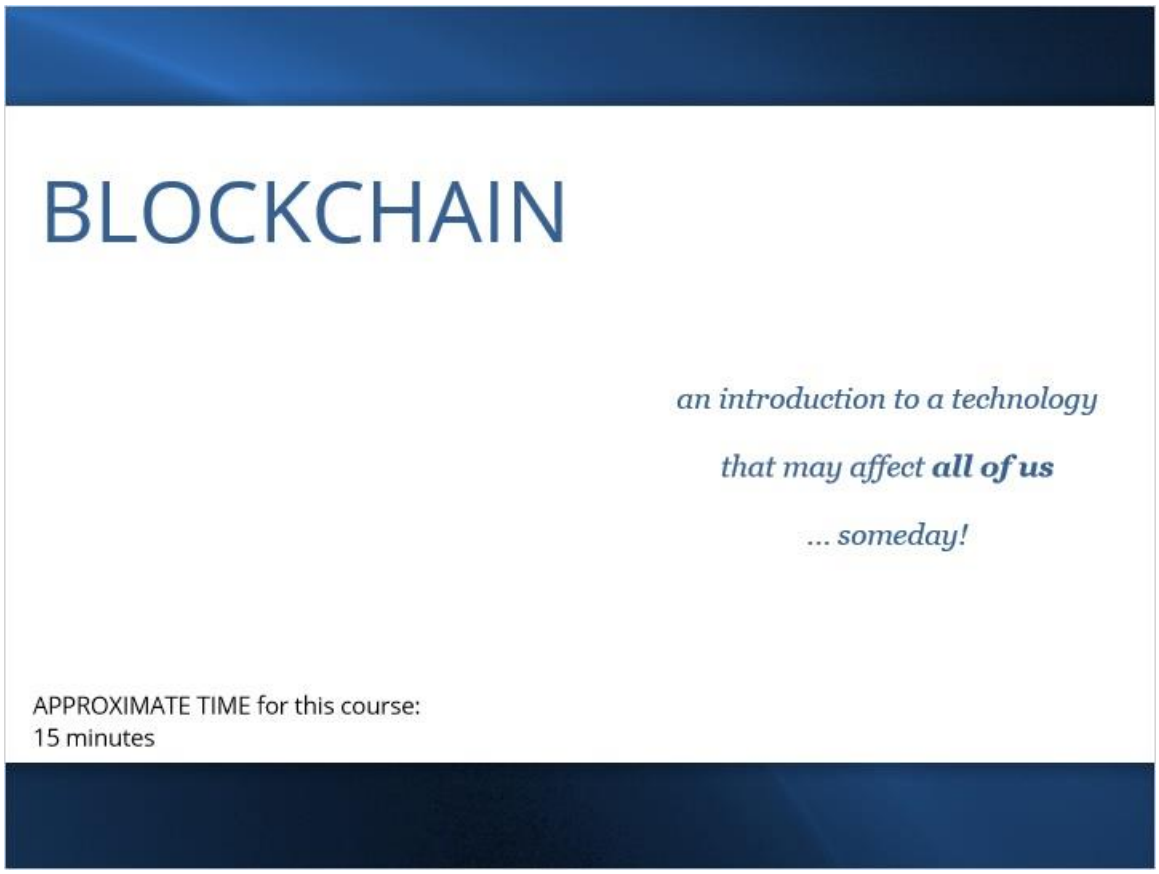
BlockChain

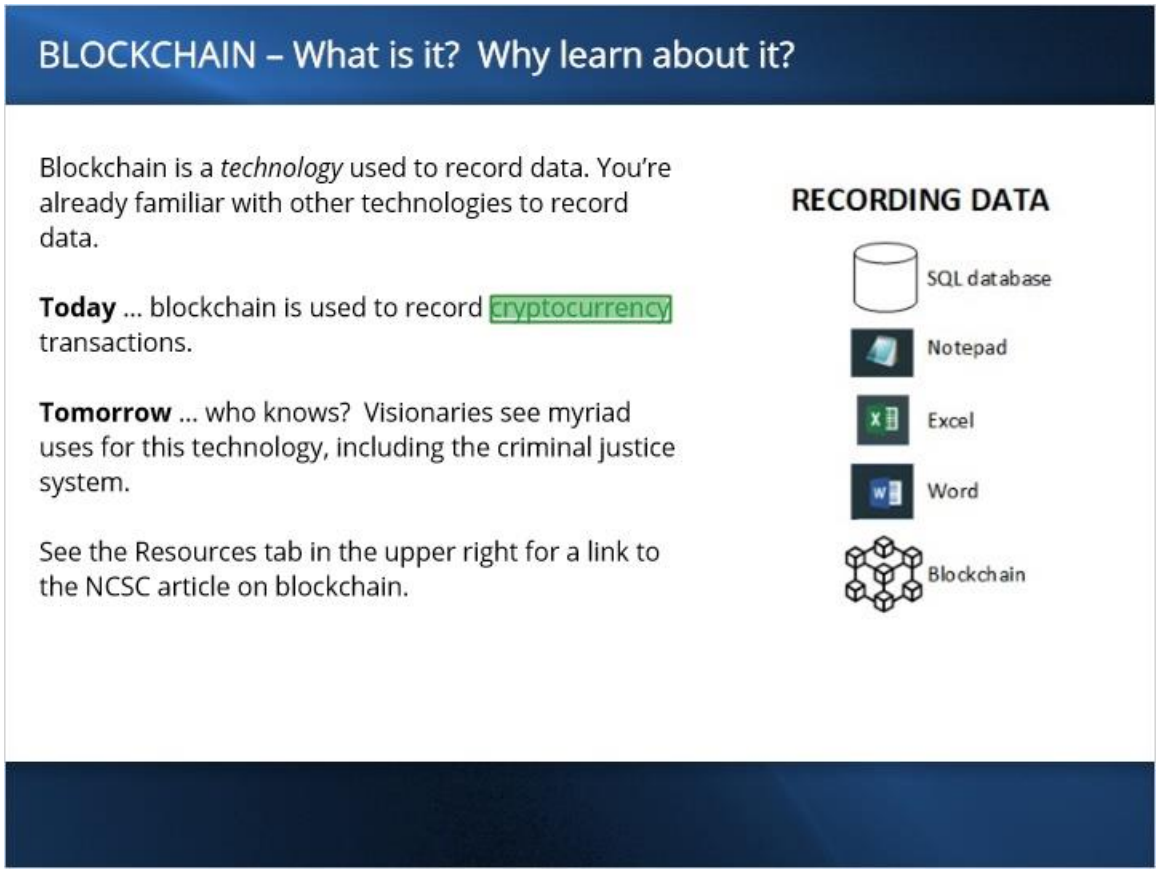
1. Introduction

1.1 Title

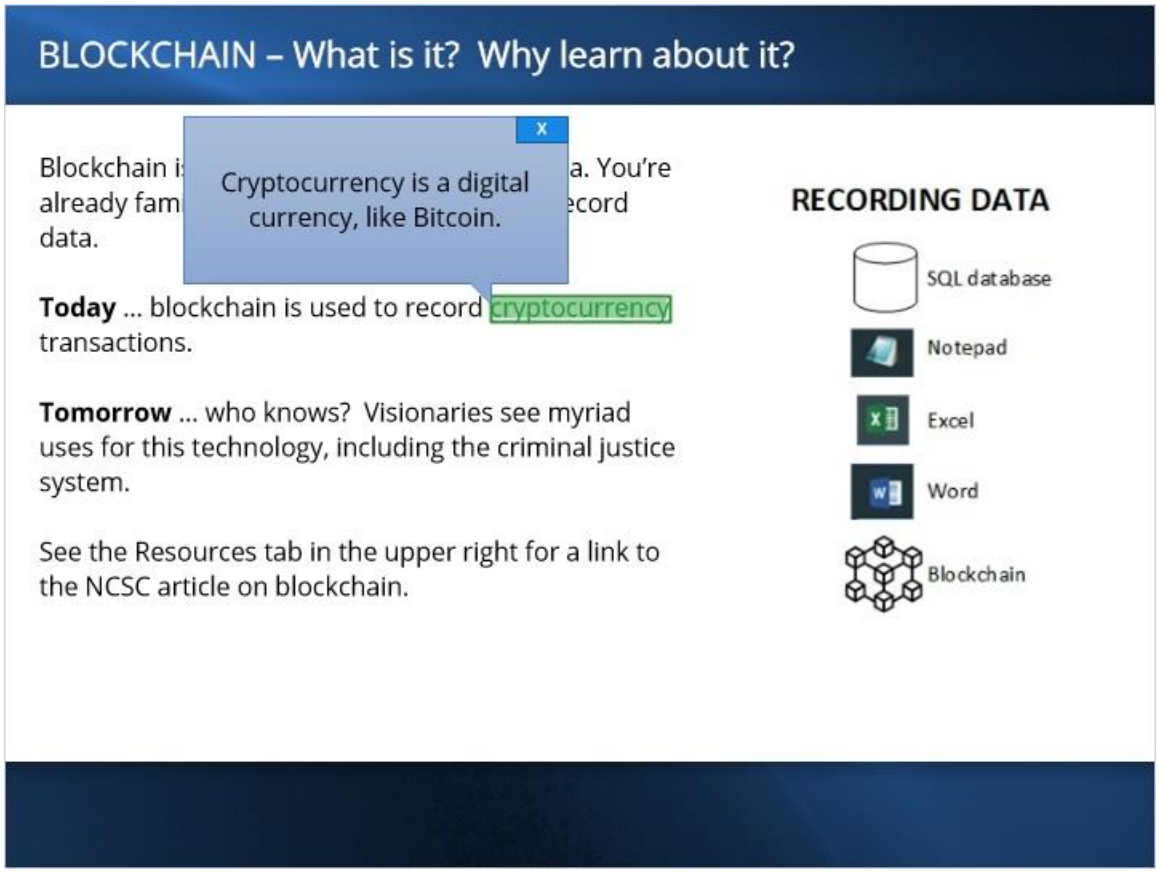


1.2 Intended Audience

1.3 Intro

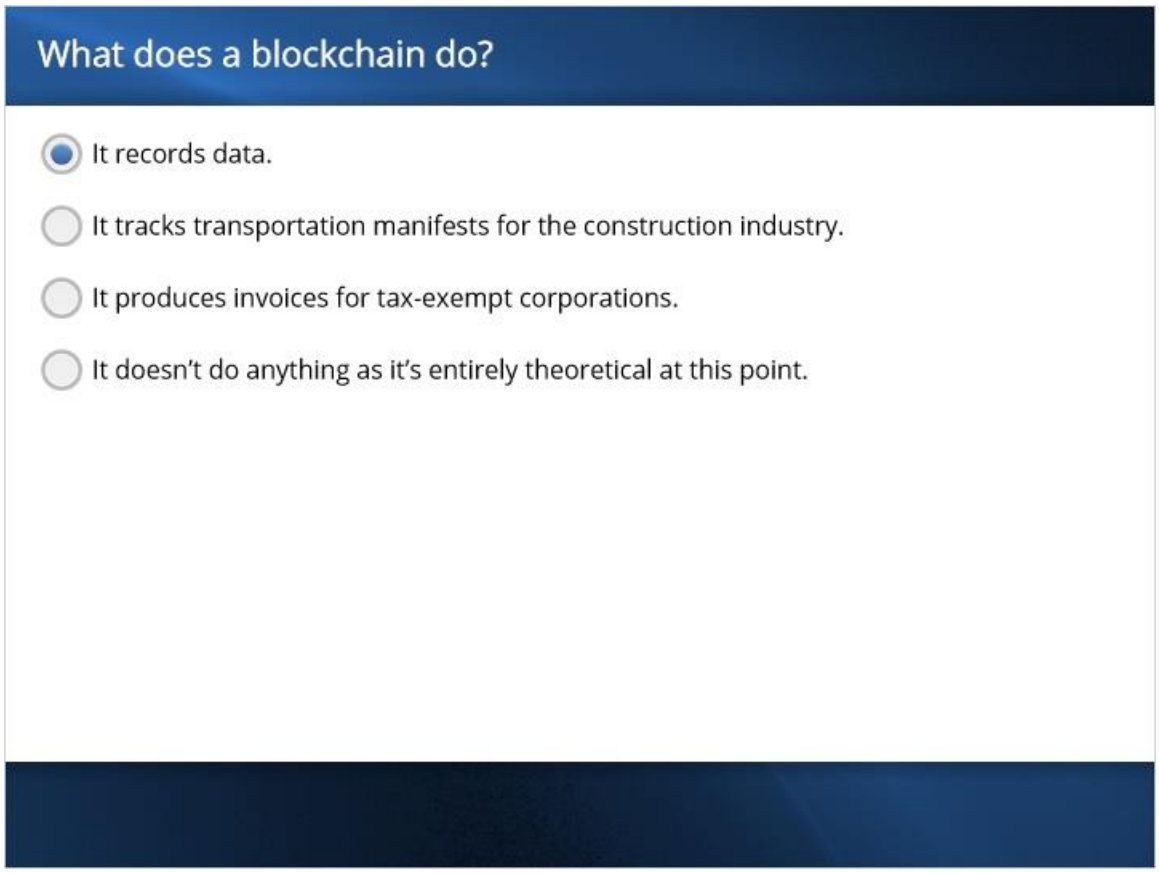

BLOCKCHAIN – What is it? Why learn about it?
Blockchain is a *technology* used to record data. You're already familiar with other technologies to record data.
Today ... blockchain is used to record cryptocurrency transactions.
Tomorrow ... who knows? Visionaries see myriad uses for this technology, including the criminal justice system.
See the Resources tab in the upper right for a link to the NCSC article on blockchain.
RECORDING DATA
SQL database
Notepad
Excel
Word
Blockchain

Cryptocurrency (Slide Layer)



1.4 What does a blockchain do?

(Multiple Choice, 10 points, 1 attempt permitted)



Correct	Choice
X	It records data.
	It tracks transportation manifests for the construction industry.
	It produces invoices for tax-exempt corporations.
	It doesn't do anything as it's entirely theoretical at this point.

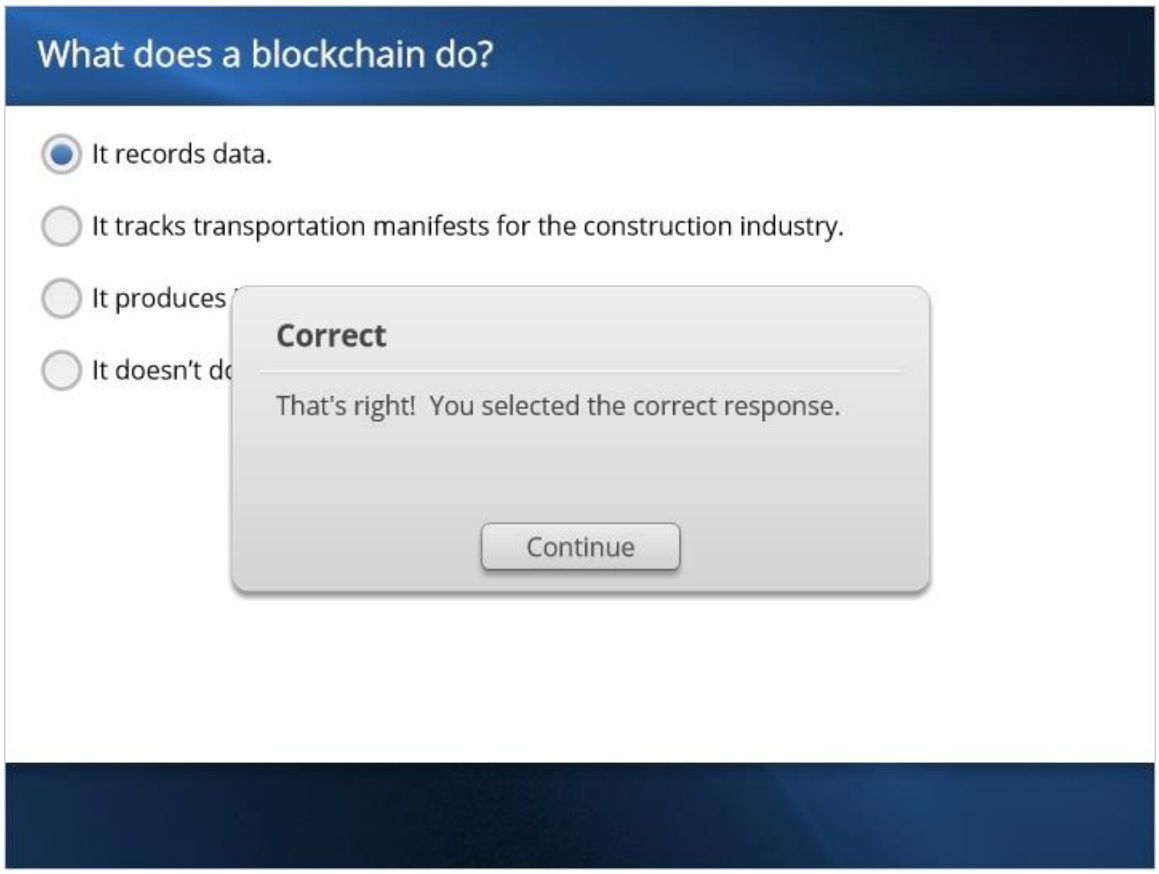
Feedback when correct:

That's right! You selected the correct response.

