

# **Test Plan for Blackboard Automatic Test Uploader**

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## **Part 1: The Program**

Blackboard Automatic Test Uploader is written in Python and utilizes Selenium WebDriver. It takes information from an Excel spreadsheet to create a test on Blackboard. The program must be able to create three different types of questions:

1. Multiple choice
2. Multiple answer (Select all that apply)
3. Short answer

The program must also be able to randomize the order answer choices are displayed in for multiple choice and multiple answer questions.

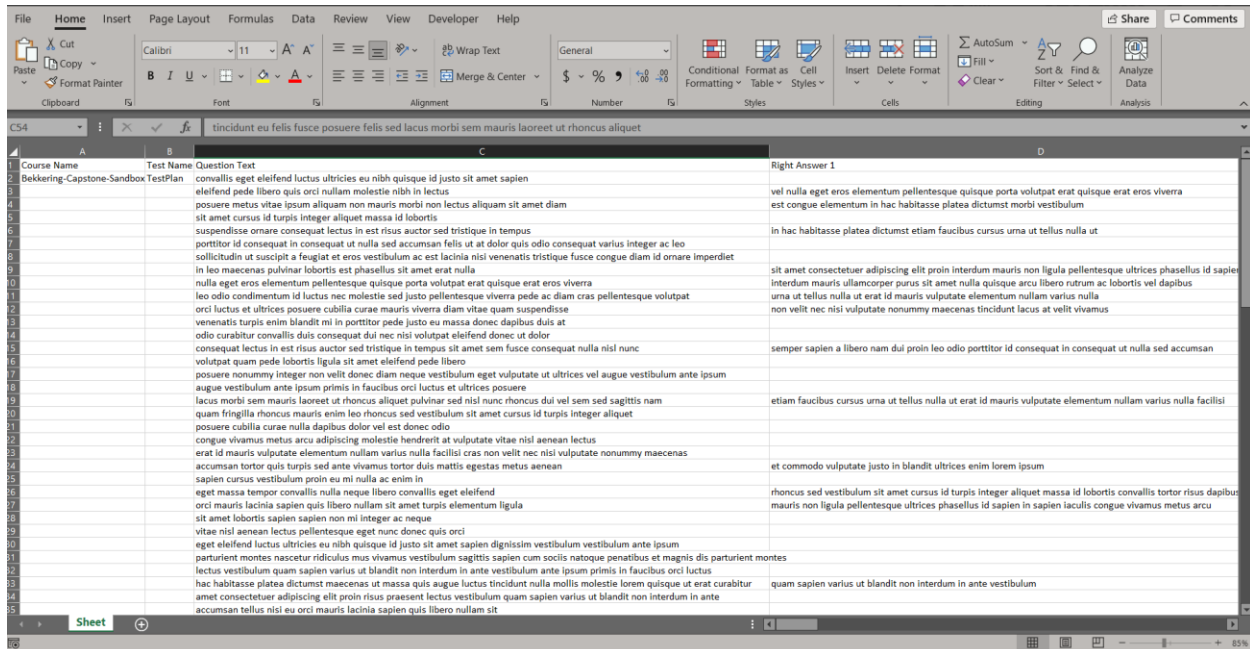
## **Part 2: Test Strategy**

The scope of this test plan is to test the ability of the program to upload each of the three types of questions into a test from information collected from an Excel file. This test plan will not test the ability of the program to create a template Excel test file, nor will it test the process of installing the program. Since the author of the program (Evan Sowards) will also be the one testing the program, the biggest risk is that he will unintentionally avoid potential errors or bugs because he already knows how to use the program.

