C2

Guided build: Class Quiz web app

CHAPTER ASSIGNMENT · 15 MARKS

Name _____ Class _____ No. _____ Date _____

> Answer these as you work through the guided build. Tick each step when it works, and answer its questions before moving on.

Questions from the Guru Jazzy chapter page, for classroom use.

Build checklist

1 Tick each step when it works.

Step	Done when	✓
2 The sheet	Questions and Results tabs exist, 15+ questions, row 1 frozen	
3 Question bank	test() logs 10 questions with no answer field	
4 The quiz page	The web app shows the form and the questions	
5 Mark and save	A submission adds a row to Results and sends the email	
6 Teacher tools	The menu shows a summary	
7 Deploy and test	A friend completed it on a phone	

Understanding the design

2 The correct answers never leave the server. Why? What could a student do if the page knew them? [2]

3 Each question's ID is its sheet row. Why do the questions need a stable ID once they have been shuffled? [2]

4 The web app opens the spreadsheet by its ID instead of using the active spreadsheet. Why? [1]

5. Why is sorting by `Math.random()` not a fair shuffle? Which algorithm does the build use instead? [2]

6. A teacher leaves a half-typed row in the Questions tab. What does `readBank_()` do with it, and why is that useful? [2]

7. Give two inputs from the student form that the server should check before saving. [2]

8. Fill in the table: which file does each job, and which chapter did you learn it in?

Job	File	Chapter
Settings and the spreadsheet		
Read, clean and shuffle the bank		
The page		
Mark, save, email		
Menu and analysis		

Extensions

9. Choose two extensions to add. For each one, write what it does and which functions you will change. [4]

Chapter quiz

Q1 Where is the quiz marked?

A	B	C	D
In the student's browser	On the server, in submitQuiz	In the Results tab with a formula	By the teacher

---

Q2 Which function serves a web app page?

A. onOpen B. doGet C. main D. render

Q3 What does quizForStudent_ send to the browser?

A	B	C	D
IDs, text and options only	The whole sheet	Questions with their answers	Only the answers

---

Q4 Which shuffle makes every order equally likely?

A	B	C	D
Sorting by Math.random()	Fisher–Yates	Reversing the list	Sorting A to Z

End of assignment · Check your answers against the chapter at gurujazzy.com/subjects/apps-script/c2-guided-build-quiz-app/