Feedback when incorrect:

You did not select the correct response.

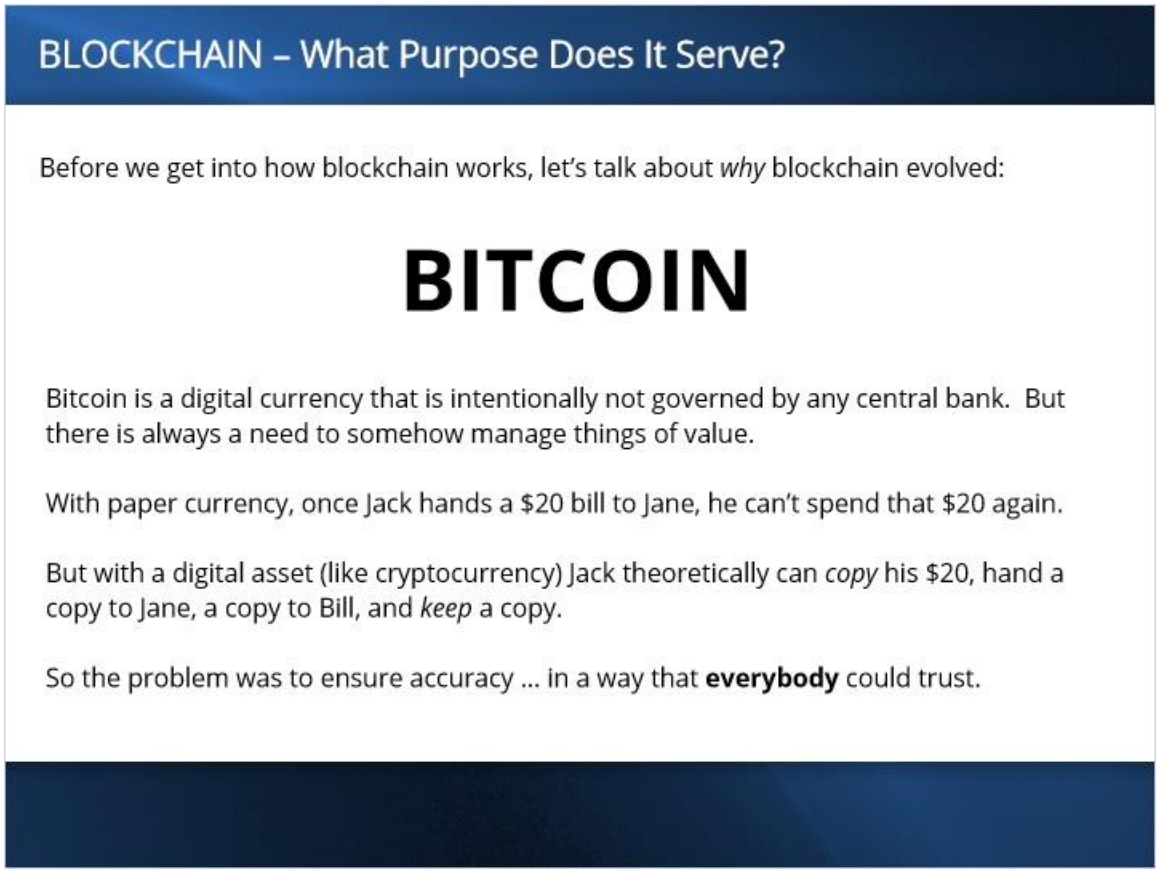
Correct (Slide Layer)



Incorrect (Slide Layer)

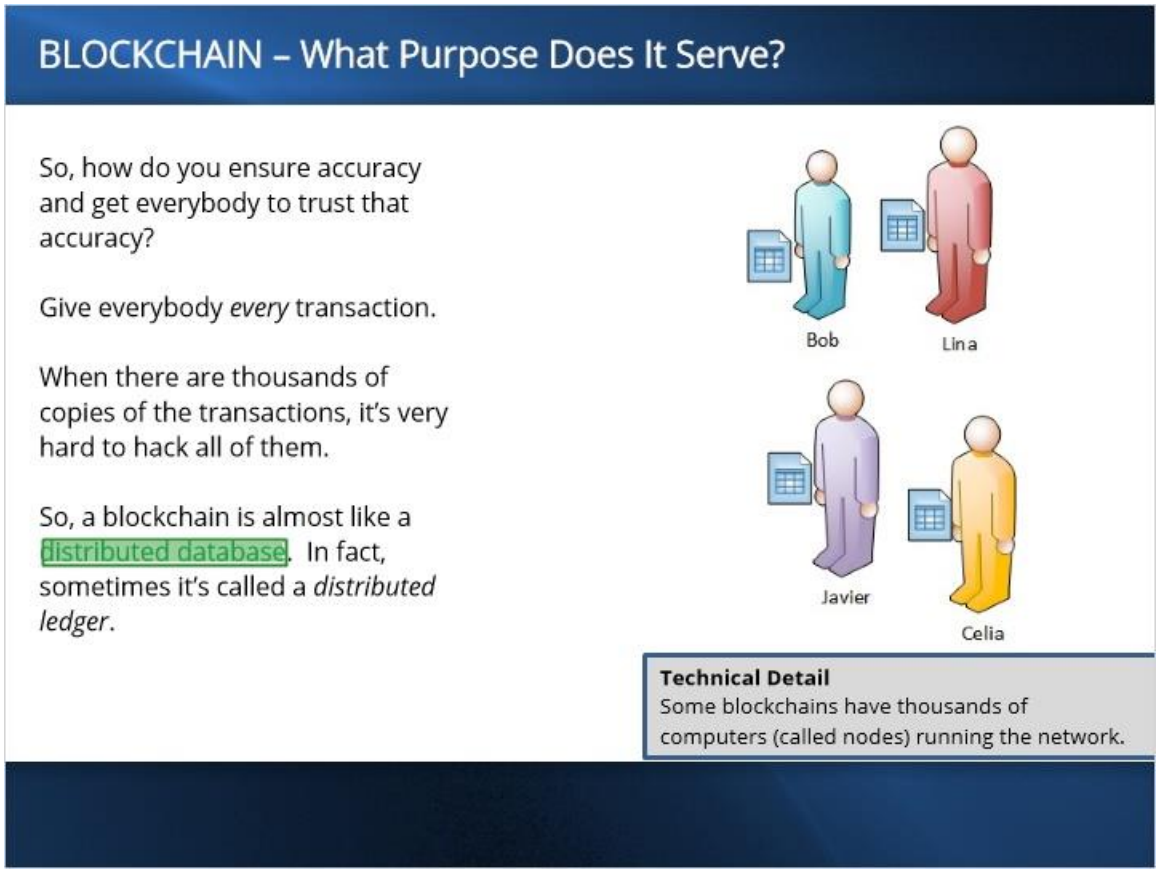
2. Why Blockchain?

2.1 Purpose



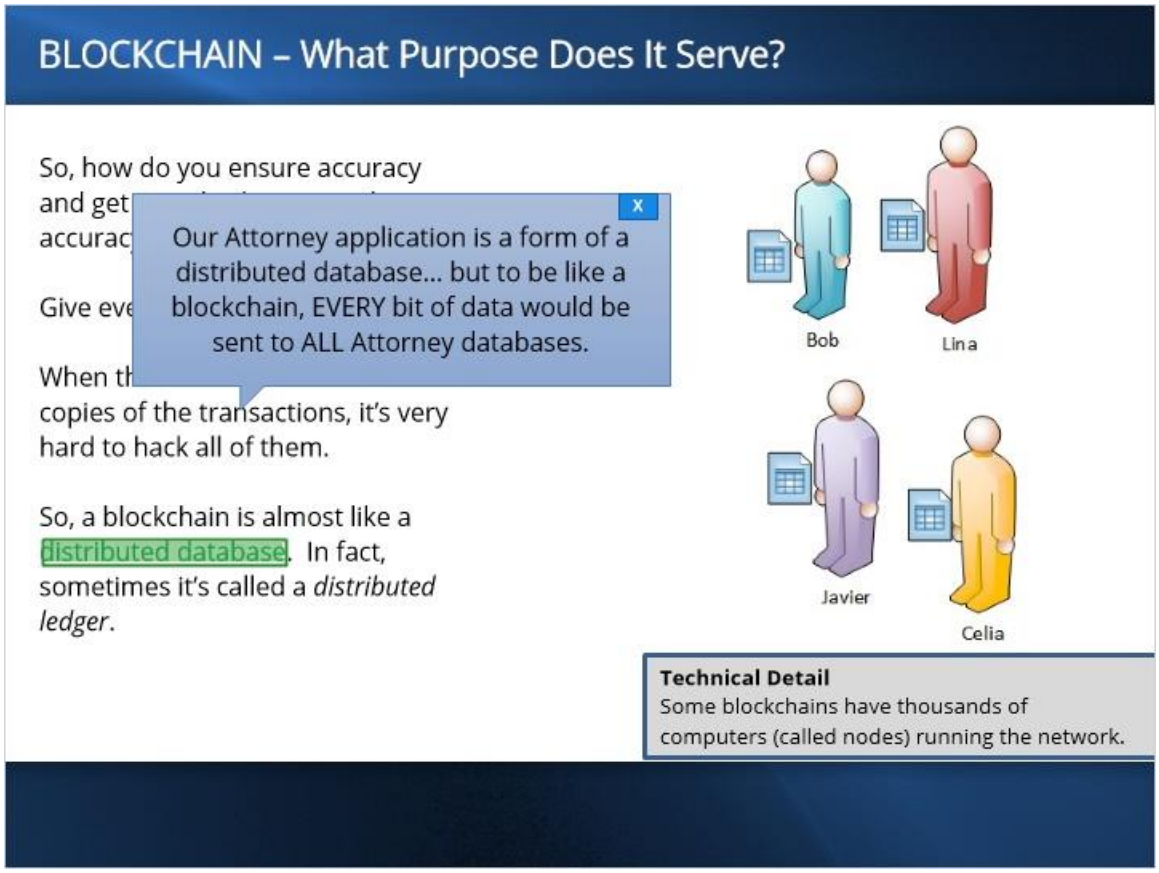
Notes:

2.2 Trust



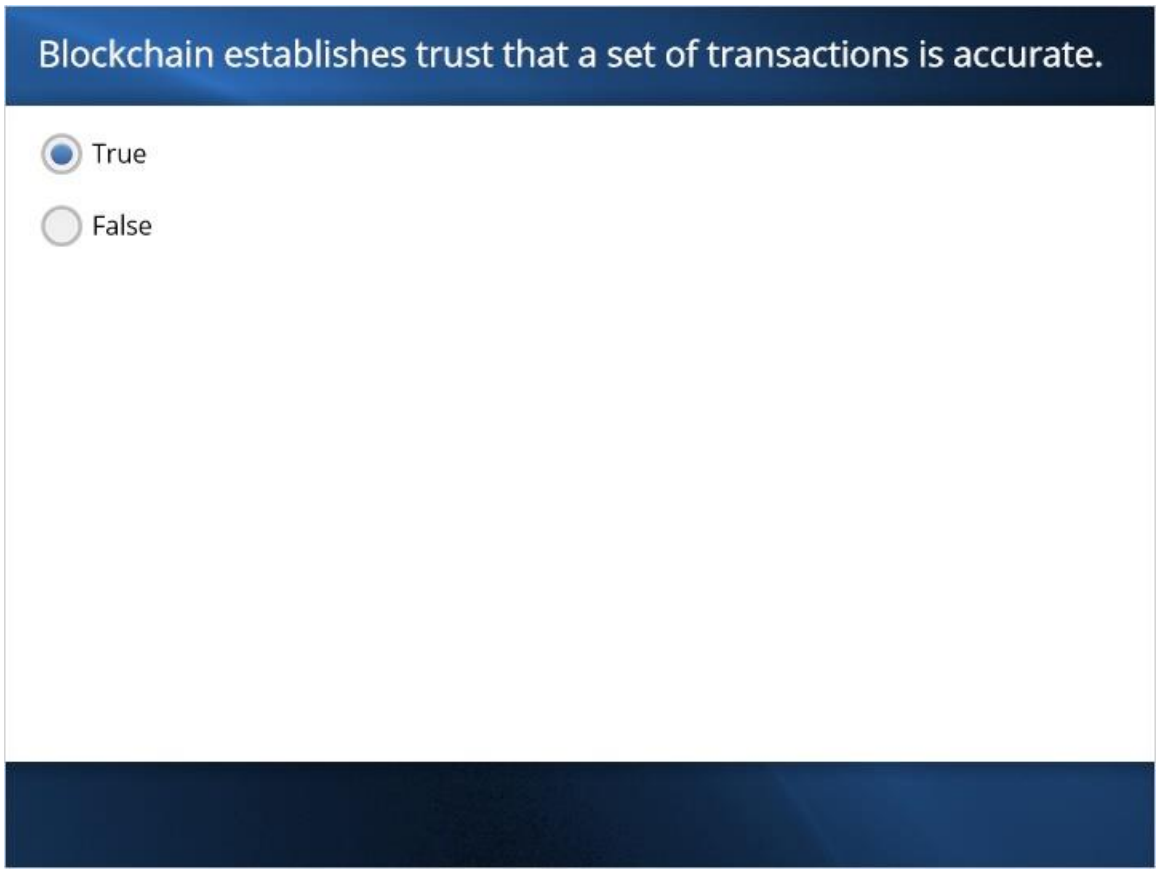
Notes:

Distributed Ledger (Slide Layer)



2.3 Question

(True/False, 10 points, 1 attempt permitted)



Correct	Choice
X	True
	False

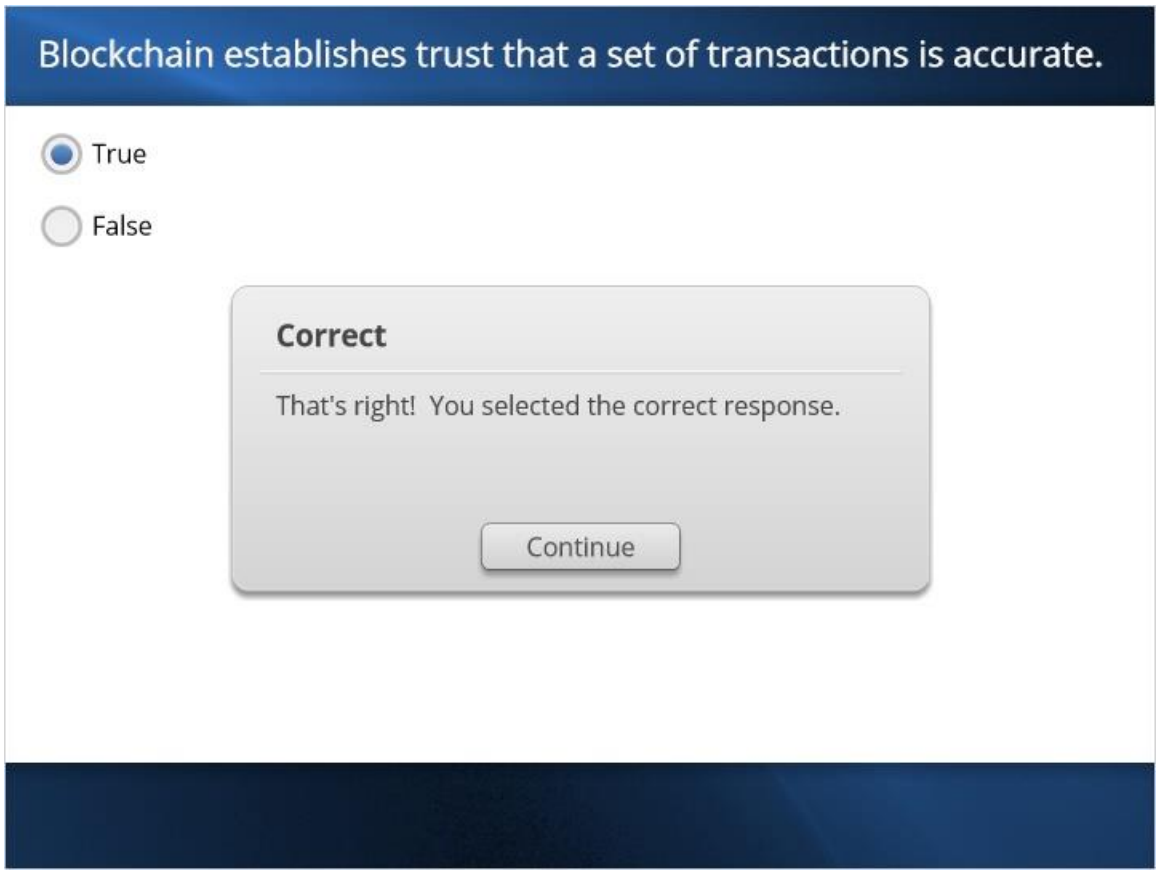
Feedback when correct:

That's right! You selected the correct response.