## **Part 3: Resources**

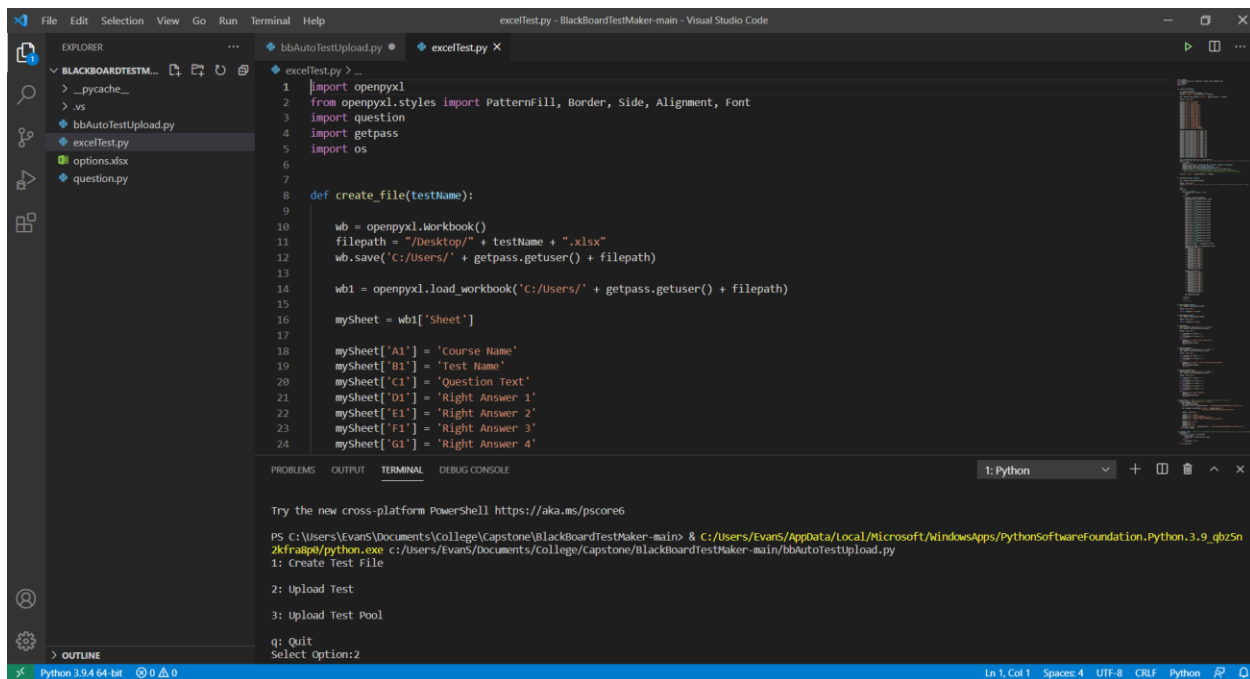
The test file used was made using Mockaroo, an online random data generator. Credit goes to Kurtis Emerson in the NSU CS Majors Discord server for sharing this resource. Mockaroo creates .csv files by default, so it was converted to a .xlsx file manually. There are 100 questions in the file. Most of them multiple answer due

to the fact that the file uses randomly generated data, but there are multiple choice and short answer questions in there as well.



Screenshot of test file

## Part 4: Results



Screenshot of program being successfully executed

The program was executed successfully with no errors. The program navigated to Blackboard and created a new test. It also properly read information from the test file and entered each type of question into the test.

The screenshot shows the Blackboard Test Canvas interface. On the left is a sidebar with navigation options: Home Page, Information, Content, Discussions, Groups, Tools, Help, Tests, Zoom meetings, Course Management, Control Panel, Content Collection, Course Tools, Achievements, Announcements, Attendance, Blogs, Bookshelf, Contacts, Content Market Tools, and Course Calendar. The main area is titled 'Test Canvas: TestPlan' and includes a description, instructions, total questions (100), and total points (1,000). Below this, there are buttons for 'Create Question', 'Reuse Question', and 'Upload Questions'. A table lists the questions, with the first one being a multiple-choice question about 'convallis eget eleifend luctus ultricies'.

Question	Answer
convallis eget eleifend luctus ultricies eu nibh quisque id justo sit amet sapien	<ul style="list-style-type: none"><li>a. sem mauris laoreet ut rhoncus aliquet pulvinar sed nisl nunc rhoncus dui vel sem sed sagittis nam congue risus</li><li>b. tellus in sagittis dui vel nisl dui ac nibh fusce lacus purus aliquet at</li><li>c. egestas metus aenean fermentum donec ut mauris eget massa tempor convallis nulla neque libero convallis eget eleifend</li><li>d. platea dictumst aliquam augue quam sollicitudin vitae consectetur eget rutrum at lorem integer tincidunt ante</li></ul>