay competitive and future-proof their business.

Reflection Questions

- How does this situation relate to your own work?
- What steps would you take in a similar challenge?
- Could automation improve your workflow?

What's Next?

You've now explored the second learning mode: **Storytelling**.

The next step introduces the **Interactive Challenges** — the most hands-on part of the AI Tutor, where you practice what you've learned using flashcards, quizzes, and other exercises.

Ready to optimize your workflow?

"Imagine your team making faster, data-driven decisions like Lisa! What challenges do you face today? Let's explore solutions together!"

What's Next?

You've now experienced the **Storytelling** learning mode.

Next, we'll enter the most hands-on section — **Interactive Challenges** — where you'll apply your knowledge through different types of tasks.

 Click "Next" to continue, or return to the main screen to choose a mode now that you know how it works.

[← Previous](#) [Next: Challenges O...](#) [Return](#)

You will again see three options:

- Previous** – Revisit the Business Case walkthrough
- Next: See Walkthrough (Challenges)** – Continue to the third and final learning mode
- Return** – Exit the walkthrough and explore the full AI Tutor interface on your own

Recommendation:

We suggest continuing with the walkthrough by clicking **Next**. It ensures you understand each learning mode before navigating the full interface independently.

Interactive Challenges – Apply What You Learned (Mode 3 of 3)

This is the **third and final learning mode** in the walkthrough — **Interactive Challenges**.

When you press **Next** after completing the Storytelling section, the AI Tutor transitions to this screen. This mode is designed to help you apply your understanding through practical, interactive tasks. It is the most hands-on component of the system.

What Happens in Interactive Challenges Mode

You are now introduced to various activity types that reinforce learning through practice. These tasks allow you to test, apply, and retain concepts from the selected chapter.

For the chapter “*What Is a Database?*”, here are the types of challenges you will be able to choose from like the screenshot shown below:

Interactive Challenges (Mode 3 of 3)

Ready to challenge yourself? Let's move on to the final mode: **Interactive Challenges**.

This mode helps you engage more deeply with the content after completing Storytelling. It's hands-on, fast-paced, and designed to reinforce learning through practice.

To get started, return to the **Next Step** section and choose “Explore Another Learning Mode”, then select **Challenges** from the dropdown menu.

Once you do that, you'll be able to choose from several types of interactive activities, including:

-  Flashcards (Flip): Quick recall using question and answer cards
-  MCQ Quiz: Answer multiple-choice questions to test your understanding
-  Fill in the Blank: Identify the missing word in a sentence for concept mastery
-  Match the Answers: Match related terms and definitions or questions and answers
-  Timed Question: Answer quickly under time pressure
-  Scenario-Based (with Hint): Make decisions in realistic workplace scenarios with guided help

After selecting any challenge type, click “**Start Challenge**” to begin the activity.

These challenges are built to make learning feel more like a game — fun, interactive, and effective at helping you master key concepts.

What's Next?

If you're ready, click “**Return to Challenges**” below to go back and explore the real challenge interface — now that you have a clear idea of how it works.

Or, if you'd like to preview how each challenge type looks, click “**Next**”

[← Previous](#)

[Next: Flashcards W...](#)

 [Return](#)

To begin any activity, select a challenge type from the dropdown menu and then click **Start Challenge**.

These challenges are designed to make learning engaging, memorable, and immediately applicable to real situations.

What's Next?

After previewing this section, you will see three buttons on the screen:



- **Previous** – Return to the Storytelling walkthrough
- **Next** – Continue exploring additional preview content or challenge examples
- **Return** – Exit the walkthrough and begin using the AI Tutor independently

Screenshots attached below will help you visually understand what this step looks like inside the interface.

Recommendation:

We encourage you to press “**Next: See Walkthrough**” and complete the full walkthrough before exiting. Sit back and explore all the learning modes in sequence. This will give you a complete understanding of how the AI Tutor works, what to expect, and how to make the most of each feature. Once the tour is complete, you'll be fully prepared to return and begin your own session with confidence.

Flashcards (Flip) – Quick Recall Learning

This is the **first challenge type** shown under the Interactive Challenges learning mode. When you click **Next: See Walkthrough** in Step 5, the AI Tutor presents the **Flashcards (Flip)** screen — as shown in the screenshot below.

This challenge type is designed for **quick revision and memory reinforcement**. It helps you test your understanding in a fast, interactive way.

How the Flashcard Challenge Works

When you select **Flashcards (Flip)** from the challenge dropdown, you will follow these steps:

- A question appears at the top of the flashcard
- Click “**Flip Card**” to reveal the answer
- Choose “**I got it**” if you knew the answer, or “**I missed it**” if you didn’t
- Your progress (e.g., 3 of 5 cards completed) is shown at the bottom
- Click “**Next**” to proceed to the next card
- Click “**Restart**” to begin the flashcard round again from the start

The screenshot attached below shows exactly how this screen appears.

Flashcards (Flip) Challenge – Quick Recall Learning

This challenge is perfect for rapid revision and memory reinforcement.

Here's how it works when you select "Flashcards (Flip)" from the dropdown:

-  A question appears at the top of the card.
-  Click "Flip Card" to reveal the answer.
-  Choose "I got it!" if you answered correctly, or "I missed it" if not.
-  Your progress (e.g., 3 of 5 cards completed) is shown at the bottom.
-  Click "Next" to move to the next card.
-  Click "Restart" to review the cards again from the start.

 Once you're done — or even in between — the **Next Step** menu appears again where you can:

- Try another challenge type (like MCQ or Fill in the Blank)
- Explore another learning mode (like Storytelling or Business Case)
- Or switch to a different chapter

This challenge mode makes learning feel fast and interactive, helping you reinforce key ideas in a bite-sized format.

 [Previous](#)

[Next: MCQ Walkthr...](#)

 [Return](#)

What's Next?

Once you've previewed this challenge type, you'll again see three navigation buttons:

- **Previous** – Go back to the Interactive Challenges overview
- **Next: MCQ Walkthrough** – Preview the next challenge type (Multiple Choice Questions)
- **Return** – Exit the walkthrough and start working directly in the AI Tutor interface

Recommendation:

This walkthrough helps you experience each challenge type step by step. We suggest continuing by clicking **Next: MCQ Walkthrough** to preview the next task. Stay focused here before returning, so you are familiar with the interface and learning modes in full before beginning your session.

Multiple-Choice Quiz (MCQ) – Test What You've Learned

This is the second challenge type shown in the **Interactive Challenges** learning mode.

When you click **Next: MCQ Walkthrough** from the Flashcards step, the AI Tutor introduces you to the **Multiple-Choice Quiz** screen, as shown in the screenshot below.

This format is ideal for testing your understanding quickly and identifying areas that may need more focus.

What to Expect

When you begin the MCQ challenge, you will see:



- A question displayed at the top of the screen
- Four possible answers listed below
- You will select one answer and then click **Submit**

This format helps reinforce what you've learned through immediate response-based learning.

Instant Feedback

After you select an answer and submit:

- If correct, you will receive positive feedback in green and earn experience points (XP)
- If incorrect, your selected answer is highlighted, and the correct answer is shown in red for immediate correction

This process helps you learn from mistakes in real time and build a stronger understanding.

What Happens After Each Question?

Click **Next** to move on to the next question. This process repeats until you complete the quiz.

After the Quiz

Once all questions are answered, the familiar **Next Step** menu will appear. You can then choose to:

- Restart the quiz
- Try a different challenge type
- Explore another learning mode
- Switch to a new chapter

The screenshot attached shows exactly how the MCQ challenge screen appears.

Multiple-Choice Quiz (MCQ) – Test What You've Learned

After finishing any learning mode—like Flashcards or Storytelling—you can continue your learning by selecting a new challenge.

To begin the MCQ challenge, go to “What would you like to do next?” and choose “Try Another Challenge”, then select MCQ Quiz from the dropdown.

What to Expect

Once the MCQ quiz begins, you'll see:

- A question displayed at the top of the screen.
- Four possible answers listed below.

Select the option you believe is correct, then click **Submit**.

Instant Feedback

-  If correct, you earn XP and see positive feedback in green.
-  If incorrect, the system highlights your answer and shows the correct one immediately.

What Happens After Each Question?

Click **Next** to proceed to the following question. You'll repeat this process until the quiz is complete.

After the Quiz

Once you've answered all the questions, you'll see the familiar **Next Step** menu, where you can:

-  Restart the quiz
-  Try a different challenge type
-  Explore another learning mode
-  Switch to a new chapter

This MCQ format helps reinforce what you've just learned and identify any gaps—making it one of the quickest ways to strengthen your understanding.

[← Previous](#)[Next: Fill in the blan...](#)[Return](#)

Recommendation:

To fully understand how challenges work, continue the walkthrough by pressing **Next: Fill in the Blank**. This will take you to the next challenge in the guided tour. We recommend completing all modes in sequence before returning to the main AI Tutor interface.

Fill in the Blanks – Reinforce Concepts Through Recall

This is the third challenge type within the **Interactive Challenges** mode.

When you click **Next: Fill in the Blank** after completing the MCQ walkthrough, the AI Tutor displays this screen, as shown in the screenshot below.

This challenge format focuses on active recall, helping you strengthen memory and reinforce understanding through contextual sentence completion.

How It Works

Once you choose **Fill in the Blank** from the challenge dropdown, the screen will guide you through the following:

- A sentence is shown with one or more missing words
- For each blank, you select the correct word from a dropdown list
- After making your selections, click **Submit** to confirm your answers



An example sentence might look like:

_____ devices, digital imaging, and machine learning.

When You're Correct

- A success message appears: "**Correct! +10 XP**"
- Click **Next** to proceed to the following sentence

When You're Wrong

- You lose one life (each user starts with three)
- Remaining lives are shown visibly on screen
- If all lives are lost, the challenge ends and a **Game Over** screen appears

Game Over Screen

At the end of the challenge, you will see:

- A review of all correct answers
- A summary of your final score
- Options to retry the challenge or switch to another chapter or challenge type

This mode is designed for bite-sized, repeatable practice that builds mastery over time.

What's Next?

Up next is another challenge type: **Match the Answers** — where you match terms, definitions, or question-answer pairs using dropdowns.

A screenshot has been provided below to show exactly how the Fill in the Blank challenge looks in the interface.

✍ Interactive Challenge: Fill in the Blanks

This next challenge mode focuses on reinforcing your memory through active recall!

Once you choose “Fill in the Blank” from the challenge dropdown, here’s what happens:

🔍 How It Works

- You’ll see a sentence with one or more missing words.
- For each blank, choose the correct word from the dropdown list.
- Click **Submit** to check if your answer is right.

Here’s an example:

_____ devices, digital imaging, and machine learning.

● When You’re Correct:

- A success message appears: “Correct! +10 XP”.
- Click **Next** to move to the following sentence.

● When You’re Wrong:

- You lose one life (you start with 3).
- Remaining lives are shown on screen.
- When lives run out, the challenge ends.

✿ Game Over Screen

- See a review of all correct answers.
- Get a summary of your final score.
- Option to retry or switch to another challenge or chapter.

This mode is perfect for bite-sized recall learning and repetition-based mastery.

```
btn_demo = widgets.Button( description="Start Fill-in-the-Blank Demo", button_style="success" ) btn_demo.on_click(lambda _ : start_fib_w
```

✓ What’s Next?

Up next is a new challenge type: **Match the Answers**. This one uses dropdowns to test your matching skills!

👉 Press **Next** to see how it works!

[← Previous](#) [Next: Match the an...](#) [Return](#)

You’ll now see three buttons:

- **Previous** – Return to the MCQ walkthrough
- **Next: Match the Answers** – Preview the next challenge type
- **Return** – Exit the walkthrough and begin using the AI Tutor freely

Recommendation:

Continue by clicking **Next** to preview the **Match the Answers** challenge. Stay with the walkthrough until the end to gain full clarity on how each feature works. Once finished, you’ll be fully equipped to begin learning in the main interface with confidence.

Match the Answers – Connect Concepts to Definitions

This is the fourth challenge type in the **Interactive Challenges** learning mode.

When you press **Next: Match the Answers** after completing the Fill in the Blank walkthrough, the AI Tutor presents the screen shown in the screenshot below.

This challenge is designed to help you reinforce understanding by matching concepts to their correct definitions using dropdown menus.