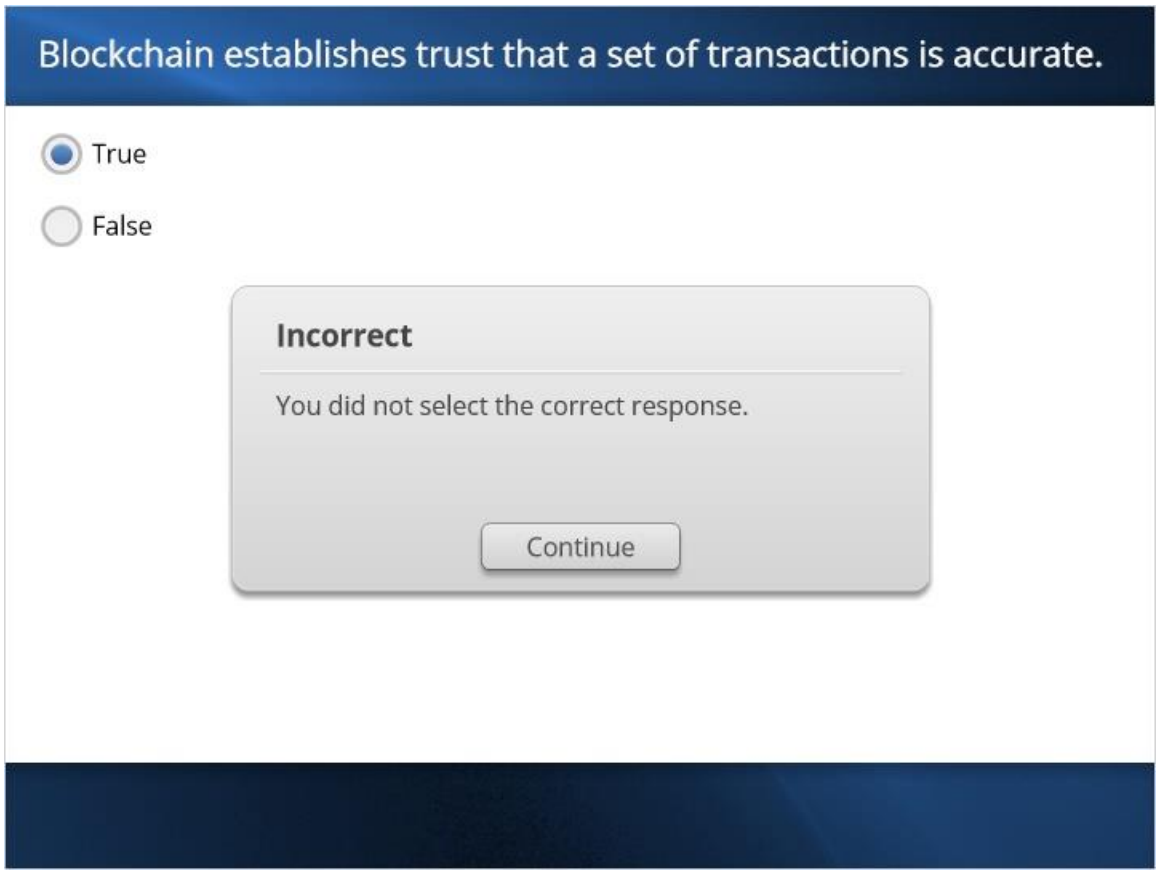
Feedback when incorrect:

You did not select the correct response.

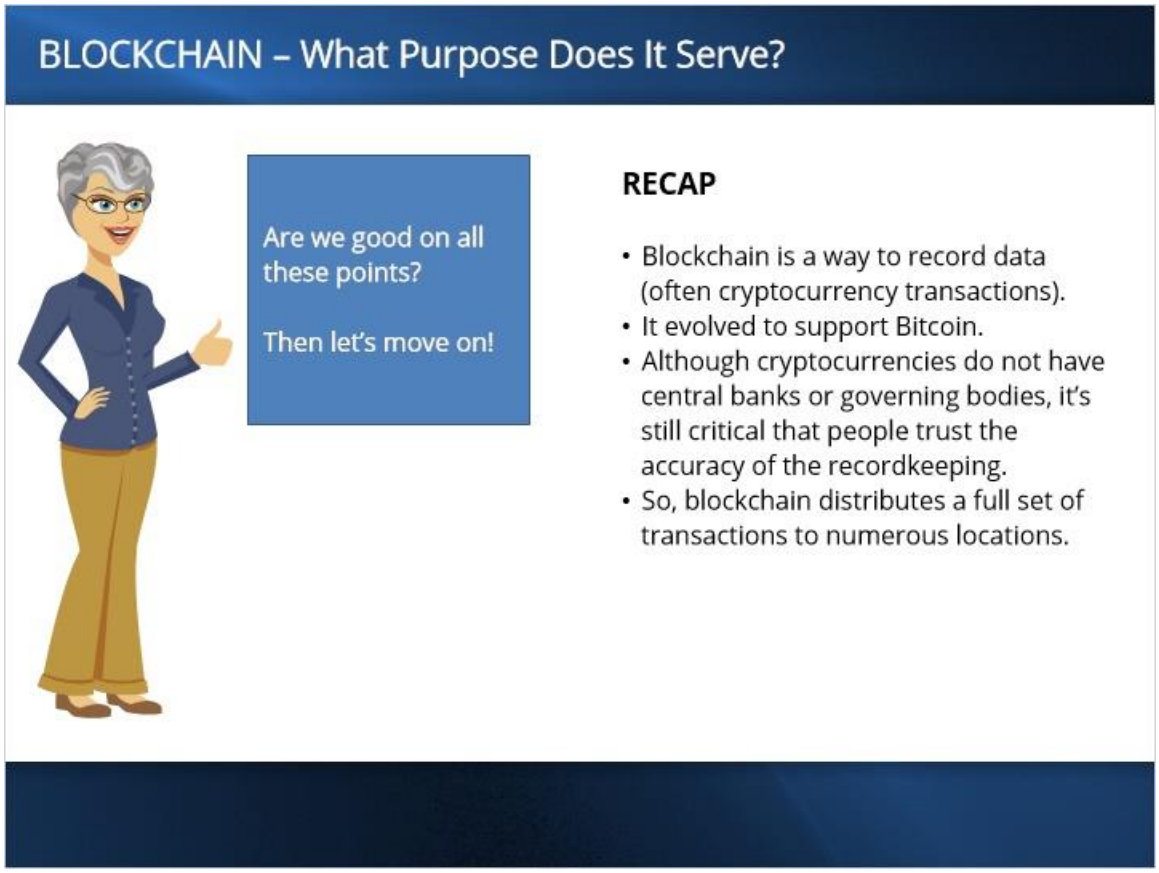
Correct (Slide Layer)



Incorrect (Slide Layer)

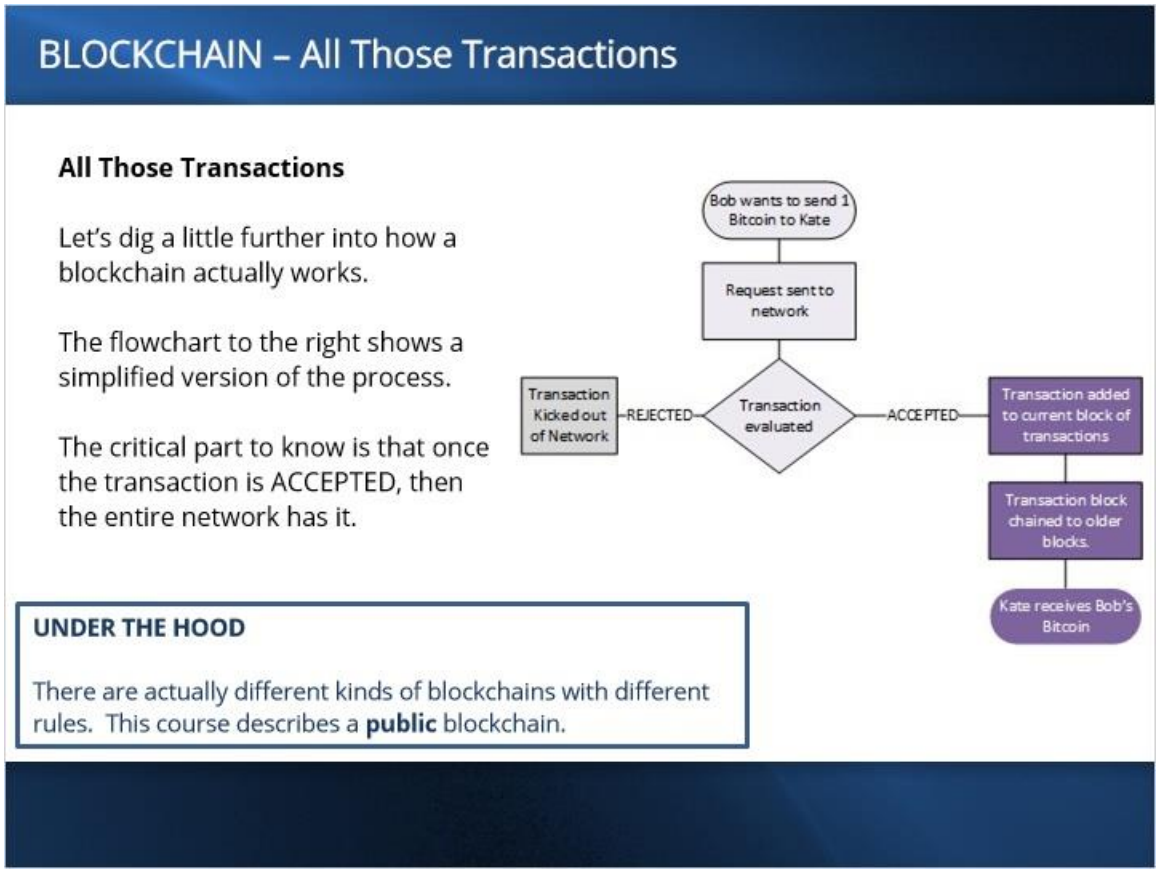


2.4 RECAP


BLOCKCHAIN – What Purpose Does It Serve?
Are we good on all these points?
Then let's move on!
RECAP
• Blockchain is a way to record data (often cryptocurrency transactions).
• It evolved to support Bitcoin.
• Although cryptocurrencies do not have central banks or governing bodies, it's still critical that people trust the accuracy of the recordkeeping.
• So, blockchain distributes a full set of transactions to numerous locations.

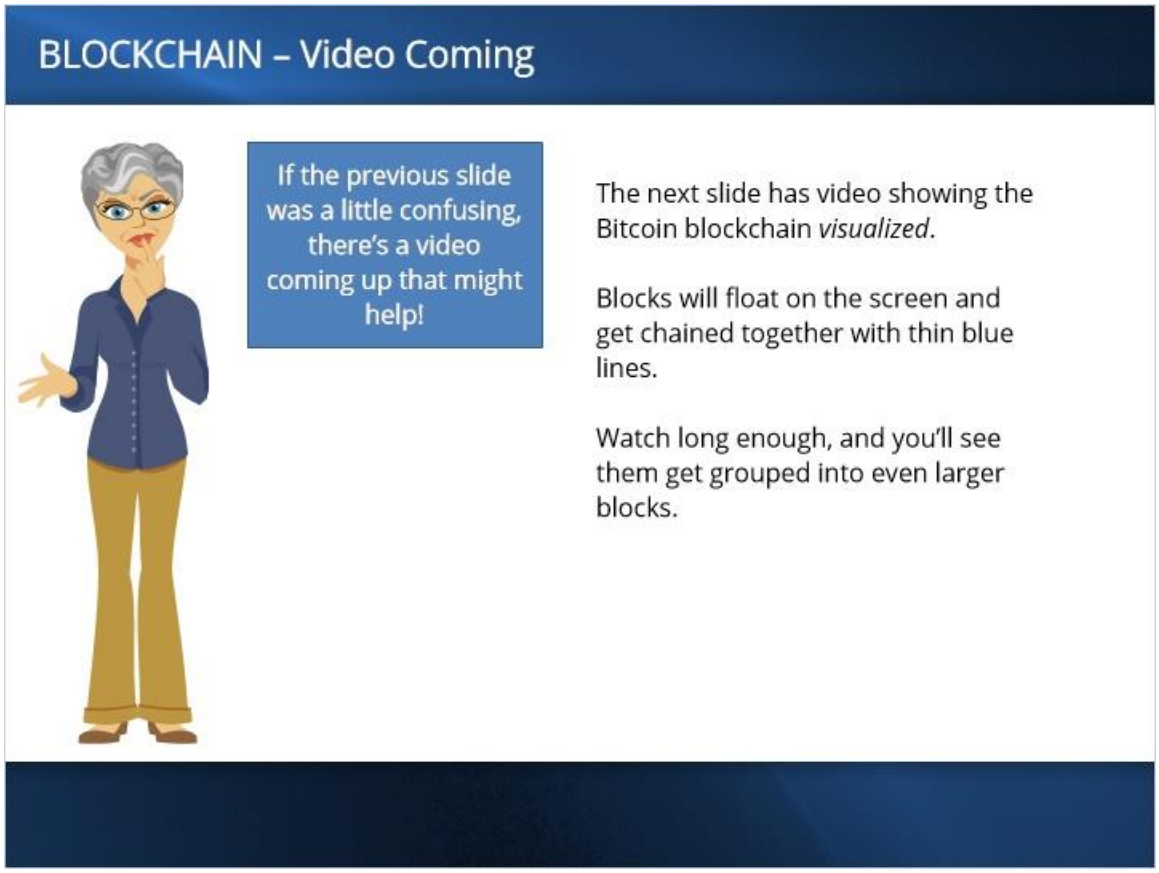
3. Blockchain in Action

3.1 All Those Transactions

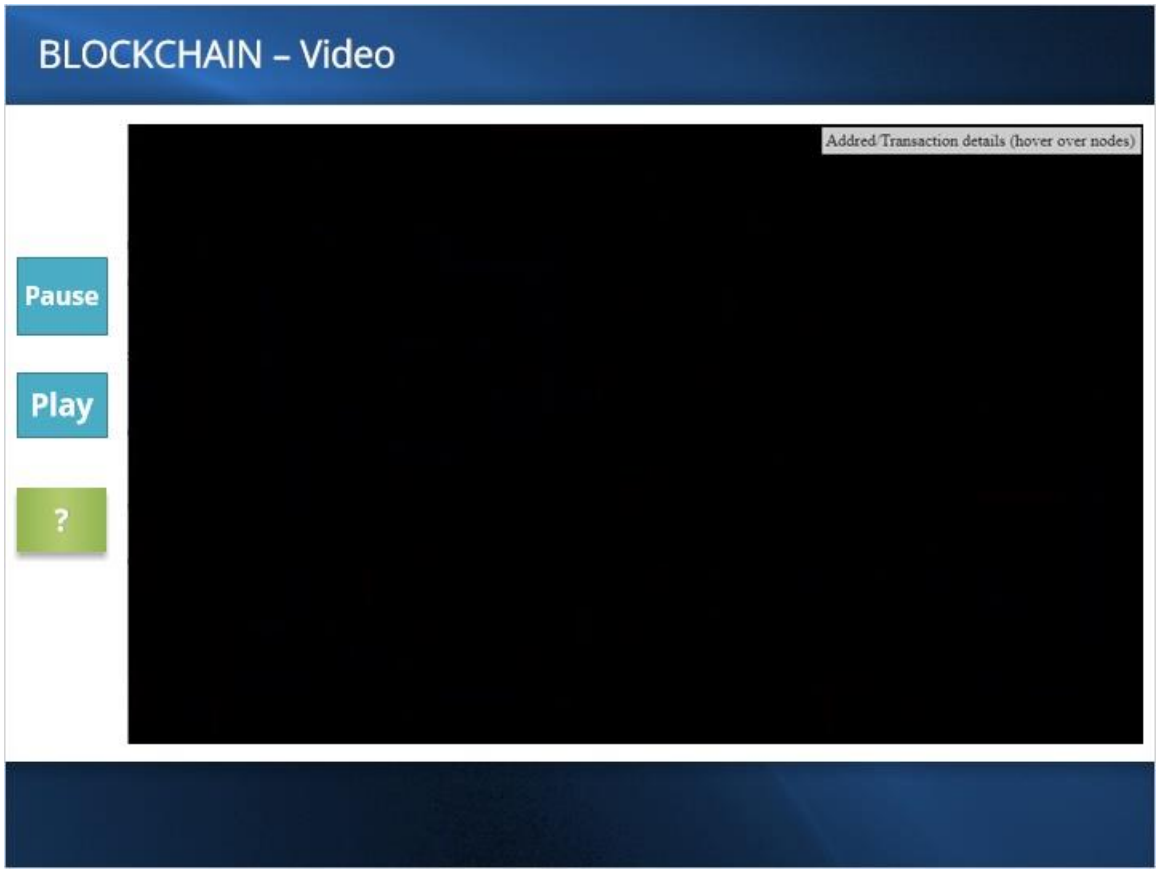


Notes:

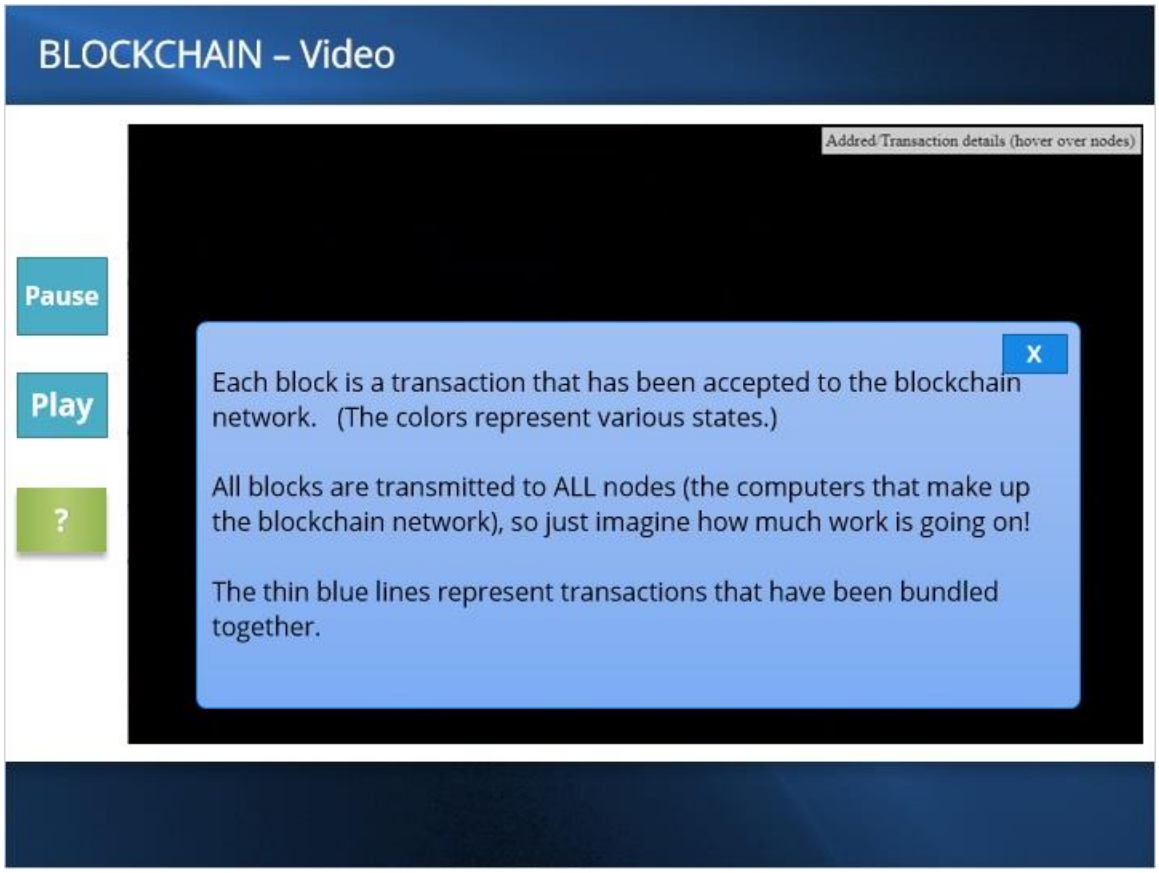
3.2 Explain the Video



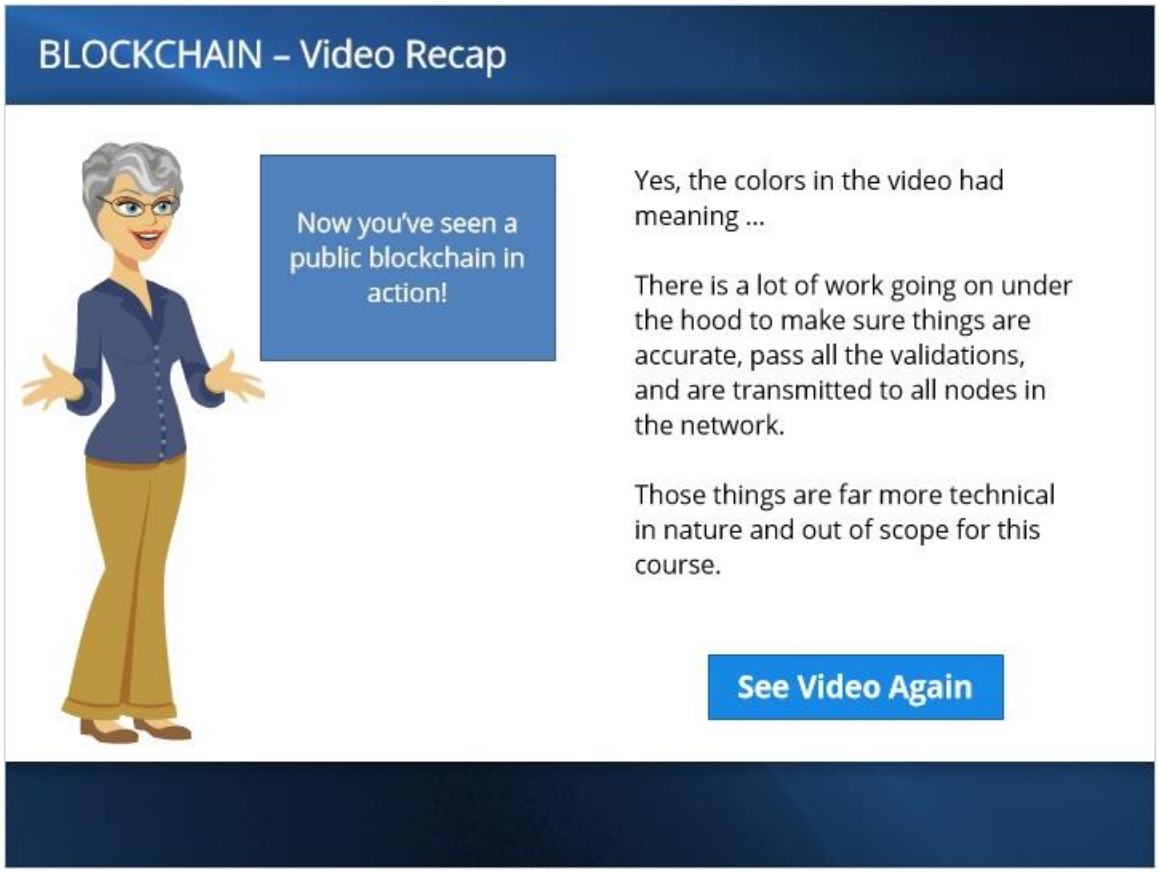
3.3 See it in Action



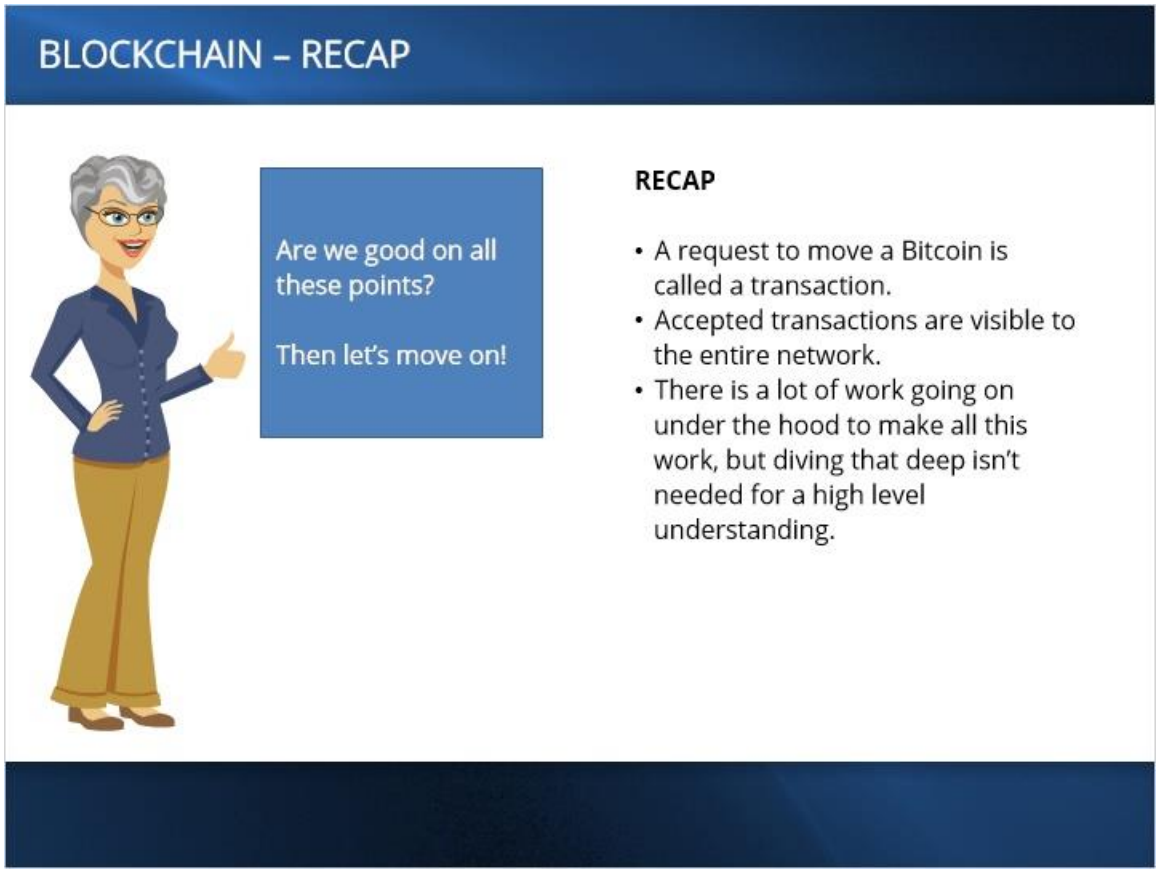
Explanation (Slide Layer)



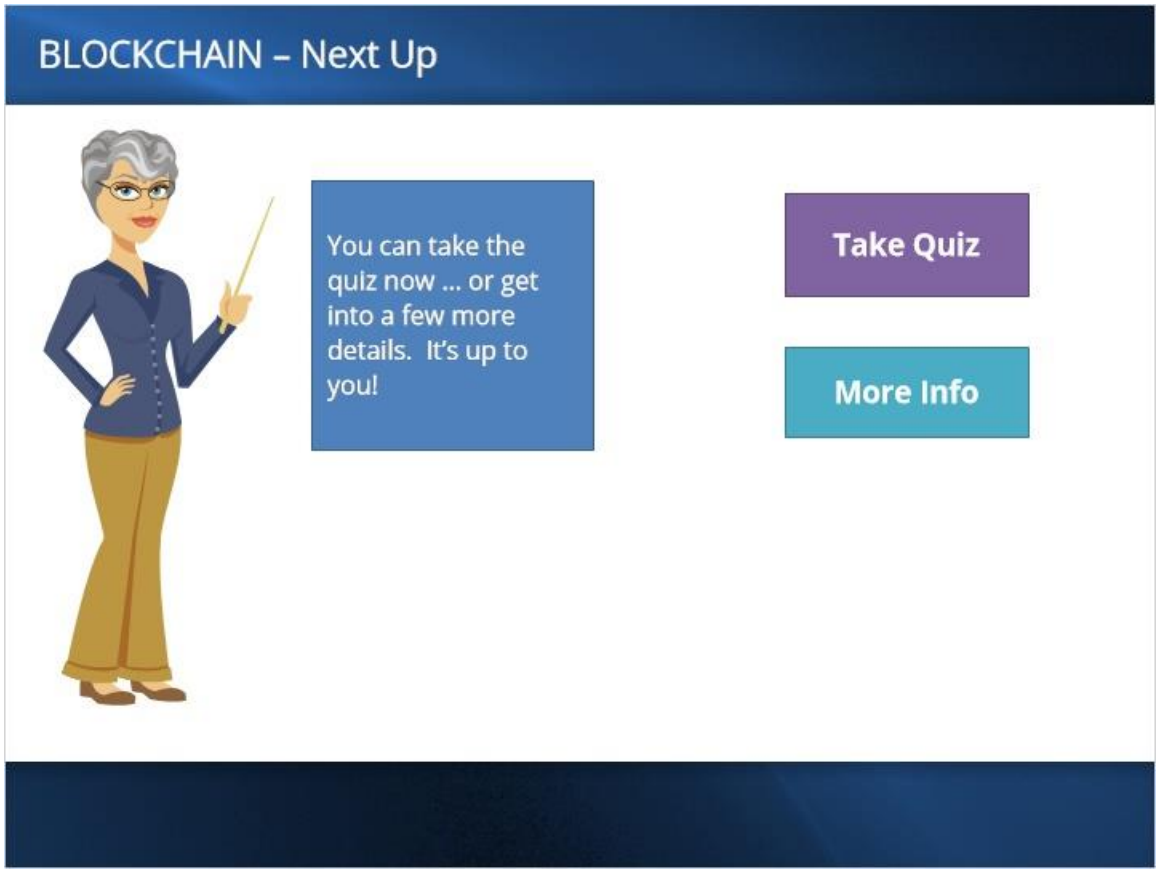
3.4 More on the Video



3.5 RECAP

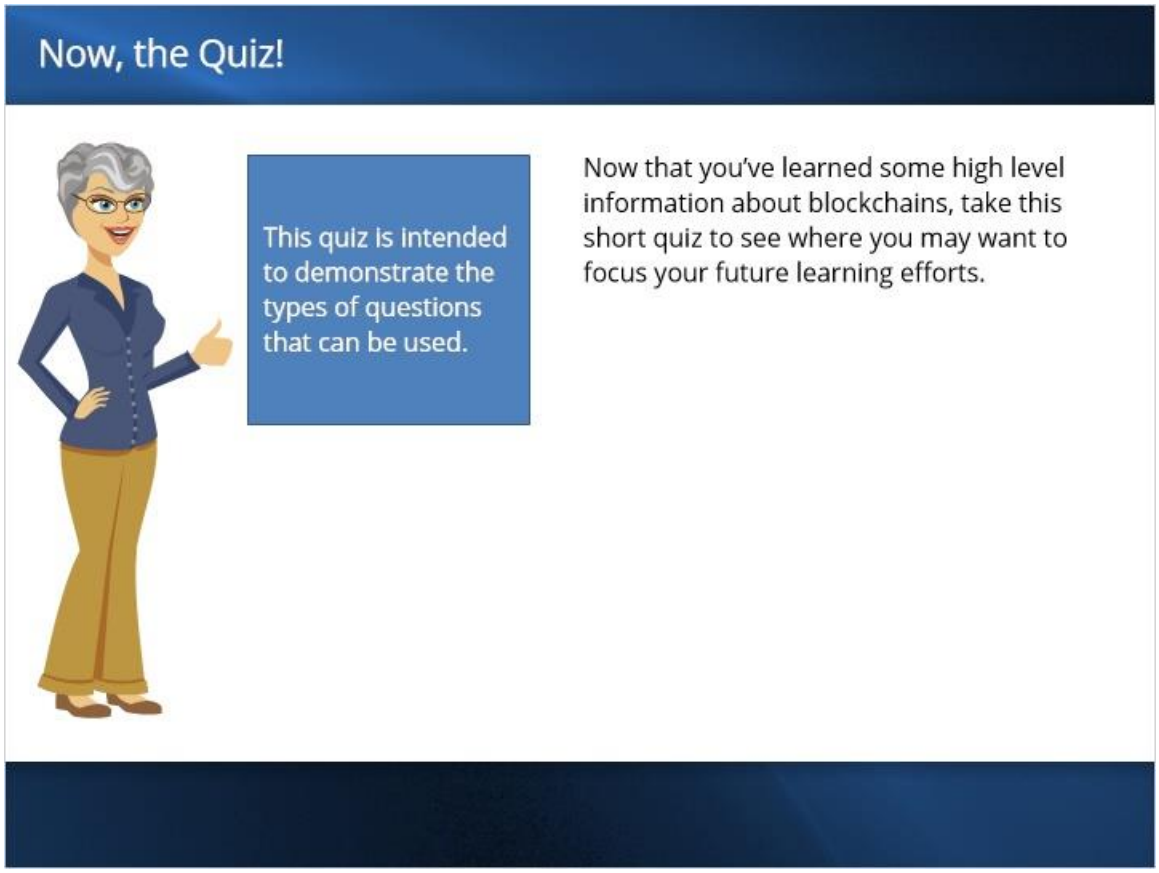

BLOCKCHAIN – RECAP
Are we good on all these points?
Then let's move on!
RECAP
• A request to move a Bitcoin is called a transaction.
• Accepted transactions are visible to the entire network.
• There is a lot of work going on under the hood to make all this work, but diving that deep isn't needed for a high level understanding.

3.6 Decision


BLOCKCHAIN – Next Up
You can take the quiz now ... or get into a few more details. It's up to you!
Take Quiz
More Info

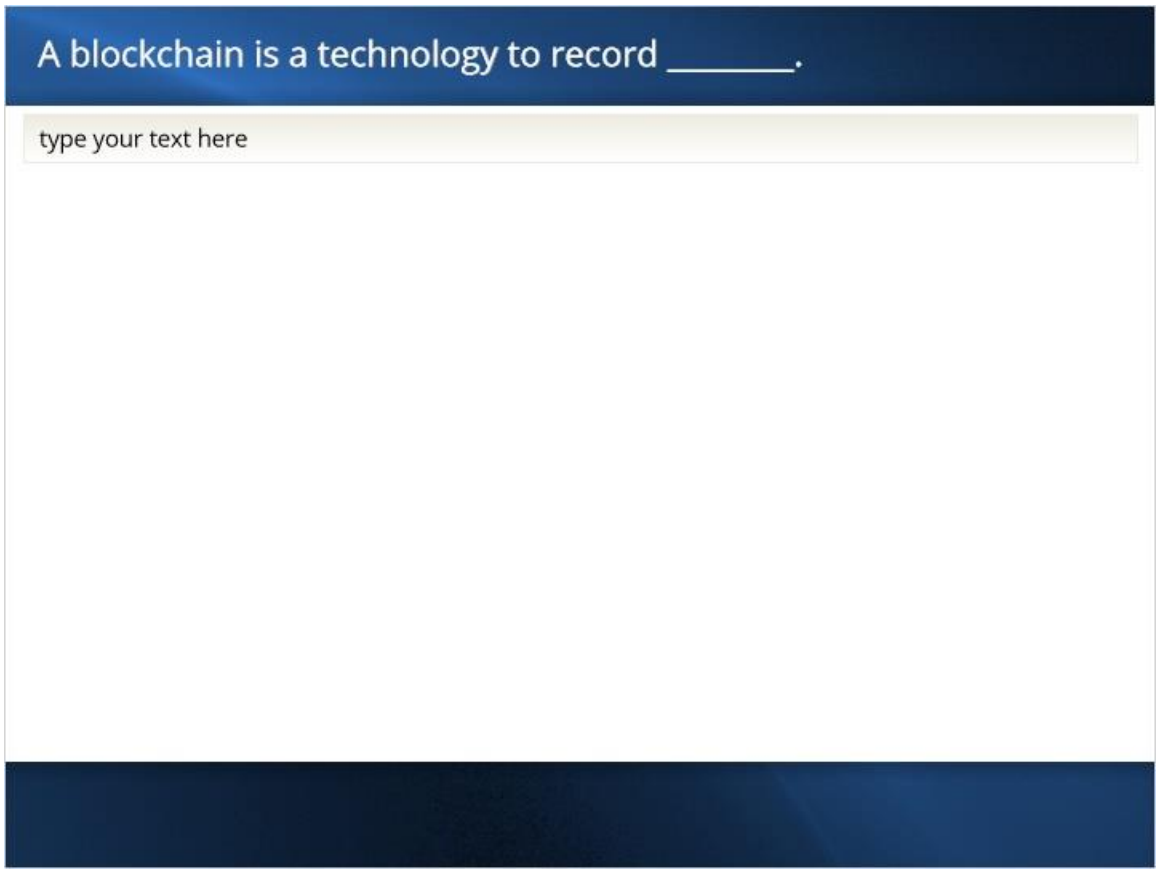
4. Quiz

4.1 Now, the Quiz!



4.2 A blockchain is a technology to record _____.

(Fill-in-the-Blank, 10 points, 1 attempt permitted)



Choice
data
information
transactions

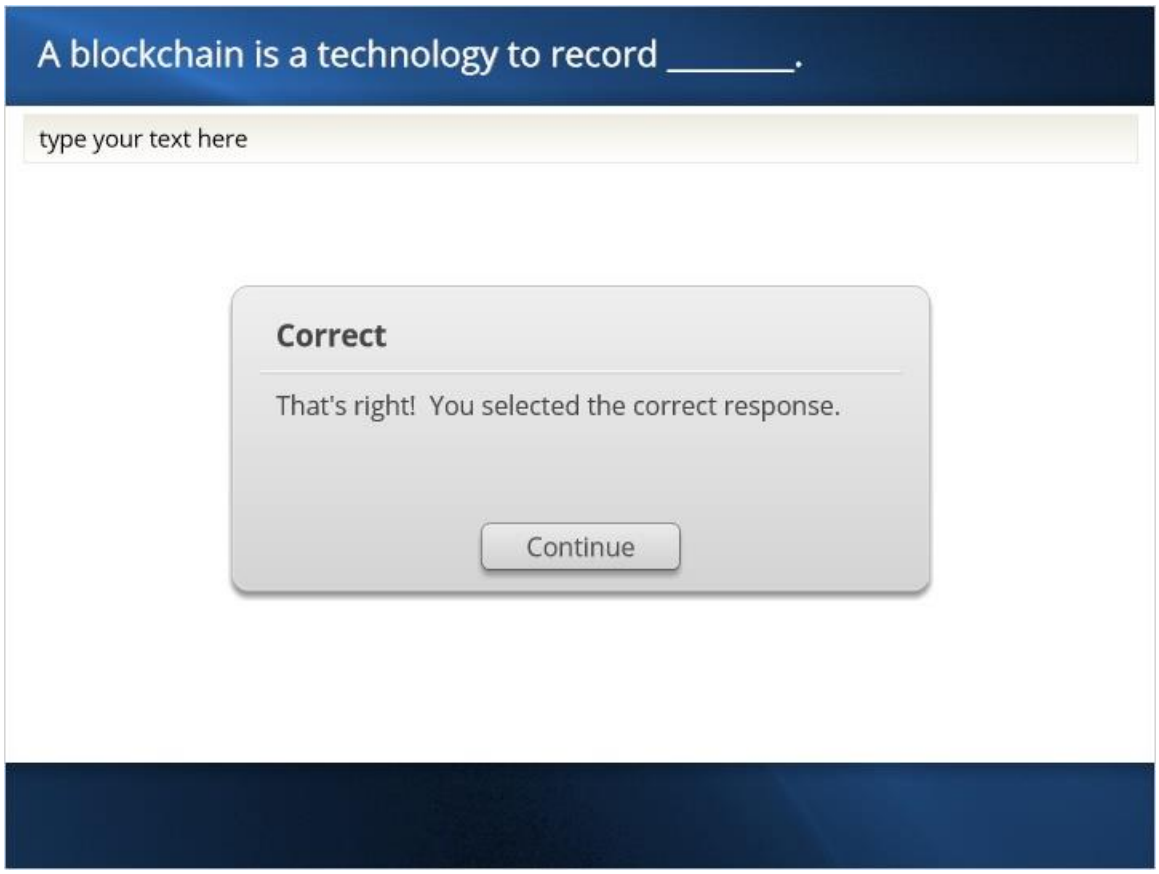
Feedback when correct:

That's right! You selected the correct response.

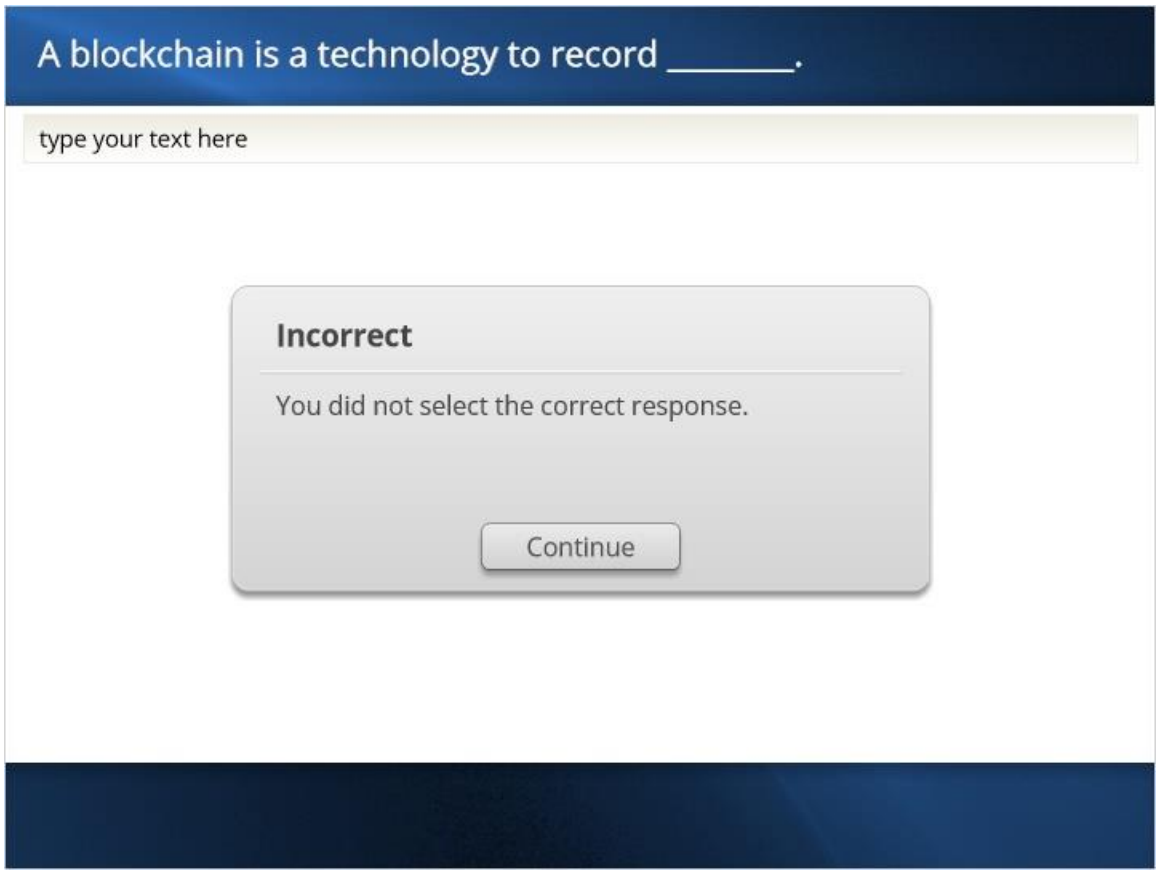
Feedback when incorrect:

You did not select the correct response.

Correct (Slide Layer)

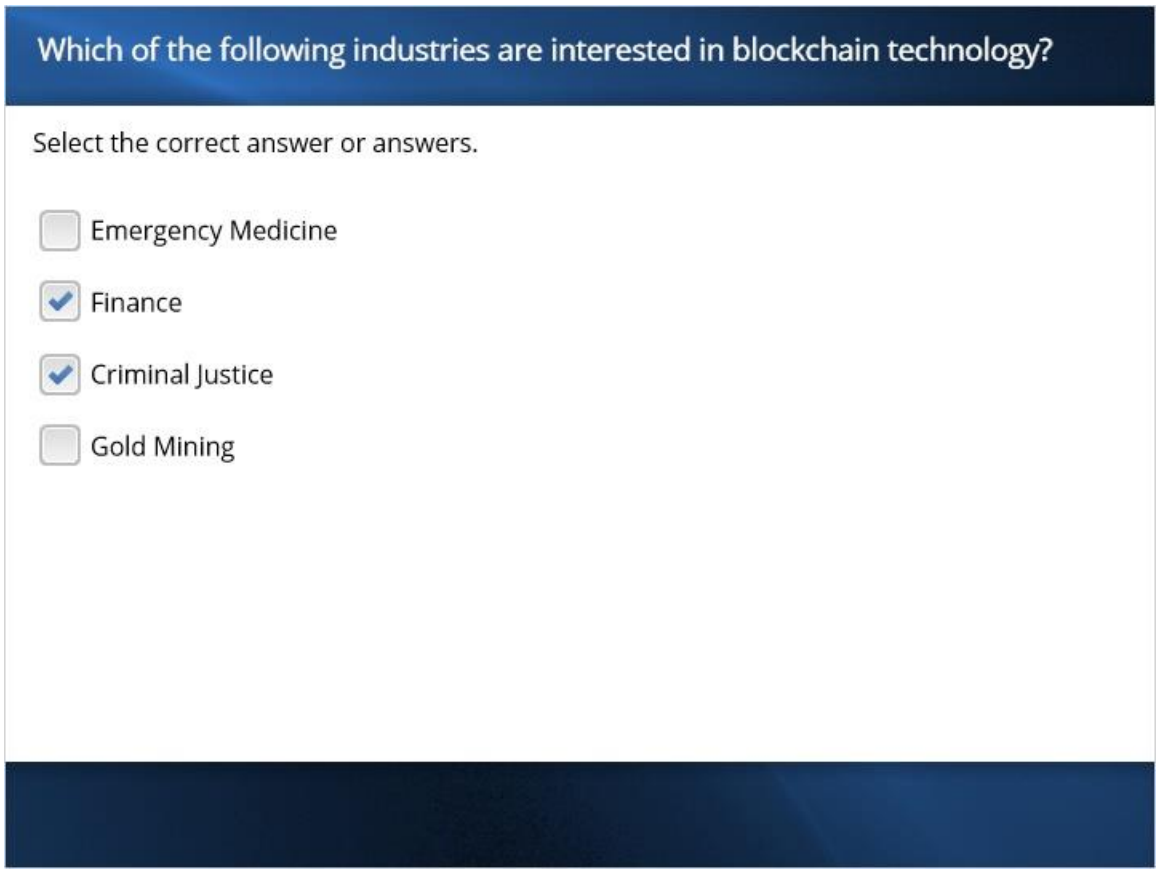


Incorrect (Slide Layer)



4.3 Which of the following industries are interested in blockchain technology?

(Multiple Response, 10 points, 1 attempt permitted)



Correct	Choice
	Emergency Medicine
X	Finance
X	Criminal Justice
	Gold Mining

Feedback when correct:

That's right! You selected the correct response.

Feedback when incorrect:

You did not select the correct response.