How It Works

Once you select **Match the Answers** from the challenge dropdown:

- You will see **five questions** from your current chapter
- Each question includes a **dropdown menu** of options
- You choose the response that correctly matches each concept

Step: Check Matches

After completing all selections:

- Click **Check Matches** to view your results
- The system will immediately show which answers were correct or incorrect
- A **final score** is displayed at the bottom to help you track your progress

Step: View Correct Answers

- You can also click **Show Correct Answers** to compare and learn from your mistakes
- This feature supports **self-correction** and improves retention by showing the right answers even if you got some wrong

What's After the Match?

Once the activity ends, you'll see the familiar **Next Step menu**, where you can choose to:

- Restart the challenge
- Try a different type of challenge
- Switch to another learning mode
- Explore a different chapter

The screenshot below shows how this Match the Answers interface appears inside the AI Tutor.

Challenge: Match the Answers

Ready for the next style of challenge? This one is all about matching concepts to the right definitions, using dropdowns. It's a great way to reinforce

How It Works

When you select "Match the Answers" from the dropdown, here's what happens:

- You'll see 5 questions from your chapter.
- Each question comes with a dropdown menu — just choose what you believe is the correct match!

Step: Check Matches

- After selecting answers for all questions, click **Check Matches**.
- You'll instantly see which ones you got right or wrong.
- A final score is displayed at the bottom to help you measure progress.

Step: View Correct Answers

- You can also click **Show Correct Answers** to see the right choices for all questions.
- This is super helpful for self-correction and reflection — especially if you missed a few.

What's After the Match?

Once you're done reviewing your matches, you can:

- Restart this challenge
- Try another type of challenge
- Switch learning modes
- Explore a different chapter

All of these options will be available through the familiar **Next Step** menu.

What's Next?

Great! Now let's try something a bit more time-pressed — the **Timed Question** challenge. 

👉 Press **Next** to see how it works!

[← Previous](#)

[Next: Timed question](#)

[Return](#)

What's Next?

Next, you'll be introduced to a **timed challenge**, designed to sharpen recall under pressure.

Click **Next: Timed Question** to continue the walkthrough and preview how that works.

Recommendation:

Continue the walkthrough to experience the final challenge type. Following the full guide helps ensure you're confident using each learning mode before returning to the main interface.

Timed Questions – Practice Under Pressure

This is the fifth challenge type in the **Interactive Challenges** learning mode.

When you press **Next: Timed Question** after completing the Match the Answers walkthrough, the AI Tutor presents the screen shown in the screenshot below.

This mode is designed to help you practice **fast thinking and recall**, like real-world decision-making environments such as interviews or on-the-job tasks.

How It Works

In the **Timed Questions** challenge:

- A **multiple-choice question** is displayed on screen
- A **15-second countdown timer** starts immediately
- You must select the correct answer before the timer runs out
- If no answer is selected in time, the system automatically marks the question incorrect and moves to the next one

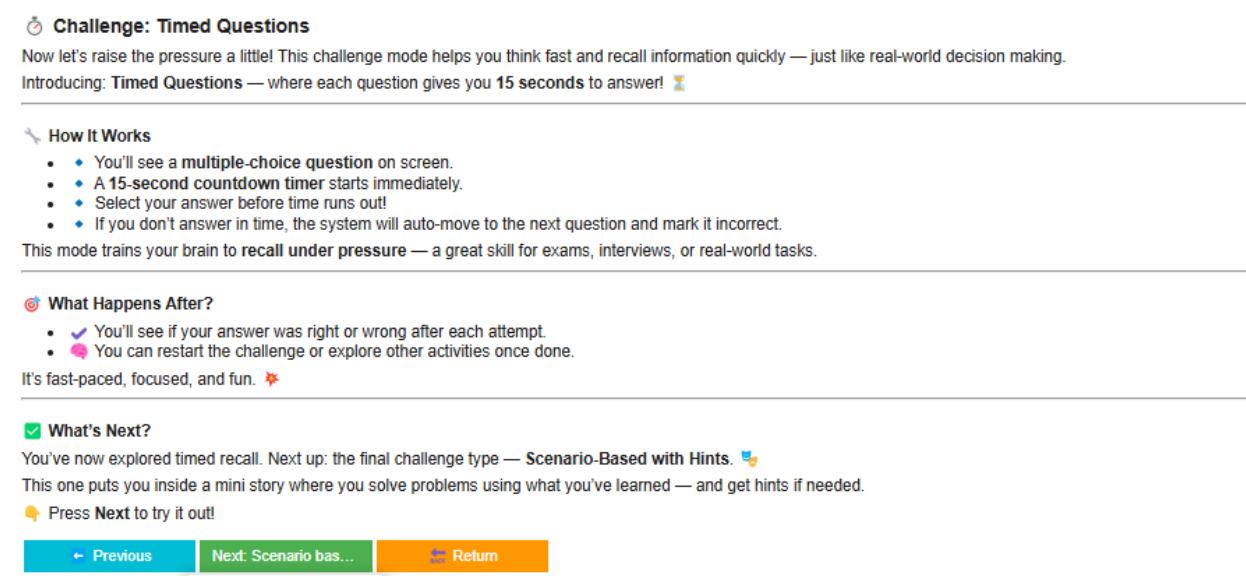
This mode helps develop your ability to **recall under pressure** valuable skill for fast-paced scenarios.

What Happens After Each Question?

- You'll see immediate feedback indicating whether your response was correct or incorrect
- Once the quiz ends, you can restart the challenge or return to the activity selection screen

This challenge format is fast, focused, and designed to sharpen your mental agility.

The screenshot below shows the actual interface for this mode.



The screenshot shows a mobile application interface for a "Timed Questions" challenge. At the top, there's a header with a timer icon and the text "Challenge: Timed Questions". Below the header, a message encourages users to raise their pressure and recalls the real-world decision-making benefit. A "How It Works" section provides a bulleted list of rules for the challenge. Another section, "What Happens After?", lists feedback and restart options. The bottom of the screen features navigation buttons for "Previous", "Next: Scenario bas...", and "Return".

⌚ Challenge: Timed Questions

Now let's raise the pressure a little! This challenge mode helps you think fast and recall information quickly — just like real-world decision making.

Introducing: **Timed Questions** — where each question gives you 15 seconds to answer! ⏳

💡 How It Works

- You'll see a multiple-choice question on screen.
- A 15-second countdown timer starts immediately.
- Select your answer before time runs out!
- If you don't answer in time, the system will auto-move to the next question and mark it incorrect.

This mode trains your brain to **recall under pressure** — a great skill for exams, interviews, or real-world tasks.

⌚ What Happens After?

- 🎯 You'll see if your answer was right or wrong after each attempt.
- 💡 You can restart the challenge or explore other activities once done.

It's fast-paced, focused, and fun. *

✅ What's Next?

You've now explored timed recall. Next up: the final challenge type — **Scenario-Based with Hints**. 📚

This one puts you inside a mini story where you solve problems using what you've learned — and get hints if needed.

👉 Press **Next** to try it out!

[← Previous](#) [Next: Scenario bas...](#) [Return](#)

What's Next?

You've now previewed how the timed recall challenge works.

The next and final challenge type is **Scenario-Based with Hints**. This mode presents a story-like situation where you solve problems using what you've learned, with guided hints along the way.

Click **Next: Scenario-Based** to continue the walkthrough.

Recommendation:

Continue with the final step in the guided walkthrough by pressing **Next**. Completing the full tour ensures you're confident navigating each challenge type before returning to the main interface.

Scenario-Based with Hints – Apply What You Know

This is the **final challenge type** in the Interactive Challenges learning mode.

When you click **Next: Scenario-Based** after completing the Timed Questions walkthrough, the AI Tutor presents the screen shown in the screenshot below.

This challenge places you in realistic, story-driven situations—similar to how you would apply knowledge in actual workplace scenarios.

How It Works

In this mode:

- A short **scenario** is presented, often based on real-life business decisions
- You are asked to select what action the character in the scenario should take
- If you're unsure, you can click **Hint** to receive helpful guidance
- Once submitted, you receive feedback explaining whether your answer was appropriate and why

This activity helps you **apply your understanding**, not just recall information. It encourages decision-making, reflection, and practical thinking.

What's Next?

You've now completed all six challenge types and experienced each learning mode the AI Tutor offers for this chapter.

Since this has been a guided walkthrough, you've been introduced to every feature in a step-by-step manner, with no choices required. This was designed to help you become fully familiar with the platform before using it independently.

A screenshot is attached to show exactly what this screen looks like.

Challenge: Scenario-Based with Hints

Here we are — the final challenge type in your learning journey: **Scenario-Based Questions!**

This mode puts you in realistic, story-driven situations where you solve problems just like you would on the job. 

How It Works

- A short scenario is presented — often based on real-life business decisions.
- You'll get a question asking what the character in the story should do.
- If you're stuck, you can click "Hint" for a helpful nudge!
- Submit your answer and learn why it was right or wrong.

It's playful, practical, and teaches you how to **apply knowledge, not just recall it**.

This is the most engaging and critical thinking-focused activity of all six. 

What's Next?

Congratulations!  You've now walked through **all six challenge types** — and experienced every learning mode this chapter offers.

Since this was a guided walkthrough, I made sure you saw all the interfaces step-by-step.

Now it's time to wrap it up and view your progress and stats. 

 In the next step, you'll get access to your **XP Dashboard**, where you can check:

-  Challenge performance
-  Total XP earned
-  Chapters completed
-  Suggestions for what to explore next

 Press **Next** to see your progress on the dashboard!

 [Previous](#)

[Next: XP Dashboard](#)

 [Return](#)

Moving Forward

In the next step, you'll be taken to your **XP Dashboard**, where you can:

- Review your **challenge performance**
- View **total XP earned**
- Track **chapters completed**
- See **suggested next steps** for continued learning

Click **Next: XP Dashboard** to proceed and begin reviewing your progress.

Final Recommendation:

You've completed the walkthrough. We recommend visiting the XP Dashboard next to see your

stats, then return to the main interface to start exploring chapters and challenges based on your interests and learning goals.

XP Dashboard – Track Your Learning Progress

After completing the full walkthrough and experiencing all six challenge types, the AI Tutor now takes you to the **XP Dashboard** — your personal performance summary.

When you press **Next: XP Dashboard** from the Scenario-Based walkthrough, the screen shown in the image below is displayed.

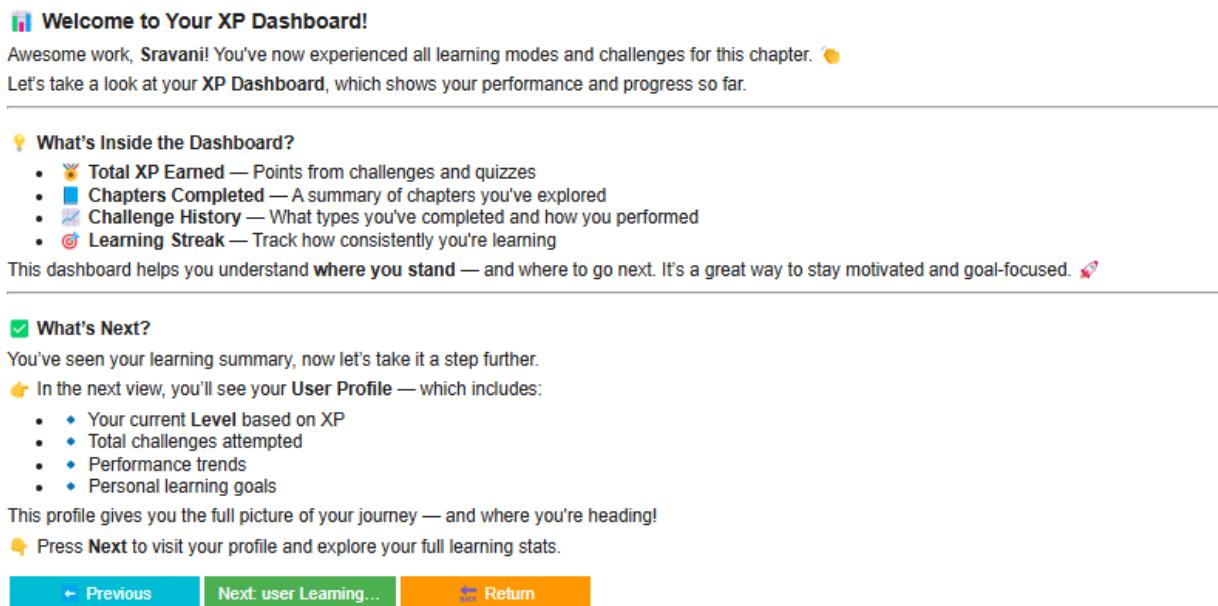
What's Inside the Dashboard

The dashboard provides a clear overview of your current learning progress:

- **Total XP Earned** – Points accumulated through quizzes and challenges
- **Chapters Completed** – A summary of the chapters you've explored
- **Challenge History** – A breakdown of the types of activities you completed and how you performed
- **Learning Streak** – Tracks your consistency and helps you stay motivated

This page helps you understand **where you stand** and **what to focus on next**.

The attached screenshot shows how this XP Dashboard appears in the interface.



The screenshot shows the "Welcome to Your XP Dashboard!" page. It includes a message of congratulations to Sravani, a summary of her performance, and sections for "What's Inside the Dashboard" and "What's Next?".

Welcome to Your XP Dashboard!

Awesome work, Sravani! You've now experienced all learning modes and challenges for this chapter. 🎉

Let's take a look at your XP Dashboard, which shows your performance and progress so far.

💡 What's Inside the Dashboard?

- 🏆 Total XP Earned — Points from challenges and quizzes
- 📚 Chapters Completed — A summary of chapters you've explored
- 📊 Challenge History — What types you've completed and how you performed
- ⏳ Learning Streak — Track how consistently you're learning

This dashboard helps you understand **where you stand** — and where to go next. It's a great way to stay motivated and goal-focused. 🚀

✅ What's Next?

You've seen your learning summary, now let's take it a step further.

👉 In the next view, you'll see your User Profile — which includes:

- Your current Level based on XP
- Total challenges attempted
- Performance trends
- Personal learning goals

This profile gives you the full picture of your journey — and where you're heading!

👉 Press **Next** to visit your profile and explore your full learning stats.

[← Previous](#) [Next: user Learning...](#) [Return](#)



What's Next?

You've now seen your learning summary. The next step gives a deeper look at your **User Profile**, which includes:

- Your current **Level**, based on total XP
- Number of **challenges attempted**
- Insights into **performance trends**
- Defined **personal learning goals**

Click **Next: User Learning Profile** to continue and explore your full progress report.

Recommendation:

This step bridges your learning journey and performance goals. Continue to the **User Profile** screen to reflect on your achievements and decide what to learn next.

Your Learning Profile – Personal Progress Summary

You've now reached the final step in the AI Tutor walkthrough: **Your Learning Profile**.

After pressing **Next: User Learning Profile** from the XP Dashboard screen, the interface will show the Learning Profile screen, as shown in the screenshot below.

This screen provides a detailed, personalized summary of your learning journey so far. It helps you reflect on progress, identify strengths, and plan what to focus on next.

What You'll Find Here

The Learning Profile includes:

- **Level & XP Progress** – Your current level and how close you are to reaching the next one
- **Performance Trends** – Insights into how you're performing across different chapters and challenge types
- **Learning Streaks** – Tracks consistency in your daily learning sessions
- **Challenge Breakdown** – A detailed view of which activities you've mastered and which need more attention
- **Goals & Milestones** – Personalized goals, helping you stay focused and track key achievements

Refer to the screenshot for a visual preview of this interface.

Your Learning Profile

You've come a long way, Sravani! Now it's time to explore your **User Profile** — your personal learning summary.  This profile gives you a full view of how far you've come, how much XP you've earned, and where your strengths lie.

What You'll Find Here:

- ★ **Level & XP Progress** — See your current level and how close you are to the next one
- 📈 **Performance Trends** — Track how you're doing across chapters and challenge types
- 🕒 **Learning Streaks** — Keep your daily learning streak going!
- * **Challenge Breakdown** — View which types you've mastered and which need more practice
- ⌚ **Goals & Milestones** — Stay focused with personalized goals and achievements

This is your home base for tracking progress and celebrating wins. Use it to guide your next learning actions! 

What's Next?

We've now completed the full walkthrough of the learning system! 

But there's one more powerful tool we haven't explored yet: **Chat with the AI Tutor**.

If you ever get stuck, confused, or curious, just open the AI chat and ask your question — whether it's a simple doubt or

👉 Press **Next** to see how AI chat support works and how it can become your 24/7 learning buddy!

[← Previous](#)

[Next: Chat with AI T...](#)

 [Return](#)

What's Next?

You've now completed the **full walkthrough of the AI Tutor system**, including:

- All learning modes
- All challenge types
- Progress tracking and performance summary views

The next step introduces one final tool — **Chat with the AI Tutor** — a 24/7 interactive support system.

Click **Next: Chat with AI Tutor** to learn how it works and how you can use it for instant help, guidance, and learning assistance at any point in your journey.

Recommendation:

This is your central hub for monitoring progress and celebrating learning milestones. Take a moment to review your stats and then move on to explore how AI chat can enhance your experience even further.

Chat with AI Tutor & Complete Walkthrough

You've reached the final part of the walkthrough — **Chat with the AI Tutor**.



When you click **Next: Chat with AI Tutor** from your User Profile, you'll arrive at this screen, as shown in the screenshot below.

The AI Tutor chat is your always-available learning assistant. You can access it anytime you need help, clarification, or deeper insights.

How to Use the AI Tutor Chat

You can use the chat feature to:

- Ask questions about concepts, terms, or examples
- Request hints or detailed explanations
- Review chapter summaries or key takeaways
- Reattempt challenges with guided help

Once you're done, simply close the chat and return to your learning dashboard to continue exploring on your own.

Below is the screenshot attached to see the interface .

🤖 Chat with AI Tutor

Congrats **Sravani**, you're now at the final part of this walkthrough! 🎉

Let's take a quick look at the **AI Tutor chat** — your always-available learning companion. 💬💡

Anytime you feel stuck, curious, or want a deeper explanation, just open the chat and type your question.

- ? Ask concept-level questions
- ⚡ Request hints or examples
- 📖 Get summaries of chapters or key takeaways
- 🔄 Ask to reattempt a challenge

Once you're done, you can exit the AI Tutor chat anytime and return to your learning dashboard. ✅

🎓 What Happens Now?

You've completed the full walkthrough — great job! 🎉

Now you know how to:

- 🔎 Choose chapters and learning modes
- 📕 Learn via business cases and storytelling
- 🎮 Master challenge types
- 📈 View your XP Dashboard and Profile
- 🤖 Use the AI Tutor to support your journey

👉 Your Turn!

It's time to explore on your own:

- ✅ Pick any chapter that interests you
- ⚡ Choose your preferred learning mode
- 💬 Try at least 2 different challenge types
- 🤖 Use AI chat if you need help or guidance

We hope this walkthrough made you confident with the system. Now go explore and learn your way. You're all set! 💪

📘 You're Now in Control!

Select any chapter below to get started. You can explore however you like using the real interface! 🎓👉

← Previous

✓ Finish Walkthro...

⬅ Return

What Happens Now?

You've now completed the **full guided walkthrough**. Well done.

By now, you should know how to:

- Navigate chapters and choose learning modes
- Learn through **Business Cases** and **Storytelling**
- Engage with all **six challenge types**
- Track your progress using the **XP Dashboard and Learning Profile**
- Use the **AI Chat** for on-demand support

Your Turn



You're now ready to explore the AI Tutor interface on your own.

You can:

- Select any chapter that interests you
- Choose a learning mode
- Try at least two different challenge types
- Reopen AI chat if you need help or clarification

This walkthrough was created to make you confident with the system. You're now fully equipped to begin learning in your own style.

You're Now in Control

If you press **Finish Walkthrough**, you'll be taken directly to the **chapter selection screen** to begin your real learning session.

Note:

If you had selected "**No, Start AI Tutor**" at the beginning (instead of the walkthrough), this is the **first screen you would have seen** — the learning dashboard with chapters and challenge options.

Click **Finish Walkthrough** now to begin using the full AI Tutor experience.

Step 4: Real Interface – Explore Freely After Walkthrough or Skip

Now that you've either completed the full walkthrough or chosen to skip it, you're on the **real interface screen** — the place where your personalized learning begins.

You've Already Seen How It Works

Since you've walked through each learning mode step by step, the interface will now feel familiar. You've already previewed:

- How chapter selection works
- What happens inside each learning mode
- How to track your progress and get help if needed

So there's nothing new to figure out here — just choose what interests you and start learning.

Clear Guidance at Every Step

If at any point you feel stuck or need a refresher, just click the “See Walkthrough” button. You can return to the guided experience at any time to revisit how things work — no pressure, no reset by pressing return button.

Ready to Learn?

Now you're in control:

- Choose any chapter that interests you from the dropdown
- Click “Confirm Chapter” to begin
- Select your learning mode: Business Case, Storytelling, or Interactive Challenges
- Explore at your pace — the AI Tutor will guide you along the way



Hi Sravani!

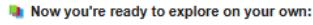
Welcome! That's a great name — I'm excited to learn with you today. 😊

Before you begin choosing chapters on your own, I recommend taking a quick walkthrough using a default chapter. You'll see how this tutor works — just follow along step by step. 🌟

Click the “Start Walkthrough” button below to get a feel for how learning works here.

Later, when you're ready, you can return to this screen anytime and explore freely by clicking Go Back. 🔍

Once you're familiar with how things work, you're all set to pick any chapter you like from the dropdown below and continue learning at your own pace.

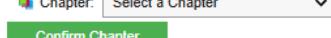


Now you're ready to explore on your own:

You've now seen how chapter selection works in the walkthrough example.

This time, you're in control — pick any chapter you like from the dropdown below and press confirm chapter to continue your learning journey. 🌟

The walkthrough showed just one chapter, but feel free to explore others based on your interest.



The screenshot above shows exactly how this screen appears.

Tip:

The walkthrough showed only one example chapter. Feel free to explore more based on your interests. You're now set to begin your own learning journey.

Chapter View – Explore Any Chapter with Guided or Self-Led Options

In this step, you're now viewing the actual chapter content after making a selection.

In this example, I've selected the first chapter: “AI Tutor – 1.1 Computing from Inception to Today.”

You can select any chapter you're interested in — the interface will adapt accordingly.

What You'll See on the Chapter Screen

After confirming your chapter, the screen presents:

- **Quick Summary** – A concise explanation of the topic
- **Visual Content** – Images or diagrams that help explain key concepts
- **Additional Learning Resources** – Optional links for further reading
- **Learning Mode Selection** – Options to choose how you want to explore the material

Choose How to Learn This Chapter

You have two clear options:

A. Jump Straight In

1. Use the **dropdown menu** to select a learning mode
2. Click “**Confirm Mode**” to begin immediately

B. Want a Quick Tour First?

- Click **Preview** to see a sample of how each learning mode works
- Click **Next** to step through each mode in a guided sequence
- Click **Return** to come back to this chapter screen at any time

Stuck or Need Help?

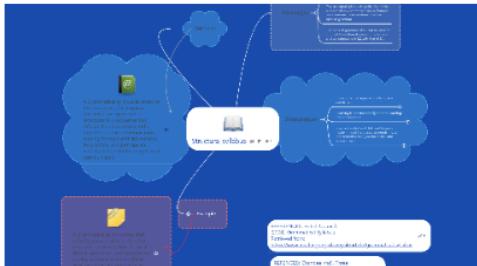
If you're unsure how to proceed:

- Use the **See Walkthrough** button to revisit the guided experience
- Instructions are clearly shown at each step
- You can always return to this screen after exploring

The screenshot shows exactly how this screen appears after selecting Chapter 1.1. The same structure will apply to any other chapter you choose.

AI Tutor – 1.1 Computing from Inception to Today

Quick Summary: Early computers were used predominantly by engineers and scientists to handle large amounts of data. Key companies in the evolution of computing include IBM, Hewlett Packard, Xerox has increased efficiencies, decreased errors, opened new opportunities, and enhanced business-customer relationships. Key technologies in computing include mobile devices, digital imaging, and machine implications.



Additional Learning Resources

Here are some external resources to explore more about 1.1 Computing from Inception to Today:

- [Cybersecurity Framework | NIST](#)
- [Artificial intelligence \(AI\) applications for marketing: A literature ...](#)
- [The Essentials: Core Competencies for Professional Nursing....](#)
- [Europe 6G Market Research Report 2029-2035: European ...](#)
- [THEME 1 ANSWERS CHAPTER 1 CASE STUDY: MARS AND ...](#)

How would you like to learn this chapter?

Option A – Jump straight in:

- 1 • Open the dropdown  and pick *Business Case*, *Storytelling*, or *Challenges*.
- 2 • Click **Confirm Mode** (green) to start.

Option B – Need a tour first?