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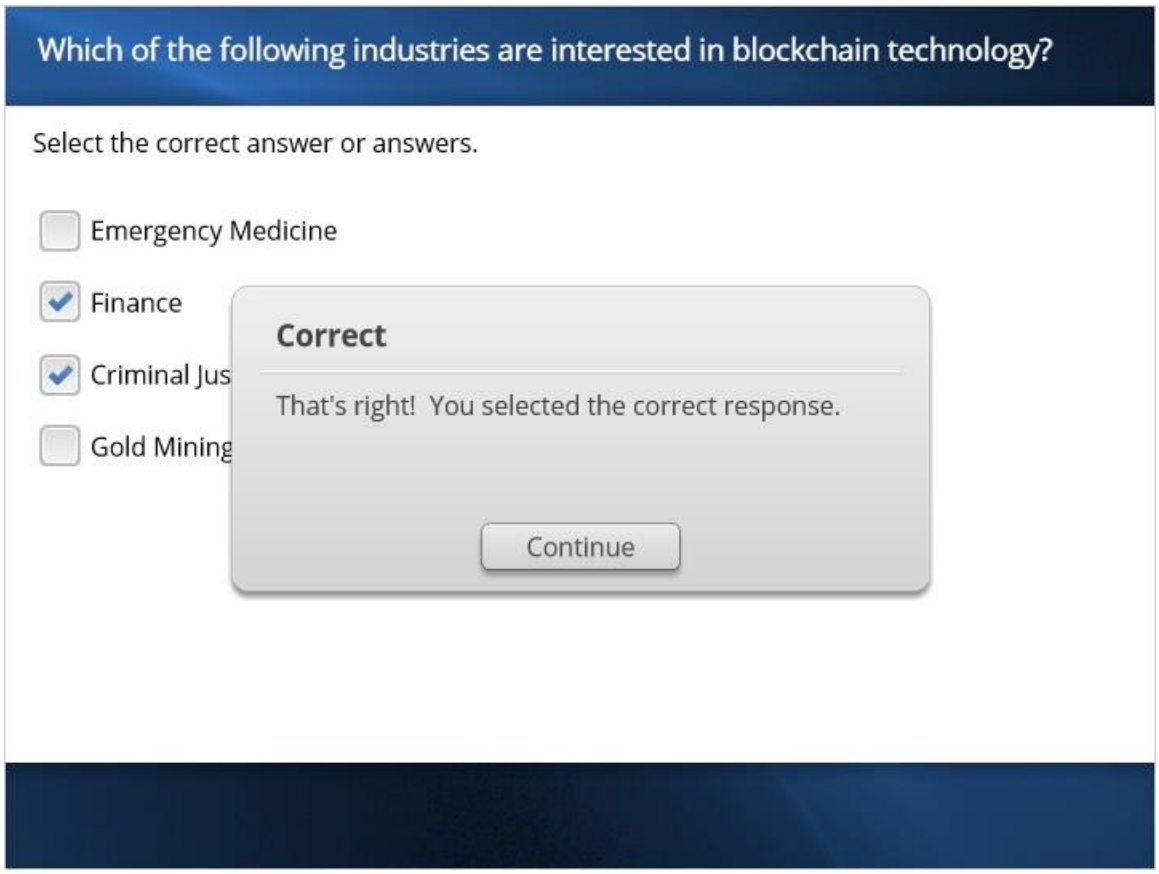
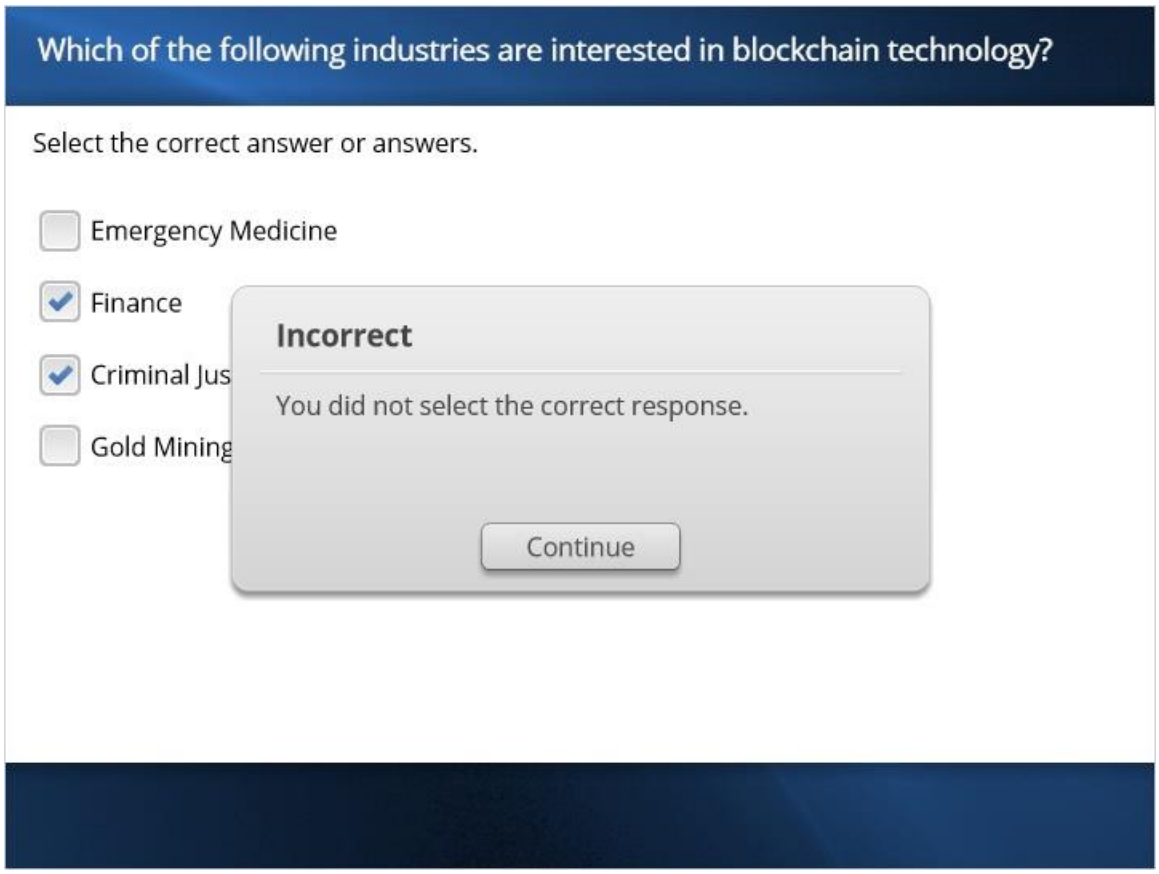
Correct (Slide Layer)

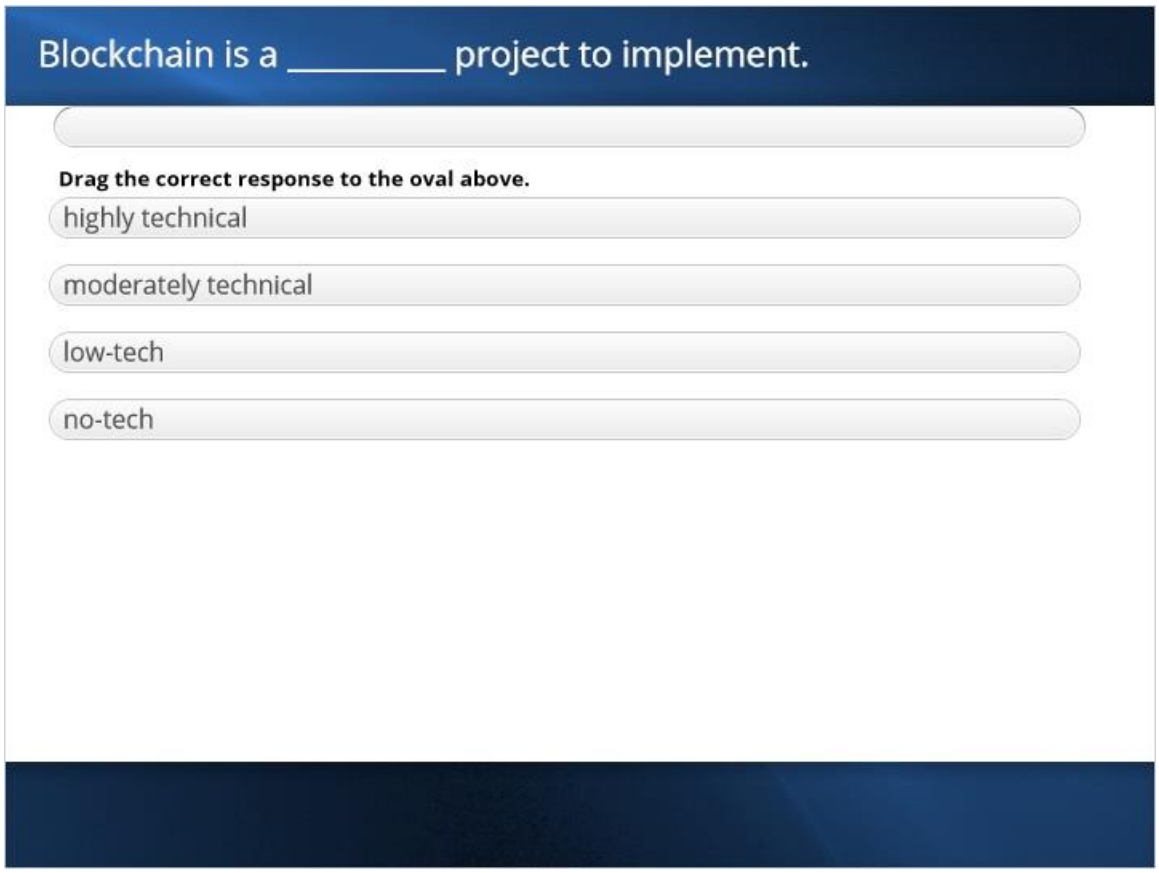


Incorrect (Slide Layer)



4.4 Blockchain is a _____ project to implement.

(Word Bank, 10 points, 1 attempt permitted)



Correct	Choice
X	highly technical
	moderately technical
	low-tech
	no-tech

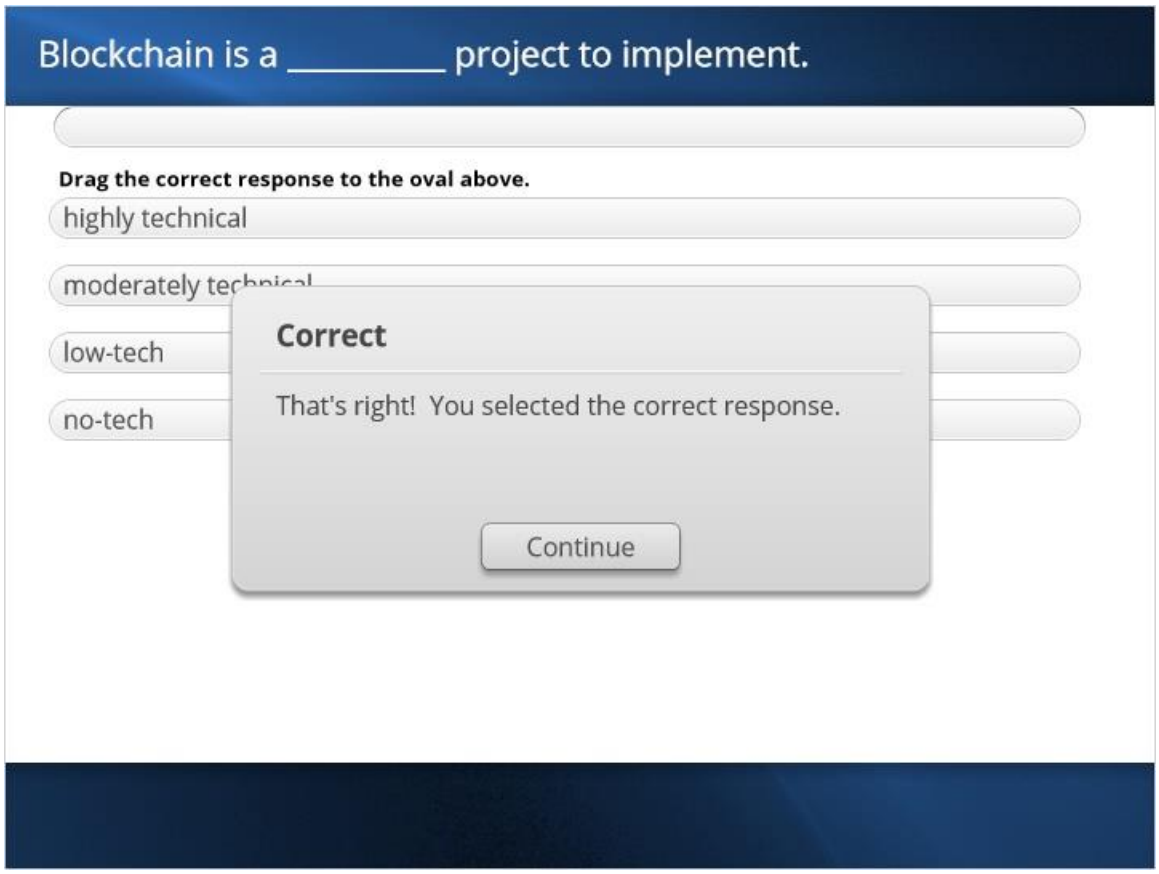
Feedback when correct:

That's right! You selected the correct response.

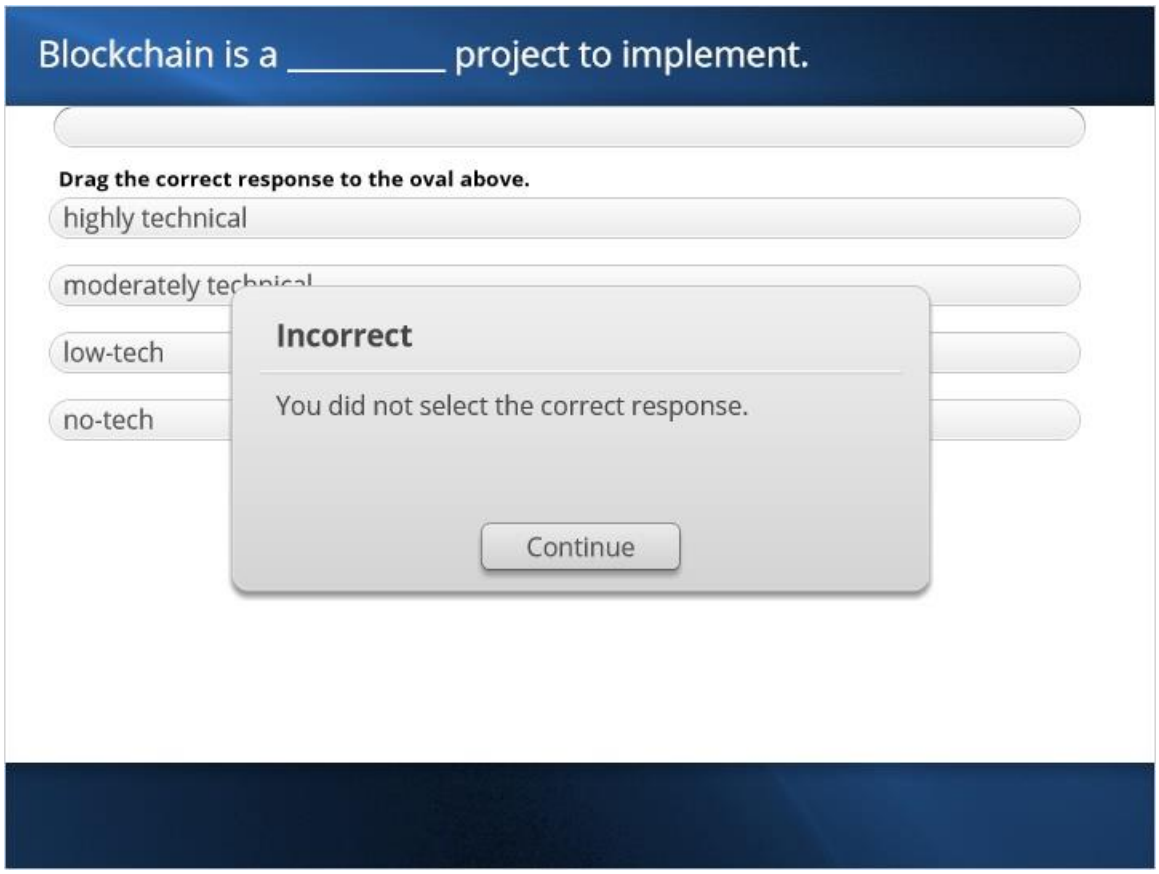
Feedback when incorrect:

You did not select the correct response.