- Click the blue **Preview** button to see a quick walkthrough.
- You can return here at any time by pressing **Return**. • If you'd like to see how each learning mode works and looks, just press **Next** and we'll walk through them one by one

 Mode:

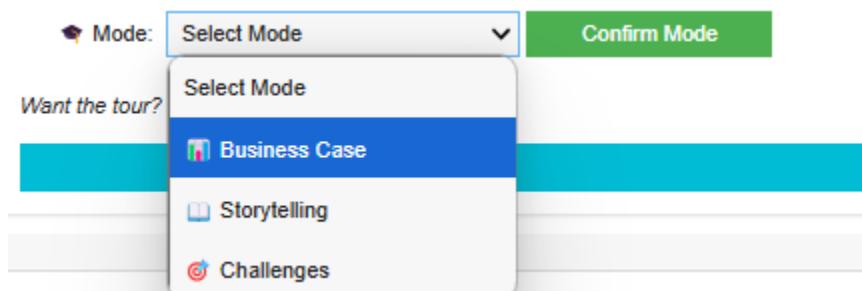
Want the tour?

Recommendation:

Explore freely or continue with a guided tour — it's up to you. All chapters follow the same clear structure, and support is always one click away.

Learning Modes – Explore How You Want to Learn

After selecting a chapter and scrolling down, you'll find the **Learning Modes** section. The screen shot is attached for your reference.



There are three ways to engage with the material:

1. **Business Case** – Understand how the concept applies in real-world companies
2. **Storytelling** – Follow a relatable character using the concept in context

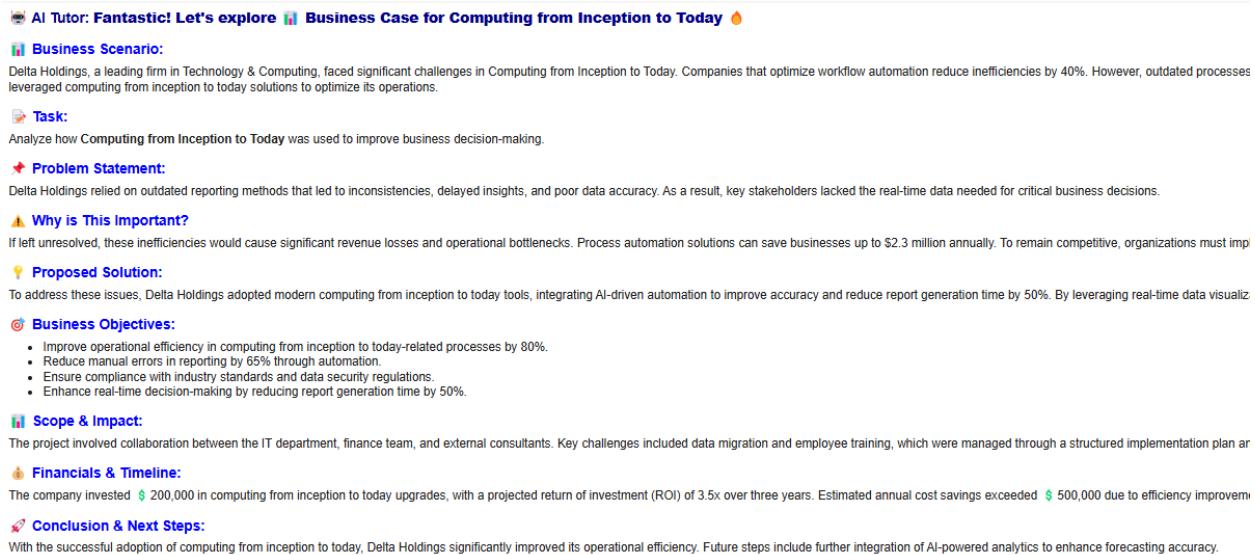
3. Challenges – Practice and reinforce learning through interactive tasks

In This Example: Starting with Business Case

I've chosen to begin with the **Business Case**, just like we saw in the walkthrough.

When you click **Confirm Mode**, the AI Tutor loads the selected learning mode and provides clear, structured content relevant to the chapter you chose (in this case, *Computing from Inception to Today*).

The screenshots below show how this looks in the interface.



The screenshot shows the AI Tutor interface with the following sections:

- AI Tutor: Fantastic! Let's explore** **Business Case for Computing from Inception to Today**
- Business Scenario:** Delta Holdings, a leading firm in Technology & Computing, faced significant challenges in Computing from Inception to Today. Companies that optimize workflow automation reduce inefficiencies by 40%. However, outdated processes leveraged computing from inception to today solutions to optimize its operations.
- Task:** Analyze how Computing from Inception to Today was used to improve business decision-making.
- Problem Statement:** Delta Holdings relied on outdated reporting methods that led to inconsistencies, delayed insights, and poor data accuracy. As a result, key stakeholders lacked the real-time data needed for critical business decisions.
- Why is This Important?** If left unresolved, these inefficiencies would cause significant revenue losses and operational bottlenecks. Process automation solutions can save businesses up to \$2.3 million annually. To remain competitive, organizations must imp
- Proposed Solution:** To address these issues, Delta Holdings adopted modern computing from inception to today tools, integrating AI-driven automation to improve accuracy and reduce report generation time by 50%. By leveraging real-time data visualiz
- Business Objectives:**
 - Improve operational efficiency in computing from inception to today-related processes by 80%.
 - Reduce manual errors in reporting by 65% through automation.
 - Ensure compliance with industry standards and data security regulations.
 - Enhance real-time decision-making by reducing report generation time by 50%.
- Scope & Impact:** The project involved collaboration between the IT department, finance team, and external consultants. Key challenges included data migration and employee training, which were managed through a structured implementation plan ar
- Financials & Timeline:** The company invested \$ 200,000 in computing from inception to today upgrades, with a projected return of investment (ROI) of 3.5x over three years. Estimated annual cost savings exceeded \$ 500,000 due to efficiency improvem
- Conclusion & Next Steps:** With the successful adoption of computing from inception to today, Delta Holdings significantly improved its operational efficiency. Future steps include further integration of AI-powered analytics to enhance forecasting accuracy.

You'll read a real-world application of the concept and how it's used in practice. After reviewing, you'll see a prompt like this:

What's Next?

Once you complete the Business Case, you'll be asked how you'd like to continue. You have two options:

Option A: Continue the Guided Walkthrough

- You'll automatically be shown the next mode: **Storytelling**
- After that, you can continue to **Challenges** by clicking "Next: See Challenges"
- If needed, you can click "**Return to Learning Mode Selection**" to go back and pick your own path

Option B: Choose a Mode Yourself

- If you're comfortable navigating on your own, scroll to the section titled "What would you like to do next?"
- Click "**Explore Another Learning Mode**" to return and select Storytelling or Challenges directly

Fully Guided, Fully Flexible

No matter what path you choose, the system always provides:

- Clear, on-screen instructions
- Return buttons to go back to learning mode selection
- An option to preview all modes one after another

Screenshots attached show how the **What's Next** section looks and how to continue from Business Case to the next learning mode.

Conclusion & Next Steps:

With the successful adoption of computing from inception to today, Delta Holdings significantly improved its operational efficiency. Future steps include further integration of AI-powered analytics to enhance forecasti

What's next?

Great job reading the Business Case! Choose how you'd like to continue:

1. Continue the Guided Walkthrough

You'll automatically preview the next mode, *Storytelling*. Then, by clicking the "Next: See Challenges" button, you'll explore the *Challenges* mode as well. At any point, you can click the "Return" button to go back to the learning mode selection screen.

2. Choose a Mode Yourself

If you're already familiar with the learning modes, you can decide what to do next. Below, you'll find a section titled "What would you like to do next?" — where you click "Explore Another Learning Mode" to return and select Storytelling or Challenges directly.

Remember: You can return to the learning mode selection screen at any time.



 Return to Mode ...

 Continue Walk-through

Additional Learning Resources

Here are some external resources to explore more about Computing from Inception to Today:

- [McKinsey technology trends outlook 2024 | McKinsey](#)
- [AI revolutionizing industries worldwide: A comprehensive overview ...](#)
- [The Future of Jobs Report 2023 | World Economic Forum](#)
- [Tech Trends 2025 | Deloitte Insights](#)
- [How Many Companies Use Cloud Computing in 2024? \[10 Statistics ...\]](#)

What would you like to do next?

Next Step:

-  Restart 
-  Try Another Challenge
-  Explore Another Learning Mode
-  Choose Another Chapter
-  Chat with AI Tutor
-  Check My XP Dashboard
-  View My Profile
-  Exit AI Tutor

 Continue

Recommendation:

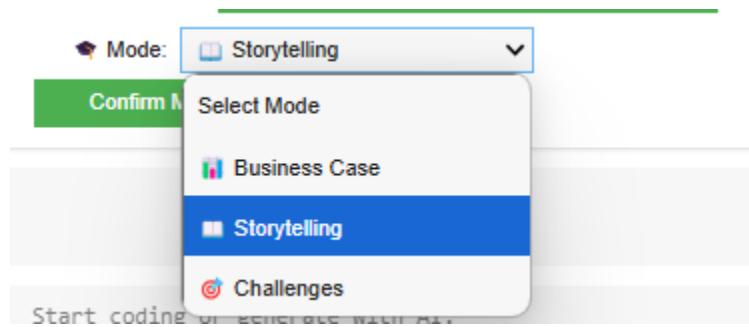
We suggest you go through all three learning modes — Business Case, Storytelling, and

Challenges — for each chapter. This gives you a well-rounded understanding before moving on to the next topic.

Next I choose Storytelling Mode – Learn Through a Real-World Character

After completing the Business Case or choosing **Explore Another Learning Mode**, I selected the **Storytelling** mode by pressing the return button, or from the What do you want to choose next options, I chose another learning mode.

This option, just like shown in the walkthrough, presents a narrative-based explanation of the concept using a character-driven scenario. It's designed to help you relate the topic to real-life work situations.



What You See in Storytelling Mode

The AI Tutor introduces a fictional character (e.g., Lisa), facing a realistic challenge relevant to the chapter. You'll follow her journey as she:

- Encounters a problem
- Seeks guidance
- Applies the concept (in this case, computing)
- Achieves a measurable result or improvement

This mode helps you **understand the value of the concept through experience and outcome**, rather than just definition.

Example closing message:

"Imagine your team making faster, data-driven decisions like Lisa! What challenges do you face today? Let's explore solutions together."

💡 AI Tutor: Fantastic! Let's explore 📖 Storytelling for Computing from Inception to Today 🔥

📖 Storytelling

📘 AI-Powered Business Storytelling

◆ Act 1: Introducing the Protagonist & Their Challenge

Protagonist: Leo, a business consultant who is struggling with computing from inception to today concepts, making their daily tasks inefficient.

"Leo felt frustrated and overwhelmed, spending long hours trying to find a solution with no clear insights."

"There must be a better way," Leo thought.

◆ Act 2: Enter the Guide & The Transformation

Guide: Seeking solutions, Leo consulted David, a senior software developer specializing in automation., who had experience solving similar challenges.

Solution: With expert guidance, they adopts new techniques in computing from inception to today, improving efficiency and accuracy.

◆ Act 3: Resolution & Success

Outcome: As a result, Leo saw a dramatic improvement in efficiency, leading to a 24% boost in productivity and a 13% increase in revenue.

"This solution transformed the way Leo worked, enabling faster decision-making and optimized efficiency!"

◆ Key Takeaways

- 📊 Data-driven solutions significantly improve decision-making.
- 🚀 Automating processes can lead to time savings and efficiency gains.
- 💡 Companies that embrace innovation stay competitive and future-proof their business.

💡 Reflection Questions

- How does this situation relate to your own work?
- What steps would you take in a similar challenge?
- Could automation improve your workflow?

🚀 Ready to optimize your workflow?

"Imagine your team making faster, data-driven decisions like Leo! What challenges do you face today? Let's explore solutions together!"

What's Next?

After completing Storytelling, you'll see the next-step instructions:

Option A: Continue the Guided Walkthrough

- Click “Next: See Challenges” to automatically move to the **Challenges** learning mode
- This will let you test your knowledge with flashcards, quizzes, and other interactive tasks

Option B: Choose a Mode Yourself

- Scroll to the section titled “**What would you like to do next?**”
- Click “**Explore Another Learning Mode**” to return to the mode selection screen
- From there, pick the next mode you’d like to try

Clear instructions are shown at every point, and you can **press Return** at any time to switch modes without losing your place.

Why Use This Mode?

This storytelling format helps you connect theory with practice. It's especially useful during the learning phase to understand a topic **beyond textbook content** — making the information more memorable and context-aware.

Screenshots attached show how this experience is presented in the interface.

 **Ready to optimize your workflow?**
"Imagine your team making faster, data-driven decisions like Leo! What challenges do you face today? Let's explore solutions together!"

 **What's next?**

Great job completing the Storytelling learning mode! You've now seen a dynamic scenario that brings the concept to life with a real-world character and challenge.

1. Continue the Guided Walkthrough
You'll automatically preview the next mode, *Challenges*, where you can test your knowledge with interactive tasks. By clicking the "Next: See Challenges" button, you'll di
2. Choose a Mode Yourself
If you're ready to choose a mode, feel free to return to the learning mode selection screen and pick the mode that suits you best. You can explore more learning modes or

Remember: You can always return to the learning mode selection screen at any time.

  [Continue Walk-through](#)

 **Additional Learning Resources**
Here are some external resources to explore more about Computing from Inception to Today.

- [McKinsey technology trends outlook 2024 | McKinsey](#)
- [AI revolutionizing industries worldwide: A comprehensive overview ...](#)
- [The Future of Jobs Report 2023 | World Economic Forum](#)
- [Tech Trends 2025 | Deloitte Insights](#)
- [How Many Companies Use Cloud Computing in 2024? \[10 Statistics ...](#)

 **What would you like to do next?**

Next Step:

  Restart  Storytelling

  Try Another Challenge

  Explore Another Learning Mode

  Choose Another Chapter

  Chat with AI Tutor

  Check My XP Dashboard

  View My Profile

  Exit AI Tutor

[Continue](#)

Recommendation:

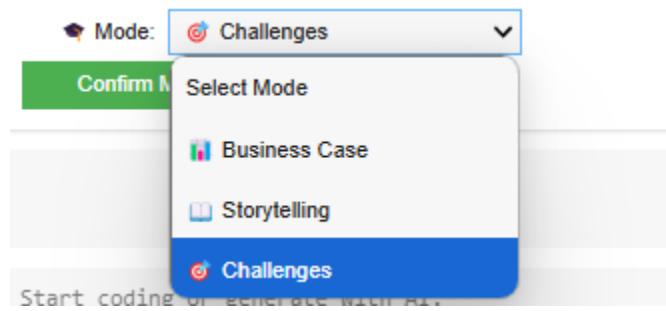
Continue to the final learning mode — **Challenges** — to apply what you've learned. The system supports you step by step, and you can always revisit any mode later.

Next Selected Challenges Mode from “Explore Another Learning Mode” – Practice What You’ve Learned

After completing Storytelling Mode, I selected **Challenges Mode** by clicking “**Explore Another Learning Mode**” under the “**What would you like to do next?**” section.

Just like in the earlier walkthrough, the **real interface provides clear instructions** to help you choose from multiple challenge types — whether it's flashcards, quizzes, fill-in-the-blanks, matching tasks, or scenario-based questions.

Screenshots below show how this challenge selection screen looks in the live interface.



What You'll See on This Screen

- A dropdown menu listing all available challenge types
- A **Start Challenge** button to launch the activity
- A **Preview or See Walkthrough** option if you want to revisit how that specific challenge works
- A **Return** button that lets you go back to the previous screen anytime

At this stage, you're fully in control, with step-by-step instructions always visible — just like during the guided walkthrough.

Challenge Types Available

You can choose from the following types:

- **Flashcards** – Quick recall with flip cards
- **Multiple Choice Questions (MCQs)** – Select the correct option
- **Fill in the Blanks** – Complete sentences based on what you've learned
- **Match the Answers** – Match terms to definitions
- **Timed Questions** – Respond within a time limit
- **Scenario-Based (with Hints)** – Solve a real-world problem with optional guidance

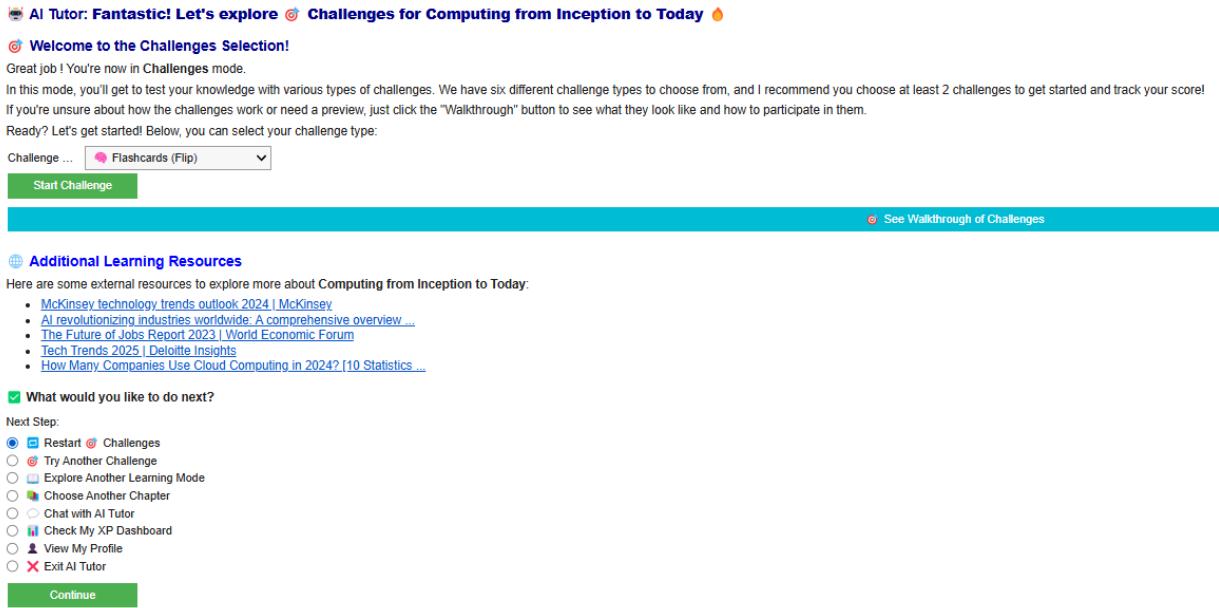
Guidance at Every Point

If you ever feel unsure about what to do next:

- Use the "**See Walkthrough**" button to preview how each challenge type works

- Use the **Return** button to go back and select a different challenge type or mode

The attached screenshots show what the challenge selection screen looks like and how to proceed.



The screenshot shows the AI Tutor interface. At the top, there's a message: "AI Tutor: Fantastic! Let's explore Challenges for Computing from Inception to Today". Below it, another message says "Welcome to the Challenges Selection!". It informs the user that they're now in Challenges mode and provides a walkthrough of the challenges available. A dropdown menu shows "Challenge ... Flashcards (Flip)". A green "Start Challenge" button is visible. On the right, a link says "See Walkthrough of Challenges". Below this, a section titled "Additional Learning Resources" lists external links from McKinsey, World Economic Forum, and Deloitte. A checkbox is checked next to "What would you like to do next?". Under "Next Step:", several options are listed with radio buttons: "Restart Challenges" (selected), "Try Another Challenge", "Explore Another Learning Mode", "Choose Another Chapter", "Chat with AI Tutor", "Check My XP Dashboard", "View My Profile", and "Exit AI Tutor". A green "Continue" button is at the bottom.

My Recommendation

I strongly suggest that you try **at least two different challenge types** for each chapter. This will give you a more complete understanding of the content and allow you to engage in both recognition and recall-based learning.

I Selected Flashcards Challenge – Quick Recall Practice

Now that I've entered **Challenges Mode**, I selected the **Flashcards (Flip)** option from the dropdown. You can choose any challenge you prefer, but I recommend starting with at least two

to get a well-rounded experience.

🧠 Flashcard Challenge

💡 What are the benefits of computing technology? (Tap to Flip)

 Flip Card  Next

Progress: 1 / 5

 I got it!  I missed it
 Restart

🌐 Additional Learning Resources

Here are some external resources to explore more about 1.1 Computing from Inception to Today:

- [Cybersecurity Framework | NIST](#)
- [Artificial intelligence \(AI\) applications for marketing: A literature ...](#)
- [The Essentials: Core Competencies for Professional Nursing ...](#)
- [Europe 6G Market Research Report 2029-2035: European ...](#)
- [THEME 1 ANSWERS CHAPTER 1 CASE STUDY: MARS AND ...](#)

✅ What would you like to do next?

Next Step:

-   Restart  Try Another Challenge
-  Explore Another Learning Mode
-  Choose Another Chapter
-  Chat with AI Tutor
-  Check My XP Dashboard
-  View My Profile
-  Exit AI Tutor

 Continue

What You'll See in the Flashcards Challenge

Once you select **Flashcards (Flip)** and click **Start Challenge**, the screen presents a simple, interactive card format designed to test your recall.

Here's how it works:

- A **question** appears at the top of the card
- Click "**Flip Card**" to view the correct answer
- After reviewing the answer:
 - Click "**I got it!**" if your answer was correct
 - Click "**I missed it**" if your answer was incorrect
- You'll see a **progress tracker** (e.g., "Card 2 of 5") to know how far along you are
- Click "**Next**" to move to the next card

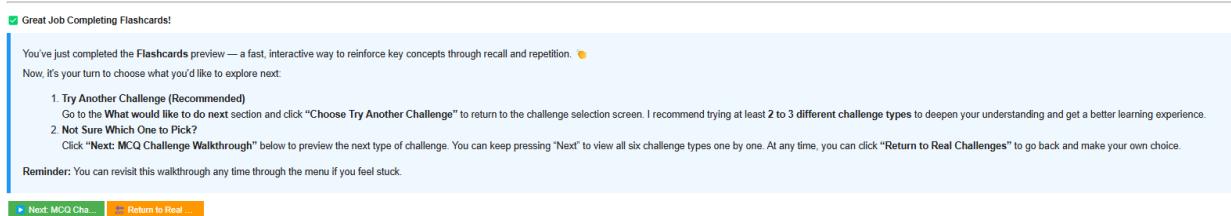
- Use “**Restart**” to go through the cards again

Need Help Navigating?

If you’re ever unsure what to do next:

- Click “**See Walkthrough**” to revisit how this challenge type works
- Press **Return** to go back and select another challenge or learning mode

The interface provides clear instructions at every point to ensure you’re never lost.



A screenshot of a digital interface for a "Flashcards" challenge. At the top left, there's a green checkmark icon and the text "Great Job Completing Flashcards!". Below this, a message says, "You've just completed the Flashcards preview — a fast, interactive way to reinforce key concepts through recall and repetition. Now, it's your turn to choose what you'd like to explore next." There are two main navigation options: "1. Try Another Challenge (Recommended)" which leads to "Choose Try Another Challenge", and "2. Not Sure Which One to Pick?" which leads to "Next: MCQ Challenge Walkthrough". A reminder at the bottom states, "Reminder: You can revisit this walkthrough any time through the menu if you feel stuck." At the very bottom, there are two buttons: "Next: MCQ Ch..." and "Return to Real ...".

What’s After Flashcards?

Once you finish the flashcard round (or even midway), you’ll see the familiar **Next Step Menu**, where you can:

- Try another challenge type like **MCQ** or **Fill in the Blank**
- Explore a different learning mode like **Storytelling** or **Business Case**
- Switch to a different **chapter** if you’re ready to explore more content

Why This Mode Helps

Flashcards are ideal for **quick, low-pressure revision**. They strengthen memory through repetition and active recall, which is essential for long-term understanding.

Recommendation:

Try at least one more challenge type after Flashcards to experience different testing formats. Each mode reinforces the content from a different angle, helping you engage with it more effectively.

I Selected MCQ Quiz – Test Your Understanding with Multiple-Choice Questions

After completing the **Flashcards** or any previous challenge, I selected **MCQ Quiz** from the dropdown under “**Try Another Challenge**” in the “**What would you like to do next?**” section.

This challenge type is ideal for testing how well you’ve understood the chapter content in a structured, question-answer format.

Multiple Choice Question

What are the key companies that have played a significant role in the evolution of computing?

- A. IBM is somewhat related but lacks the key details.
- B. IBM, Hewlett Packard, Xerox, Apple, and Microsoft
- C. IBM is often confused with formatting options like fonts or colors.
- D. IBM helps organize data but doesn't summarize it.

Submit

 **Next**

Progress: 1/5

Additional Learning Resources

Here are some external resources to explore more about Computing from Inception to Today:

- [McKinsey technology trends outlook 2024 | McKinsey](#)
- [AI revolutionizing industries worldwide: A comprehensive overview ...](#)
- [The Future of Jobs Report 2023 | World Economic Forum](#)
- [Tech Trends 2025 | Deloitte Insights](#)
- [How Many Companies Use Cloud Computing in 2024? \[10 Statistics ...\]](#)

What would you like to do next?