Correct (Slide Layer)

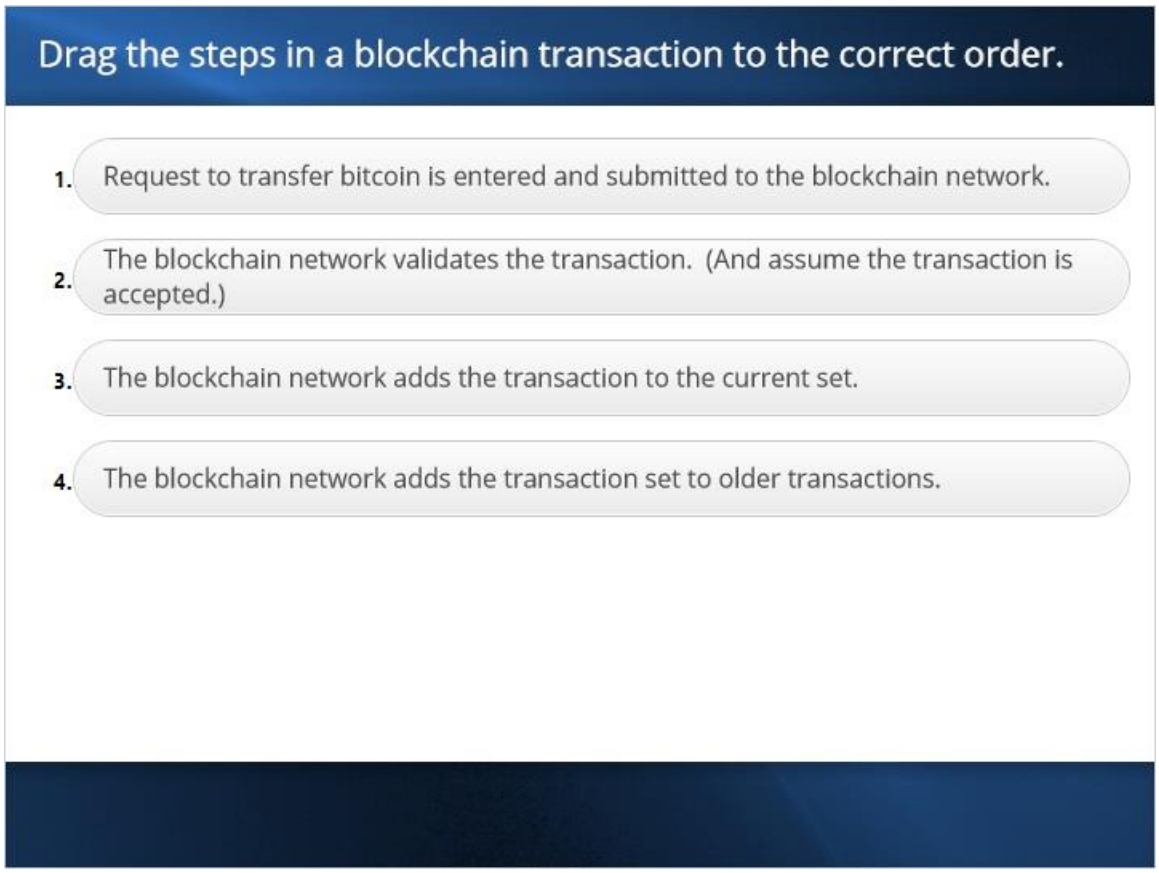


Incorrect (Slide Layer)



4.5 Drag the steps in a blockchain transaction to the correct order.

(Sequence Drag-and-Drop, 10 points, 1 attempt permitted)



Correct Order
Request to transfer bitcoin is entered and submitted to the blockchain network.
The blockchain network validates the transaction. (And assume the transaction is accepted.)
The blockchain network adds the transaction to the current set.
The blockchain network adds the transaction set to older transactions.

Feedback when correct:

That's right! You selected the correct response.

Feedback when incorrect:

You did not select the correct response.

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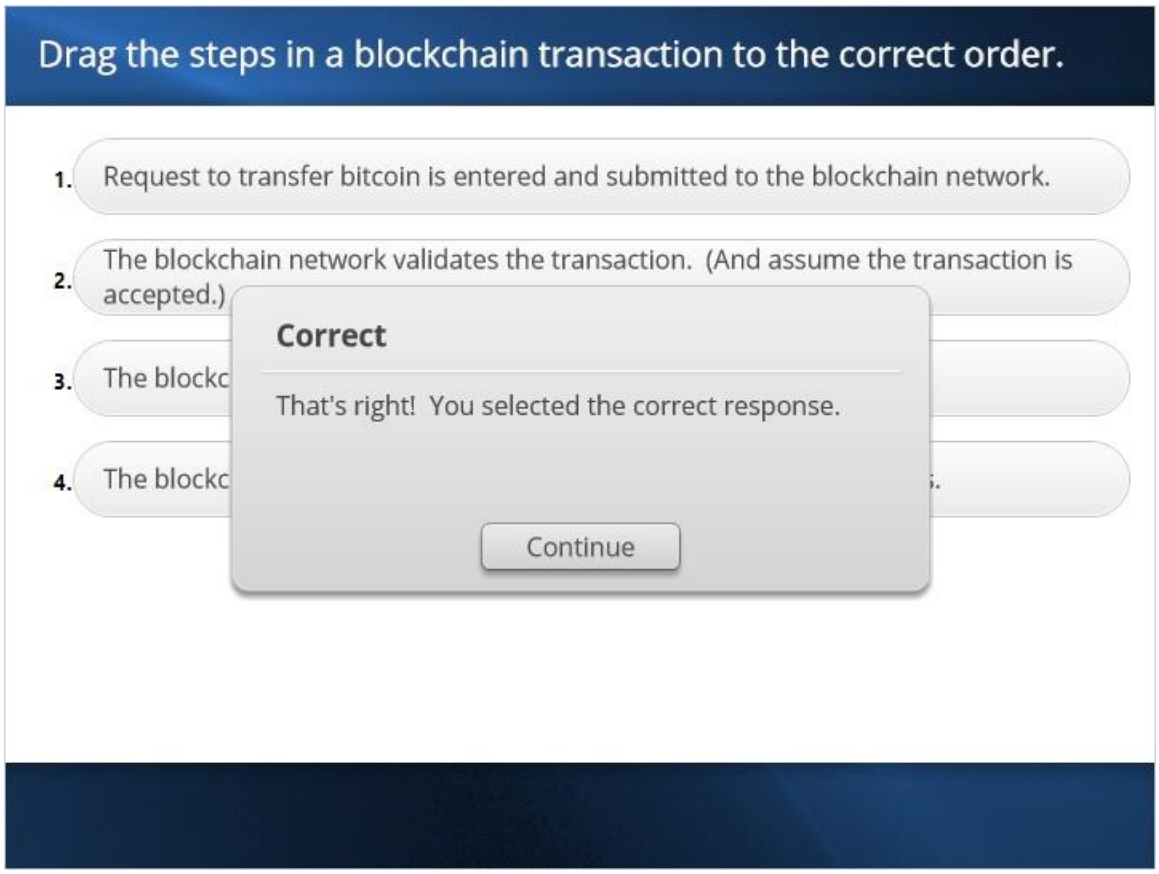
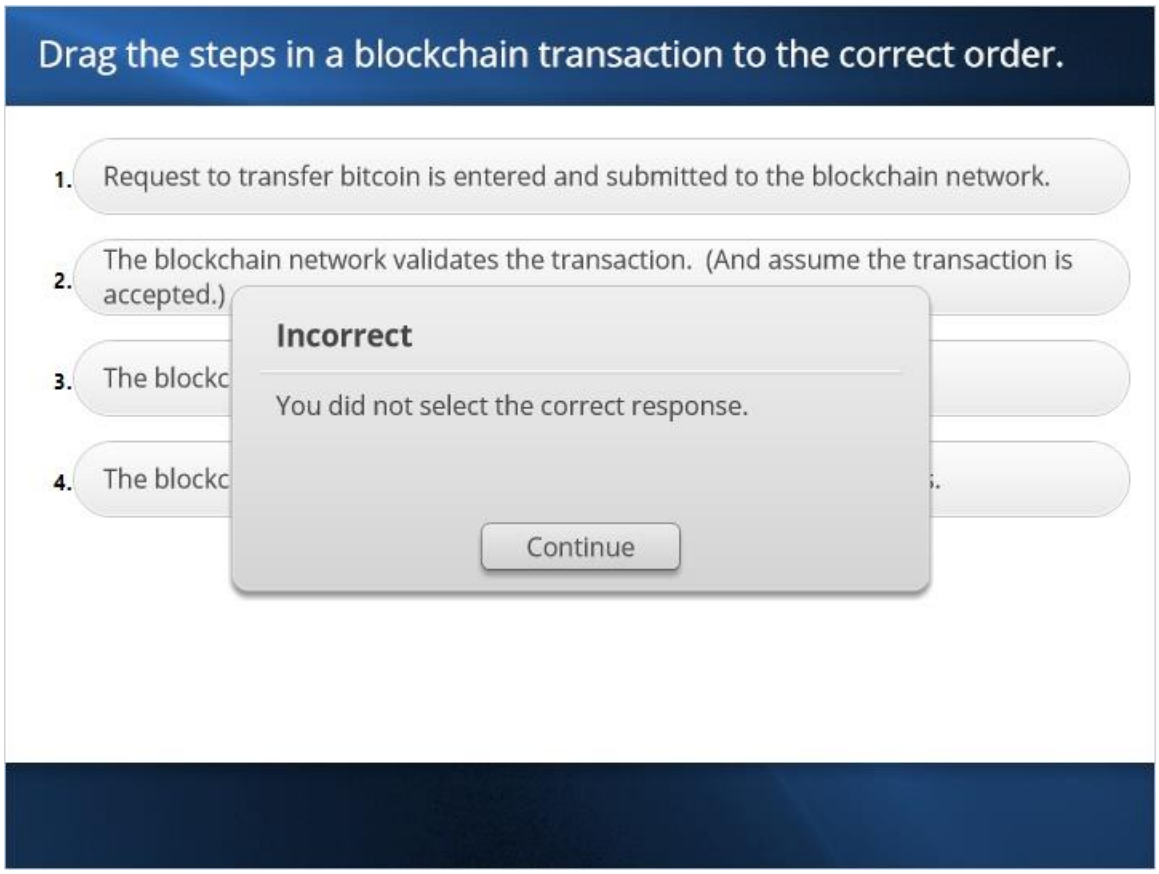
Correct (Slide Layer)

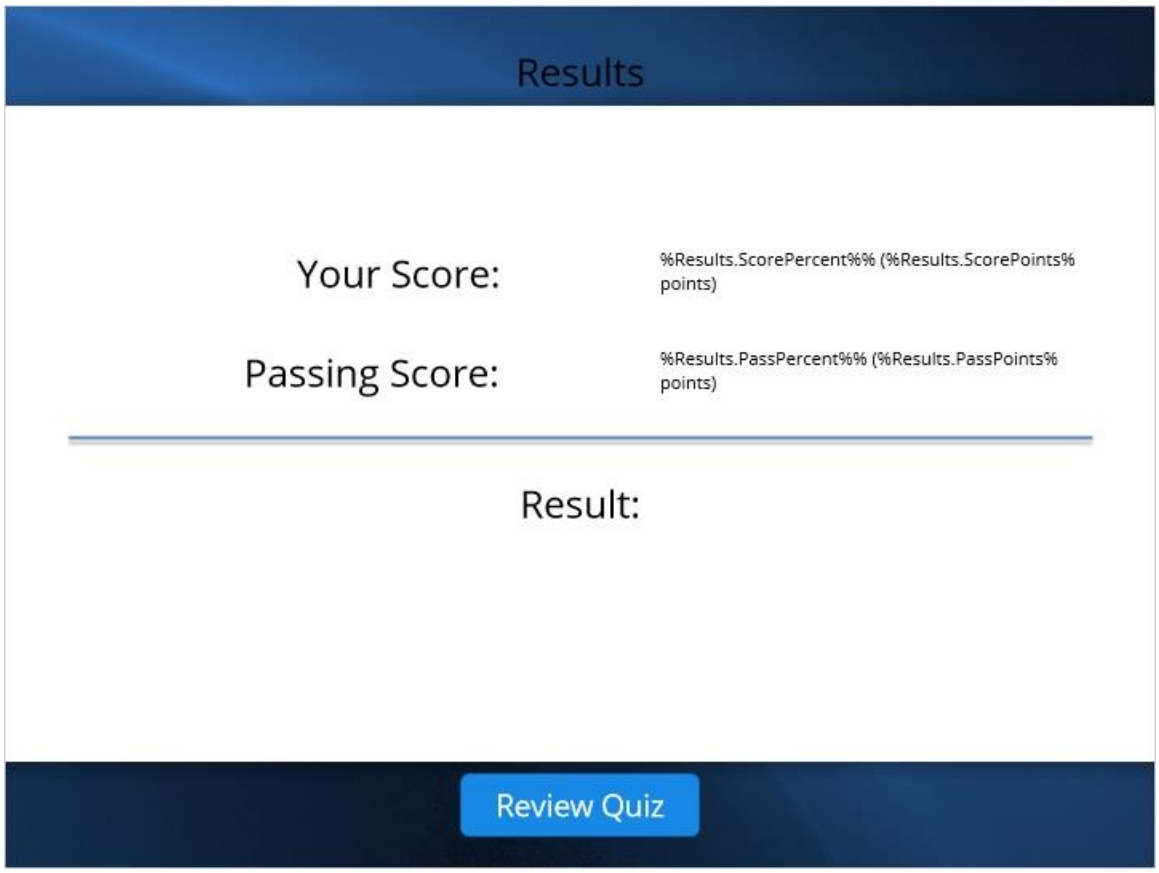


Incorrect (Slide Layer)



4.6 Results Slide

(Results Slide, 0 points, 1 attempt permitted)



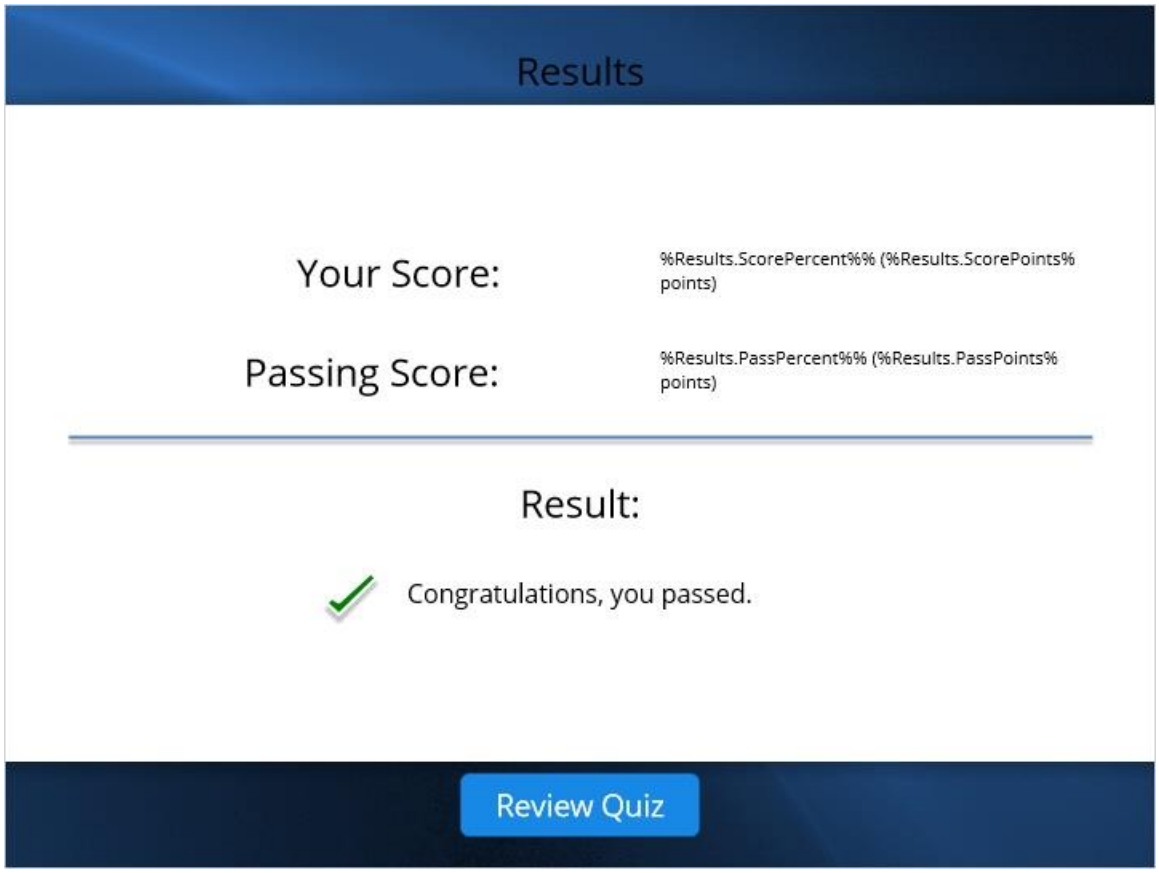
Results for
1.4 What does a blockchain do?
2.3 Question
4.2 A blockchain is a technology to record _____.
4.3 Which of the following industries are interested in blockchain technology?
4.4 Blockchain is a _____ project to implement.
4.5 Drag the steps in a blockchain transaction to the correct order.