Next Step:

-  Restart MCQs
-  Try Another Challenge
-  Explore Another Learning Mode
-  Choose Another Chapter
-  Chat with AI Tutor
-  Check My XP Dashboard
-  View My Profile
-  Exit AI Tutor

Continue

What You See in the MCQ Quiz

Once the quiz begins:

- A question appears at the top of the screen
- Four answer choices are listed below
- You select your answer and click **Submit** to lock it in

What Happens When You Submit an Answer

-  **If correct:**

You earn XP, and a confirmation appears in green with positive feedback

■ Multiple Choice Question

What are the key companies that have played a significant role in the evolution of computing?

- A. IBM works with raw data, not summary metrics.
- B. IBM is part of data entry, not analysis.
- C. IBM, Hewlett Packard, Xerox, Apple, and Microsoft
- D. IBM is about aesthetics, not insights.

[Submit](#)

[→ Next](#)

 Correct! +10 XP

-  **If incorrect:**

Your selected answer is marked as wrong, and the correct answer is shown immediately beneath it

■ Multiple Choice Question

How did computers become available to the average consumer?

- A. Microprocessor revolutionized the way computers refers to a different feature not related to this context.
- B. Microprocessor revolutionized the way computers is about aesthetics, not insights.
- C. Microprocessor revolutionized the way computers were used
- D. Microprocessor revolutionized the way computers is somewhat related but lacks the key details.

[Submit](#)

[→ Next](#)

 Incorrect.

 **Correct Answer:** Microprocessor revolutionized the way computers were used

This **instant feedback** helps you learn in real time — reinforcing the right concept as soon as a mistake is made.

Navigating the Quiz

After each question:

- Click **Next** to move on to the next question
- Your progress is tracked, and the quiz continues until all questions are completed

Once the quiz ends, you'll be shown the familiar **Next Step** options.

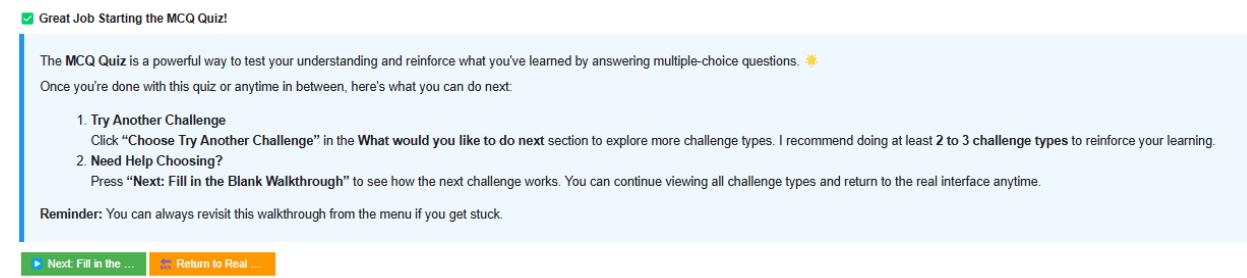
What You Can Do After Finishing the MCQ Quiz

Once you've completed the quiz, you can:

1. **Restart the Quiz** to try again
2. **Try Another Challenge Type** – such as Fill in the Blank, Match the Answers, or Timed Questions

3. **Explore Another Learning Mode** like Storytelling or Business Case
4. **Switch to a Different Chapter** if you're ready to move on

All these actions are accessible through the **Next Step menu**, which appears automatically.



The screenshot shows a light gray box containing the "Next Step menu". At the top left is a green checkmark icon followed by the text "Great Job Starting the MCQ Quiz!". Below this is a message: "The MCQ Quiz is a powerful way to test your understanding and reinforce what you've learned by answering multiple-choice questions. Once you're done with this quiz or anytime in between, here's what you can do next:". Underneath are two numbered options: "1. Try Another Challenge" and "2. Need Help Choosing?". Each option has a brief description and a link to another page. At the bottom of the box is a reminder: "Reminder: You can always revisit this walkthrough from the menu if you get stuck." At the very bottom are two buttons: a green one labeled "Next: Fill in the ..." and an orange one labeled "Return to Real ...".

The screenshot above highlights how these instructions appear on screen.

Recommendation:

To get the most out of Challenge Mode, I recommend completing **at least 2–3 challenge types**. This gives you a mix of recall, reasoning, and decision-making practice.

I Selected Fill in the Blanks – Strengthen Recall with Contextual Clues

After completing previous challenges like MCQs or Flashcards, I selected **Fill in the Blank** from the challenge dropdown.

This challenge mode is designed to help reinforce key concepts by asking you to complete sentences with the correct terms — drawn directly from the chapter content.

See the screenshot below for what this challenge looks like in the interface.

Interactive Fill in the Blanks (Block 2/5)

Sentence: ___ revolutionized the way computers were used

Lives:  Score: 10

Blank 1:	Select	▼
Submit	→ Next	

How It Works

Once you begin the challenge, you'll see:

- A sentence with one or more missing words, such as:
_____ devices, digital imaging, and machine learning.
- For each blank, select the correct word from a dropdown menu
- Click **Submit** to check your answer

What Happens When You're Correct

- A message appears: “**Correct! +10 XP**”
- Click **Next** to proceed to the next sentence in the set

Interactive Fill in the Blanks (Block 2/5)

Sentence: _____ revolutionized the way computers were used

Lives:    Score: 10

Blank 1: ▼

Submit → Next

Correct! +10 XP

What Happens When You're Wrong

- You start with **3 lives**
- Each wrong answer deducts **one life**
- Your remaining lives are shown clearly on screen
- Once you lose all 3 lives, the game ends automatically

Interactive Fill in the Blanks (Block 3/5)

Sentence: _____ devices, digital imaging, and machine learning

Lives:    Score: 20

Blank 1: ▼

Submit → Next

 **Incorrect. Lives left:**  

End of Challenge – Game Over Screen

If all lives are lost or you finish all items, you'll be shown a “**Game Complete**” screen with:

- A review of correct answers

- A chapter summary to reinforce key takeaways
- Your final score

Game Complete!

Final Score: 0

Review Your Questions & Answers:

- IBM, **Hewlett** Packard, Xerox, Apple, and Microsoft
- **Microprocessor** revolutionized the way computers were used
- **Mobile** devices, digital imaging, and machine learning
- **Rapid** technological change has distinct career implications, as it allows for the use of new technologies and skills in nearly every industry
- **Increases** efficiencies, decreases errors, opens new opportunities, and enhances business-customer relationships

Chapter Summary:

Early computers were used predominantly by engineers and scientists to handle large amounts of data. Key companies in the evolution of computing technology have increased efficiencies, decreased errors, opened new opportunities, and enhanced business-customer relationships. The rapid pace of technological change has distinct career implications.

You'll also have the option to:

- **Restart** the challenge
- **Try another challenge type**
- **Explore another learning mode**
- **Switch to a new chapter**

Clear instructions appear at every step, so you'll never feel unsure of what to do next.

What You Can Do After This

After completing the Fill in the Blank challenge — or even during — you'll see the familiar **Next Step** menu:

1. **Try Another Challenge** – Choose from other options like Matching or Timed Questions
2. **Need Help Choosing?** – Press **Next** to preview the next challenge in walkthrough style
3. **Return to the Real Interface** – Resume chapter exploration at your pace

Next Step:

-  Restart Match the Answers
-  Try Another Challenge
-  Explore Another Learning Mode
-  Choose Another Chapter
-  Chat with AI Tutor
-  Check My XP Dashboard
-  View My Profile
-  Exit AI Tutor

[Continue](#)

 Great Job Starting the Fill in the Blank Challenge!

The Fill in the Blank challenge is designed to strengthen your understanding by asking you to complete key terms in context. 

You'll read a sentence with a missing word and type in what you think fits best.

Here's what you can do after finishing (or anytime during) this challenge:

1. Try Another Challenge

Click "Choose Try Another Challenge" from the What would you like to do next section below to explore more challenge types. I recommend doing at least 2 to 3 different types to cover all skills.

2. Need a Walkthrough?

Press "Next: Match the Answers Walkthrough" to preview how the next challenge works. You can preview all types step by step and return to the real interface anytime.

Tip: You can always revisit this guided tour later if you're unsure which challenge to pick.

 [Next: Match the ...](#)  [Return to Real ...](#)

The screenshot above shows exactly how these post-challenge options appear.

Recommendation:

This challenge is ideal for reinforcing concepts through short, repeatable practice. It's especially effective if you're a visual or contextual learner. For the best learning experience, try this alongside at least two other challenge types.

I Selected Match the Answers – Reinforce Concepts Through Pairing

After completing previous challenges, I selected **Match the Answers** from the dropdown in the Challenges section.

This challenge type helps reinforce your understanding by asking you to pair **key terms with their correct definitions** or match related concepts — based on the chapter you're learning.

The screenshot provided below shows how this interface looks in the real environment.



Match the Answers (Dropdown Version)

Q1: What are the key companies that have played a significant role in the evolution of computing?
A1: Select an Answer

Q2: How did computers become available to the average consumer?
A2: Select an Answer

Q3: What are the key technologies in computing?
A3: Select an Answer

Q4: How do advances in technology affect nearly every industry?
A4: Select an Answer

Q5: What are the benefits of computing technology?
A5: Select an Answer

How It Works

When you begin the Match the Answers challenge:

- You'll see a set of **five questions**
- Each question includes a **dropdown menu** of options
- You select what you believe is the correct match for each item

Step: Check Matches

After answering all five questions:

- Click **Check Matches**
- The interface will immediately show:
 - Your selected answers
 - The correct answers
 - Whether each was right or wrong
 - Your final score at the bottom

This gives you instant, actionable feedback on how well you understood the material.

Screenshot shows how correct and incorrect answers are displayed for reflection.

Match Results Summary		Result
Question	Your Answer	Correct Answer
Q1	<input checked="" type="checkbox"/> Microprocessor revolutionized the way computers were used	<input checked="" type="checkbox"/> IBM, Hewlett Packard, Xerox, Apple, and Microsoft
Q2	<input checked="" type="checkbox"/> Increases efficiencies, decreases errors, opens new opportunities, and enhances business-customer relationships	<input checked="" type="checkbox"/> Microprocessor revolutionized the way computers were used
Q3	<input checked="" type="checkbox"/> Mobile devices, digital imaging, and machine learning	<input checked="" type="checkbox"/>
Q4	<input checked="" type="checkbox"/> Microprocessor revolutionized the way computers were used	<input checked="" type="checkbox"/> Rapid technological change has distinct career implications, as it allows for the use of new technologies and skills in nearly every industry
Q5	<input checked="" type="checkbox"/> Rapid technological change has distinct career implications, as it allows for the use of new technologies and skills in nearly every industry	<input checked="" type="checkbox"/> Increases efficiencies, decreases errors, opens new opportunities, and enhances business-customer relationships

ⓘ Score: You matched 1 out of 5 correctly
 ⓘ Partial credit! Learn from mistakes and try again!

Step: View Correct Answers

If you'd like to review only the right answers:

- Click **Show Correct Answers**
- The screen will display each question alongside the correct match — helping you reinforce knowledge even if you missed some during the attempt

This step encourages **self-correction** and reflection while reinforcing the correct pairings.

Correct Answers Only

Q1: What are the key companies that have played a significant role in the evolution of computing?
Answer: IBM, Hewlett Packard, Xerox, Apple, and Microsoft

Q2: How did computers become available to the average consumer?
Answer: Microprocessor revolutionized the way computers were used

Q3: What are the key technologies in computing?
Answer: Mobile devices, digital imaging, and machine learning

Q4: How do advances in technology affect nearly every industry?
Answer: Rapid technological change has distinct career implications, as it allows for the use of new technologies and skills in nearly every industry

Q5: What are the benefits of computing technology?
Answer: Increases efficiencies, decreases errors, opens new opportunities, and enhances business-customer relationships

Show Correct A...

What You Can Do Next

Once you've completed this challenge, you'll see the familiar **Next Step** menu, with the following options:

1. **Try Another Challenge**

- Click **Choose Try Another Challenge** in the "What would you like to do next?" section

- I recommend trying **2–3 different challenge types** to strengthen your overall understanding

2. Need a Walkthrough?

- Click **Next: Timed Question Walkthrough** to preview how the next challenge works
- This helps you understand the activity before launching it in real-time

3. Return to Real Interface

- Press **Return** to go back to the full interface and continue from wherever you'd like

As always, instructions are clearly shown on screen to help you decide your next step.

Next Step:

-  Restart Match the Answers
-  Try Another Challenge
-  Explore Another Learning Mode
-  Choose Another Chapter
-  Chat with AI Tutor
-  Check My XP Dashboard
-  View My Profile
-  Exit AI Tutor

Continue

 Great Job Completing the Match the Answers Challenge!

The Match the Answers challenge helps reinforce your learning by pairing key terms and definitions or linking related concepts. 

You've now seen how it works — and you can check your answers, get instant feedback, and even view correct pairs!

Here's what you can do next:

1. Try Another Challenge
Click "Choose Try Another Challenge" from the **What would you like to do next** section below to continue exploring. Try 2–3 types to strengthen your understanding!
2. Need a Walkthrough?
Press "Next: Timed Question Walkthrough" to preview the next challenge. You can see how all challenge types work before returning to the real interface.

Tip: This walkthrough is always accessible from the main menu.

 [Next Timed Qu...](#)

 [Return to Real ...](#)

Why This Challenge Is Helpful

This activity boosts **concept recall** while encouraging accuracy and confidence. It's especially useful when preparing for the real-world application of terms or during revision phases.

Recommendation:

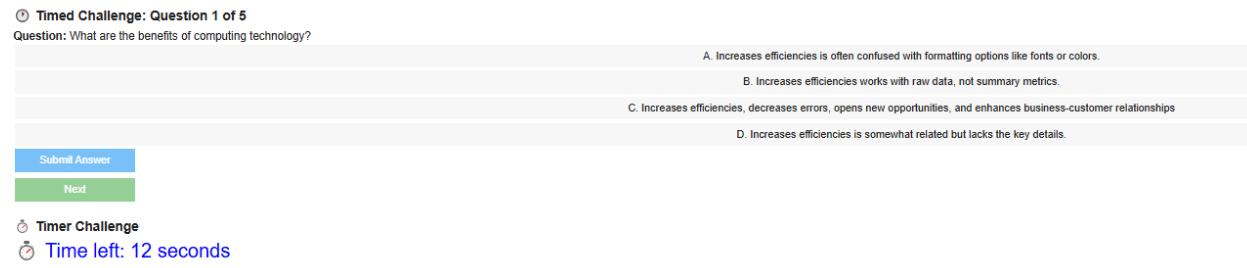
Use this challenge to practice terminology and relationships. After completing this, try one more challenge like **Timed Questions** or **Scenario-Based** for a well-rounded review.

I Selected Timed Questions – Practice Fast Recall Under Pressure

For this step, I selected **Timed Questions** from the challenge dropdown.

This challenge type is designed to **simulate real-time decision-making**. You'll be presented with a multiple-choice question and a countdown timer — encouraging you to think quickly and accurately.

All screenshots are provided below to show exactly how each screen looks, including how the timer, scoring, and navigation buttons work in each phase.

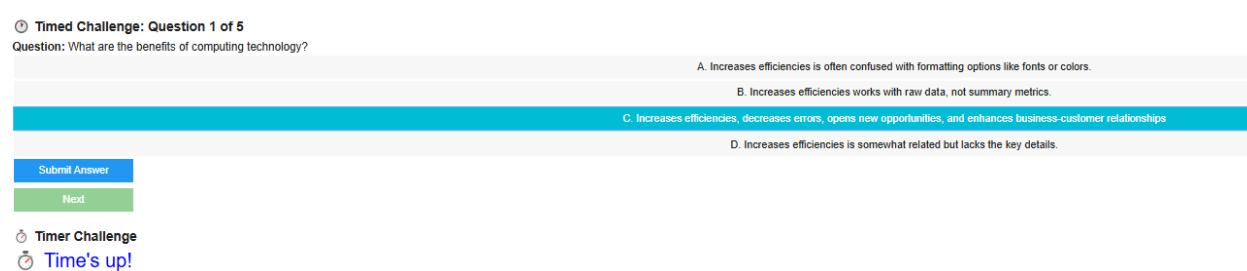


⌚ Timed Challenge: Question 1 of 5
Question: What are the benefits of computing technology?

A. Increases efficiencies is often confused with formatting options like fonts or colors.
B. Increases efficiencies works with raw data, not summary metrics.
C. Increases efficiencies, decreases errors, opens new opportunities, and enhances business-customer relationships
D. Increases efficiencies is somewhat related but lacks the key details

Submit Answer **Next**

⌚ Timer Challenge
⌚ Time left: 12 seconds



⌚ Timed Challenge: Question 1 of 5
Question: What are the benefits of computing technology?

A. Increases efficiencies is often confused with formatting options like fonts or colors.
B. Increases efficiencies works with raw data, not summary metrics.
C. Increases efficiencies, decreases errors, opens new opportunities, and enhances business-customer relationships
D. Increases efficiencies is somewhat related but lacks the key details

Submit Answer **Next**

⌚ Timer Challenge
⌚ Time's up!

How It Works

Once you start the Timed Questions challenge:

- A **multiple-choice question** is displayed on screen
- A **15-second timer** begins counting down immediately
- You must select an answer **before the timer runs out**

If the timer ends and you haven't selected an answer, it is marked incorrect automatically, and the system moves to the next question.

What Happens When You Answer

- **Correct Answer:**

- You earn **+15 XP**
- A green confirmation message appears

⌚ **Timed Challenge: Question 1 of 5**

Question: What are the benefits of computing technology?

A. Increases efficiencies is often confused with formatting options like fonts or colors.

B. Increases efficiencies works with raw data, not summary metrics.

C. Increases efficiencies, decreases errors, opens new opportunities, and enhances business-customer relationships

D. Increases efficiencies is somewhat related but lacks the key details.

Submit Answer

Correct! +15 XP

Next

- **Incorrect Answer:**

- The system marks your answer as incorrect
- The correct answer is displayed immediately in red for feedback

This immediate feedback helps you **identify gaps quickly** and adjust your understanding in real time.

⌚ **Timed Challenge: Question 2 of 5**

Question: What are the key companies that have played a significant role in the evolution of computing?

A. IBM refers to a different feature not related to this context.

B. IBM is part of data entry, not analysis.

C. IBM is often confused with formatting options like fonts or colors.

D. IBM, Hewlett Packard, Xerox, Apple, and Microsoft

Submit Answer

Incorrect. Correct answer: IBM, Hewlett Packard, Xerox, Apple, and Microsoft

Next

⌚ **Timer Challenge**

⌚ **Time left: 2 seconds**

What Happens After Each Question

After each attempt (correct or not), click the **Next** button to move on to the next timed question.

Each phase is clearly labeled and easy to navigate.

End of Challenge: What's Next?

Once you've completed the timed set, the interface presents your **Next Step options**, just like previous challenges:

1. **Try Another Challenge Type** – such as Scenario-Based or Matching

2. **Explore a Different Learning Mode** – like Business Case or Storytelling
3. **Choose Another Chapter** – to apply your skills to a new topic
4. **Restart** – if you'd like to replay the same challenge for practice

What would you like to do next?

Next Step:

-  Restart Timed Question
  Try Another Challenge
  Explore Another Learning Mode
  Choose Another Chapter
  Chat with AI Tutor
  Check My XP Dashboard
  View My Profile
  Exit AI Tutor

Continue

Great Job Trying the Timed Question Challenge!

The Timed Question challenge adds a sense of urgency by asking you to answer within a countdown — perfect for building quick recall and focus! 🕒

When you're done, or anytime during this challenge, here's what you can do next:

1. Try Another Challenge
Click "Choose Try Another Challenge" from the What would you like to do next section to explore more types. I recommend trying at least 2 to 3 to round out your learning experience.
2. Need a Walkthrough?
Press "Next: Scenario-Based Walkthrough" to preview the final challenge type. You'll see what it looks like and can always return to the real interface when ready.

Reminder: You can always return to the walkthrough from the main menu.

 [Next: Scenario....](#)  [Return to Real](#)

Why This Mode is Valuable

Timed Questions help you train your brain to **recall and respond quickly**, a skill that's essential for interviews, exams, and real-world tasks that require prompt decision-making. It's also great for reinforcing concepts you're already familiar with.

The complete set of screenshots provided shows:

- The live timer
- What happens after a correct or incorrect response
- The feedback system
- Navigation options to move forward or revisit

Recommendation:

Use this mode to test yourself after completing content-heavy modes like Storytelling or Business Case. It's a great way to review what you've learned under time pressure and ensure your understanding is solid.

I Selected Scenario-Based Challenge – Apply What You Know in Real Situations

The **Scenario-Based Challenge** is the final and most practical activity in the **Interactive Challenges** set. I selected it to apply the concepts I've learned in a real-world use case.

This mode puts you in a realistic decision-making situation, asking you to **critically evaluate the best action** to take using the knowledge from the chapter.

Screenshot below shows how the scenario, submission options, and next-step instructions appear in the interface.

■ Use Case: Applying Computing from Inception to Today in a Real-World Setting

❶ Actor: Jordan, a data analyst

❷ Goal: How did computers become available to the average consumer?

❸ Preconditions:

- Access to relevant tools/software
- Basic understanding of chapter concepts

❹ Success Path:

1. Microprocessor revolutionized the way computers were used
2. They reviewed documentation
3. Consulted with the team
4. Tested the feature before presenting

❺ Failure Possibilities:

- Skipped validation and submitted raw data
- Relied only on intuition without reviewing facts
- Shared the draft without checking for errors
- Used outdated methods instead of Excel features

❻ Success Outcome: Successful implementation of knowledge from the chapter

■ Decision Point:

What should Jordan do next to achieve their goal?

Your Choice:

Next Step:

What You'll See in This Challenge

- A character is introduced (e.g., **Jordan**, a data analyst)
- A **goal** is clearly stated (e.g., “How did computers become available to the average consumer?”)
- You’re shown:
 - **Preconditions** – Basic setup or knowledge required
 - **Success Path** – Correct steps that lead to a good outcome



- **Failure Possibilities** – Mistakes to avoid
- **Success Outcome** – What the right decisions lead to

At the bottom, you'll see a **Decision Point** asking:

"What should Jordan do next to achieve their goal?"

Use the dropdown to select an answer, then press **Submit**. If you're unsure, click **Hint** for guided help.

What Happens Next

Once you respond, the system evaluates your decision and updates your learning path.

You then see the familiar **Next Step Menu**, offering multiple paths:

- **Restart Scenario-Based Challenge**
- **Try Another Challenge**
- **Explore Another Learning Mode**
- **Choose Another Chapter**
- **Chat with AI Tutor**
- **Check My XP Dashboard**
- **View My Profile**
- **Exit AI Tutor**

You can click **Continue** after selecting one of the above.

The screenshots clearly show the options and how the interface reacts.

Next Step:

-  Restart Scenario-Based
-  Try Another Challenge
-  Explore Another Learning Mode
-  Choose Another Chapter
-  Chat with AI Tutor
-  Check My XP Dashboard
-  View My Profile
-  Exit AI Tutor

[Continue](#)

 **Great Job Exploring the Scenario-Based Challenge!**

The Scenario-Based Challenge is the final mode in your interactive challenge set. It places you in realistic situations to practice critical thinking and decision-making with helpful hints. 

You've now explored all 6 challenge types. Here's what you can do next:

1. Review XP and Progress
Click "Check My XP Dashboard" in the What would you like to do next section to see your score and challenge stats.
2. Need to Revisit?
Press "Next: XP Dashboard Walkthrough" to preview what your progress dashboard looks like and how to interpret it.

Tip: You can come back anytime to retry or explore more chapters.

 [Next: XP Dashb...](#)  [Return to Real ...](#)

Completion Confirmation

Once you finish the Scenario-Based Challenge, you'll see a message like:

 **Great Job Exploring the Scenario-Based Challenge!**

You've now explored all **6 challenge types**.

You're then prompted to:

1. **Check Your XP Dashboard** – See your challenge scores and progress
2. **View a Walkthrough of the Dashboard** – Understand what the dashboard represents and how to use it
3. **Continue to another chapter or challenge** if you wish

Why This Mode is Important

This activity brings everything together. It requires you to:

- Analyze a real-world problem
- Consider multiple paths and outcomes
- Apply what you've learned to make a sound decision

It's not just about recalling facts — it's about **demonstrating understanding in a realistic setting**.

Recommendation:

Complete the Scenario-Based Challenge after at least two other challenge types. It helps build **confidence in applying what you've learned**, not just remembering it.

XP Dashboard – See What You've Achieved

After completing your challenges — whether it's just two or all six — I recommend checking your **XP Dashboard**. This screen gives you a complete overview of your learning progress, achievements, and challenge performance.