Result slide properties

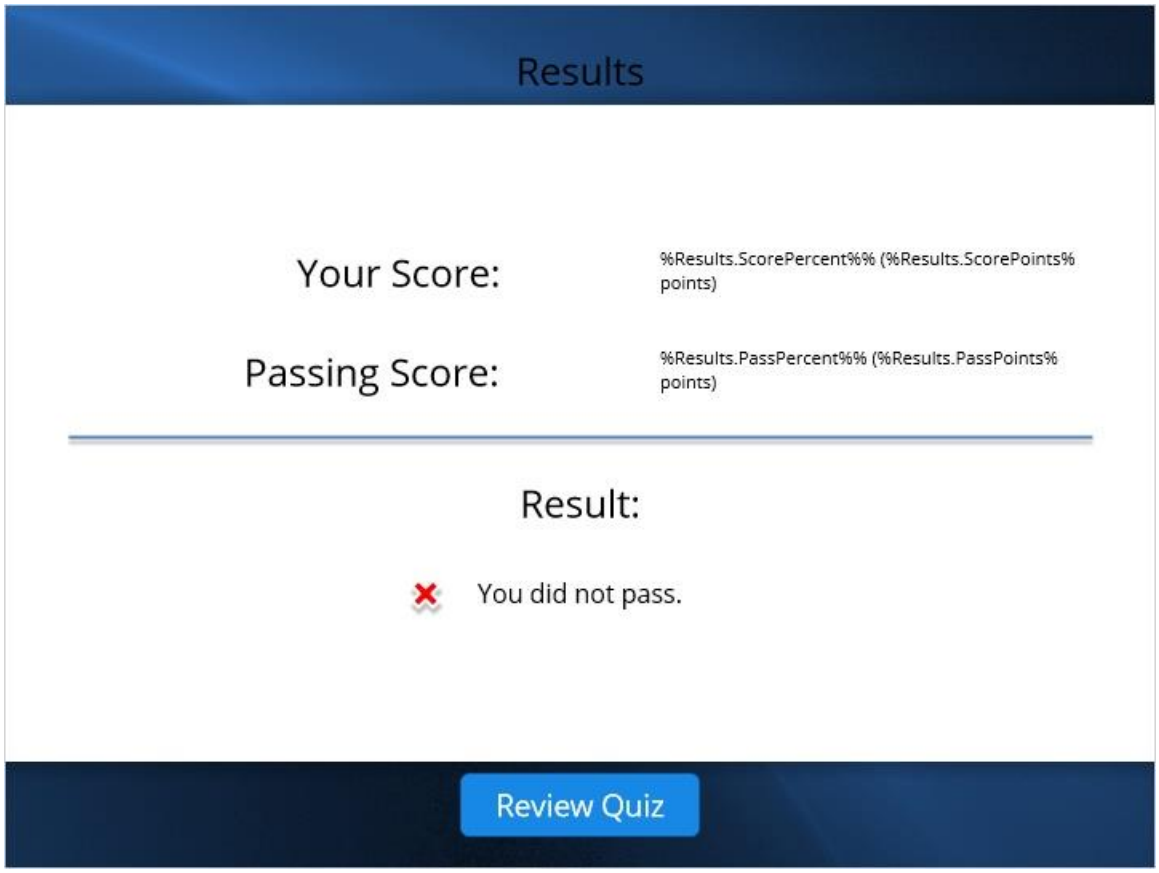
Passing	80%
Score	

Notes:

Success (Slide Layer)



Failure (Slide Layer)

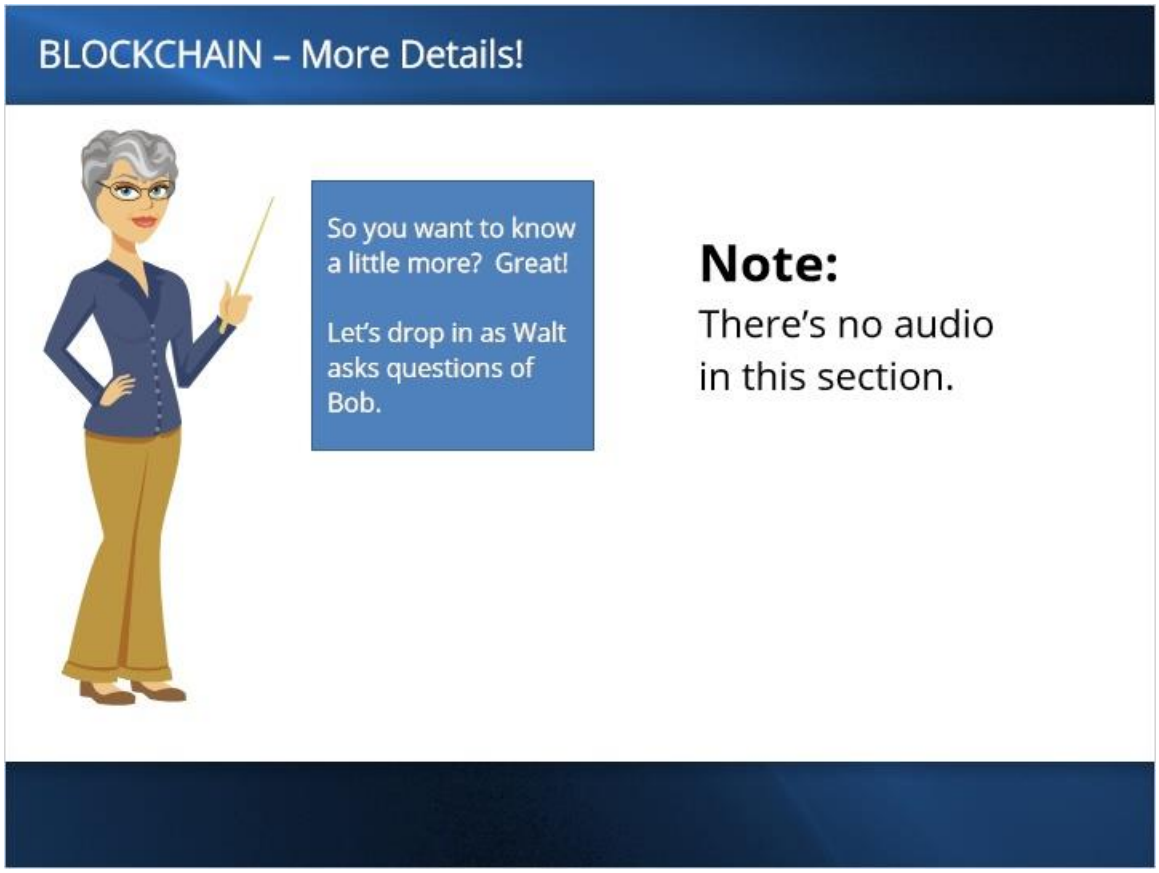


4.7 Thank you!

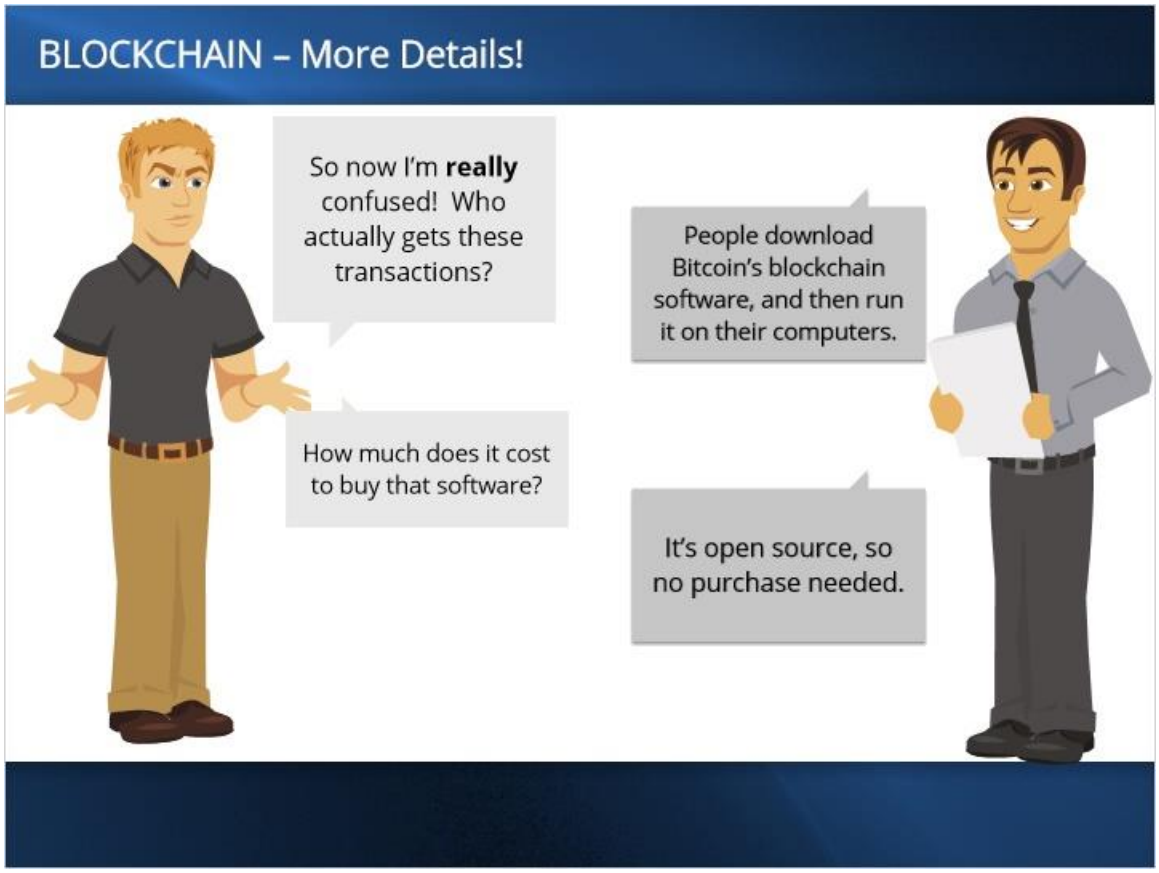
Notes:

5. More Info

5.1 Going Further

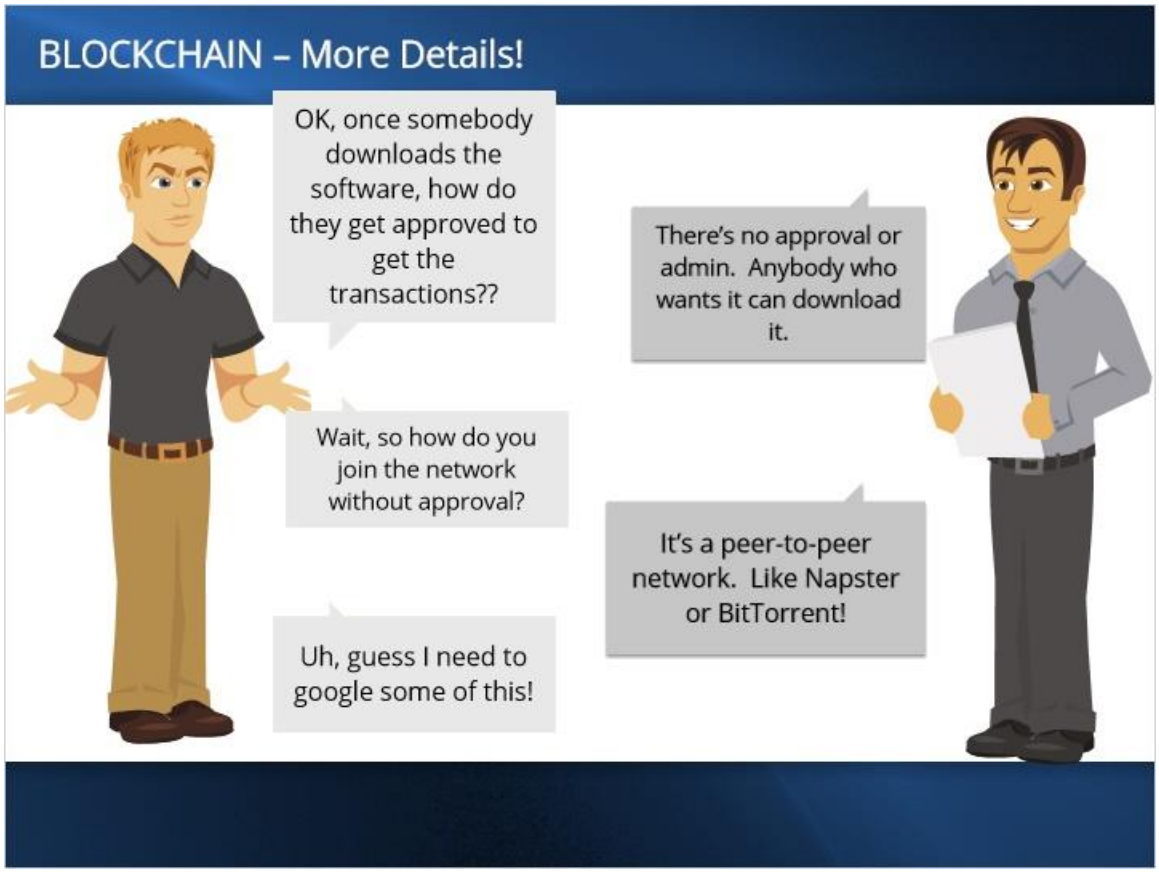


5.2 Going Further 2

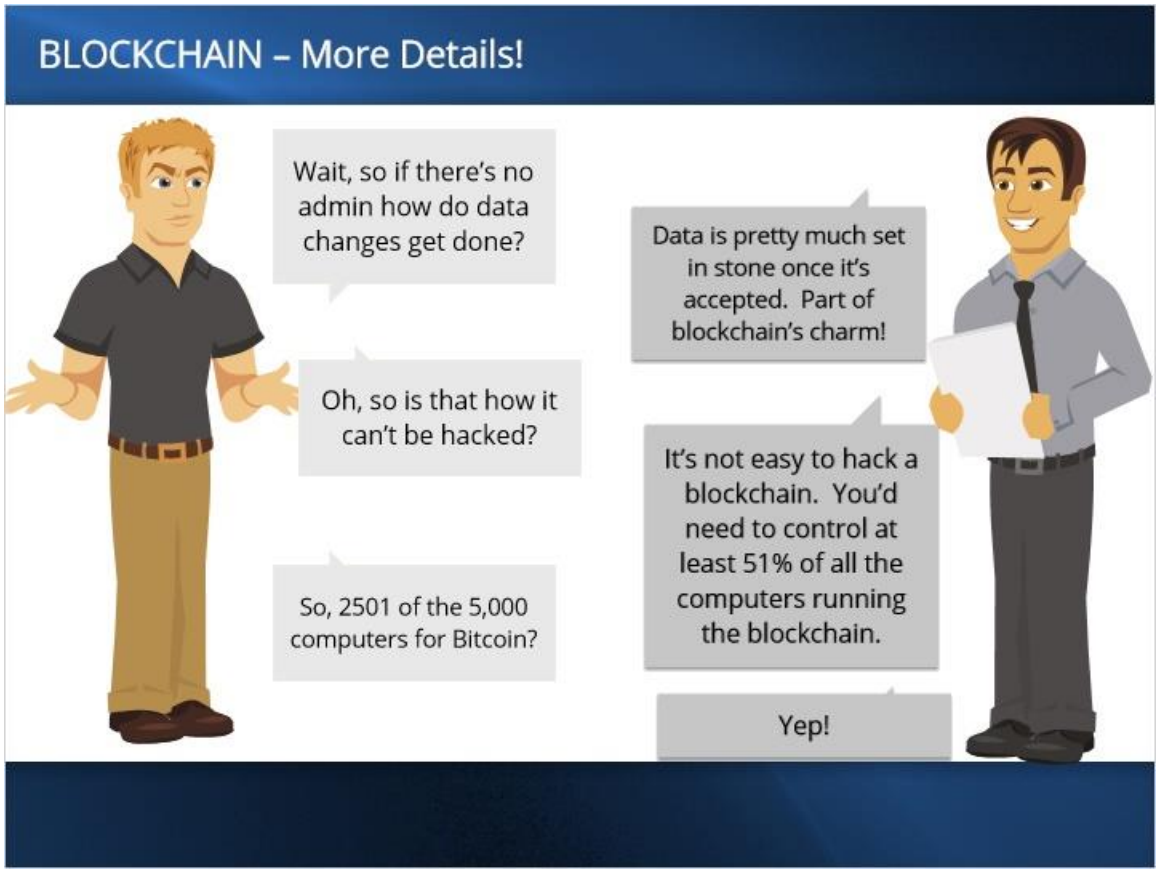


Notes:

5.3 Going Further 3



5.4 Going Further 4



5.5 Going Further 5