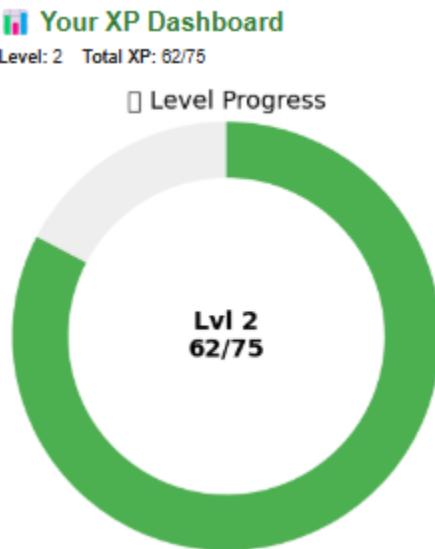
Screenshots are provided below to show exactly how each section looks.

What You'll See on the XP Dashboard

Here's what the dashboard presents:

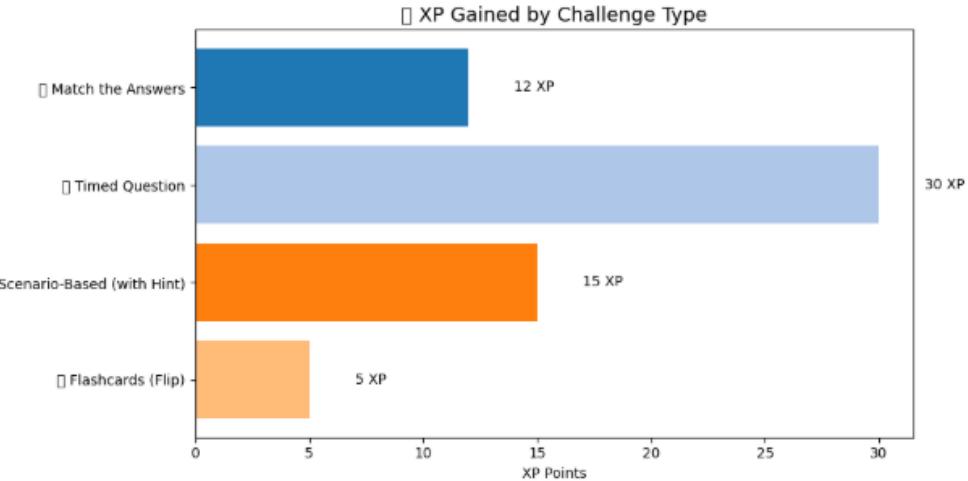
1. Level Progress Ring

- Your **current level**
- **Total XP earned**
- XP needed to reach the next level



2. XP Breakdown by Challenge Type

- A bar chart shows how much XP you've earned from each challenge (Flashcards, MCQ, Timed, etc.)
- This helps you see which challenge types you've explored most



3. XP Growth Over Time

- A line chart tracks how your XP has increased across levels
- Great for visualizing consistency in your learning

4. Challenge Activity by Level

- This view shows which types of challenges you completed at each level
- Helps identify your strengths and patterns

5. Badges Earned

- You'll see a list of badges unlocked based on your activity (e.g., "Starter," "Quiz Master," "Explorer")
- New badges are highlighted as you unlock them

Your XP Journey

Level 2 Unlocked!

XP Reached: 57 Needed: 50

Challenges Before Level-Up:

- ✓ ★ Match the Answers ✓ +12 XP
- ✓ ⏳ Timed Question ✓ +15 XP
- ✓ ⏳ Timed Question ✓ +15 XP
- ✓ 📱 Scenario-Based (with Hint) ✓ +15 XP
- ✓ 🏆 Leveled up to Level 2!

🐝 New Badge Unlocked: Starter!

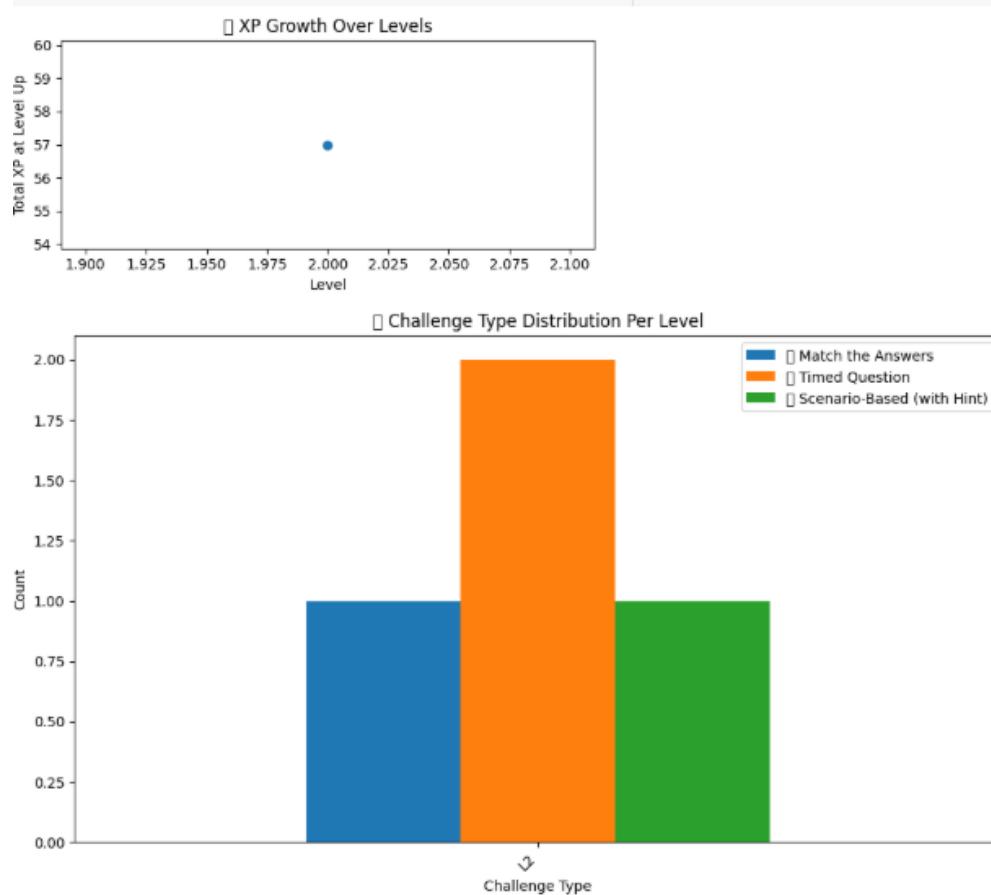
🐝 New Badge Unlocked: Rapid Learner!

Earned Badges

- 🌐 Explorer
- 🎯 Perfect Match
- 🚀 Rapid Learner
- 🏆 Starter

6. Level-Up Milestones

- Each level includes a short summary showing:
 - XP reached
 - Challenges completed
 - Key highlights that contributed to your level-up



What You Can Do Next

From the XP Dashboard, you can:

- **Return to a chapter**
- **Replay a challenge**
- **Switch to a different learning mode**
- Or continue exploring from wherever you left off

All actions are supported with clear buttons and instructions, as shown in the screenshots below.

Recommendation

After reviewing your XP Dashboard, I strongly suggest moving on to your **User Profile**.

There, you'll see:

- Your **current learning level**
- **Performance trends** over time
- A full breakdown of **completed challenges and chapters**
- Your **personal learning goals and milestones**

This will give you a complete view of how far you've come — and where to go next.

Recommendation – Next Step: View My Profile

Once you've reviewed the XP Dashboard, I **strongly recommend selecting “View My Profile”** from the **Next Step** menu. This will help you reflect on your learning journey in greater detail.

The screenshot below shows what the **Next Step options** look like, including the option to View My Profile.

Next Step:

-  Restart Profile
-  Try Another Challenge
-  Explore Another Learning Mode
-  Choose Another Chapter
-  Chat with AI Tutor
-  Check My XP Dashboard
-  View My Profile
-  Exit AI Tutor

Continue

View My Profile – See Your Full Learning Journey

After completing challenges and reviewing your XP Dashboard, I recommend viewing your **User Profile**. This screen summarizes your entire journey, showing how far you've come, which chapters you've explored, and which challenge types you've completed.



The screenshot shows the "Sravani's Profile" page. At the top, it displays the user's level (Level: 2), XP (62 / 75), and badges: Rapid Learner, Explorer, Perfect Match, and Starter. Below this is a "Chapter Progress" table:

Chapter	XP	Challenges
1.1 Computing from Inception to Today	42	3
11.3 What-If Analysis	5	1

At the bottom of the profile page, there is a "Next Step" section with the same list of options as the previous screenshot, followed by a "Continue" button.



Refer to the screenshot above to see how this screen appears in the interface.

What You'll See

At the top of your profile:

- Your **name/avatar**
- **Current level and XP** (e.g., Level 2 | XP: 62/75)
- A list of **earned badges** (like Rapid Learner, Explorer, Perfect Match)

Chapter Progress Table

You'll see a table with:

Column Description

Chapter The chapter titles you've explored

XP XP earned from each chapter

Challenges How many challenges you complete per chapter

Icons Challenge types used (e.g., Flashcards, Scenario-Based)

💡 What You Can Do Next

The **Next Step menu** below your profile gives you options to continue:

- Restart profile
- Try another challenge
- Explore a new mode
- Choose a different chapter
- Chat with AI Tutor
- Return to XP Dashboard
- Or exit the tutor system

Recommendation

Now that you've reviewed your full progress, I recommend selecting "**Chat with AI Tutor**."

This feature allows you to:

- Ask follow-up questions
- Clarify any concepts from chapters or challenges
- Get recommendations for what to do next
- Receive real-time support whenever you're unsure

Chat with Your AI Tutor – Ask Questions and Get Instant Help

This is the final part of the walkthrough — **Chat with Your AI Tutor**. After reviewing your profile, this tool allows you to interact freely with the AI by asking questions, requesting examples, or getting clarity on chapter concepts.



The screenshot above shows how this chat interface looks in real use.

What You'll See on Screen

- A clean chat window with the prompt:
"Ask a concept, request an example, or type *help* for ideas."
- A text box at the bottom labeled **"Ask me anything..."**
- A **send** button to the right
- A message at the bottom:
"Finished chatting? Click 'Return to Chapters' to restart or explore more."



You can also press Enter after typing to send a message.

Current Performance Note

Because this version is deployed inside **Google Collab** and hosted on **Github**, you may notice:

- **Slow response time** while the AI processes your query
- Occasionally, **no response appears**, or the system **stops mid-conversation**

This is normal due to limited real-time computer resources. For this walkthrough, we're using a **lighter model** just for testing purposes.

What to Do If It Freezes

If the AI stops responding or you don't see a reply:

Just ignore and choose return chapters, and then from there choose mode and exit the AI tutor there

💬 Chat with your AI Tutor

Ask a concept, request an example, or type "help" for ideas.

Tip: Press Enter or click Send.

👤 You: what is database?

🤖 Tutor is thinking...

Finished chatting? Click "Return to Chapters" to pick a new chapter or restart the guided walkthrough. You can reopen chat any time from the Next Step menu.

[⬅ Return to Chap1...](#)

When you press return to chapter like I did in the below screenshot, you see these next options where you can press exit AI tutor or close the notebook directly.

11.3 What-If Analysis

Scenario Manager and Goal Seek are part of the What-If Analysis tool group. The Scenario Manager is a tool to manage multiple scenarios for a worksheet. Goal Seek is used to set a target value for a cell by changing the values in another cell.

Next Step:

-  Restart Chapter Hub
-  Try Another Challenge
-  Explore Another Learning Mode
-  Choose Another Chapter
-  Chat with AI Tutor
-  Check My XP Dashboard
-  View My Profile
-  Exit AI Tutor

[Continue](#)

Testing Purpose and Future Plans

This AI Tutor system is currently in **testing mode** as a prototype.

We built this interface as part of a research and deployment experiment in a Colab notebook, and our goal is to eventually **host this on a public website**.

Once deployed fully:

- It will work like **ChatGPT or other AI interfaces**
- Anyone will be able to access it in a browser
- It will support **larger, more responsive models**
- Performance will improve with **dedicated backend infrastructure**

Final Note

Thank you for walking through the entire AI Tutor experience.

We've covered:

- Guided walkthroughs of each mode
- Interactive challenges
- XP tracking
- Leveling, badges, and feedback
- Real-time chat support



Your patience while testing this in Colab is appreciated. Please remember this is a **preview version**, and your feedback is valuable as we continue building this for broader use.

If you're stuck, refresh the notebook and try again. If you're ready to explore more, **return to the top and choose any chapter to restart**.

