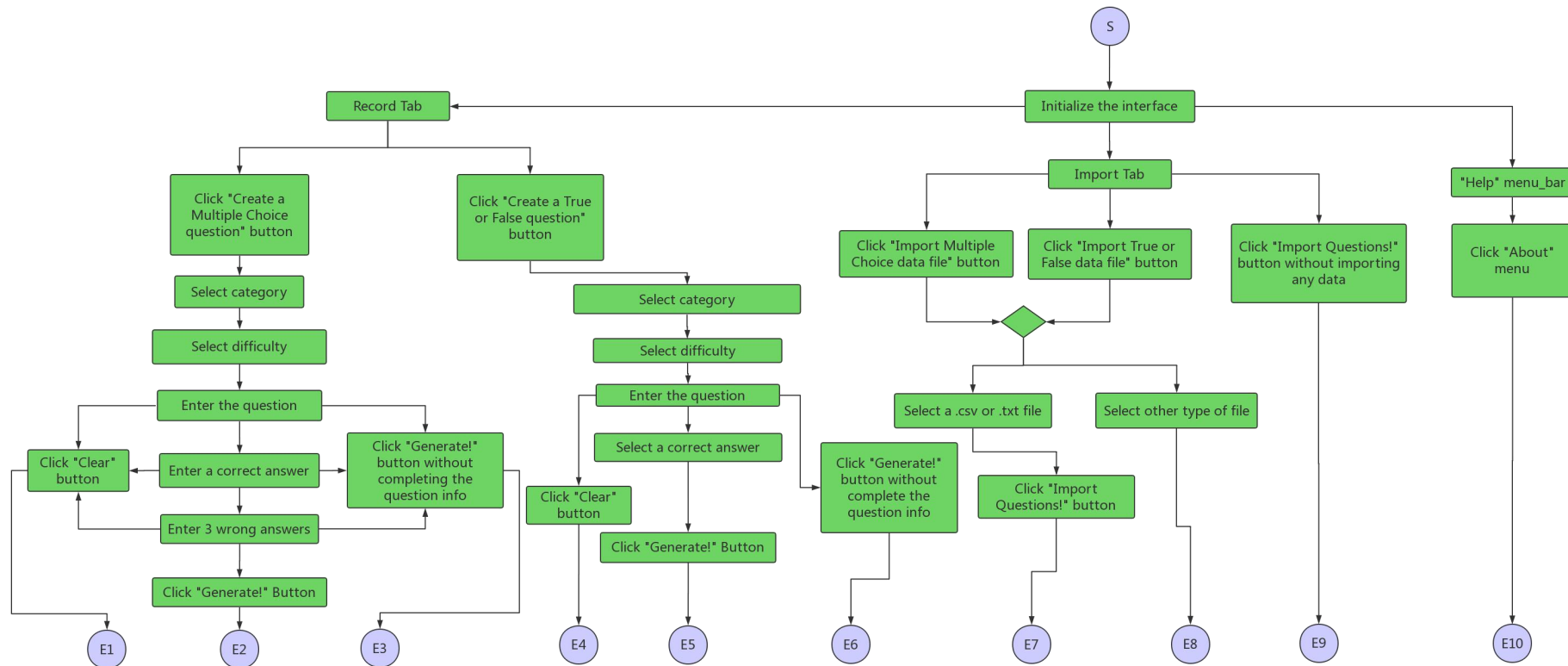# Team 8 - Portfolio B

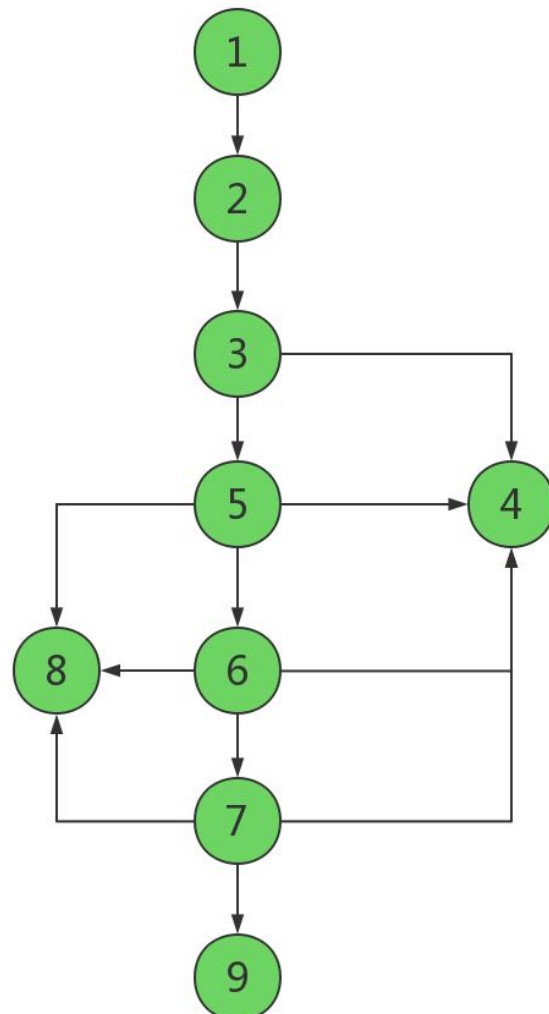# Unit 1 - Add Question

Flow Control and Test Case

Author: Tian ZHANG

Fig. 1. Overview of flows for Unit 1

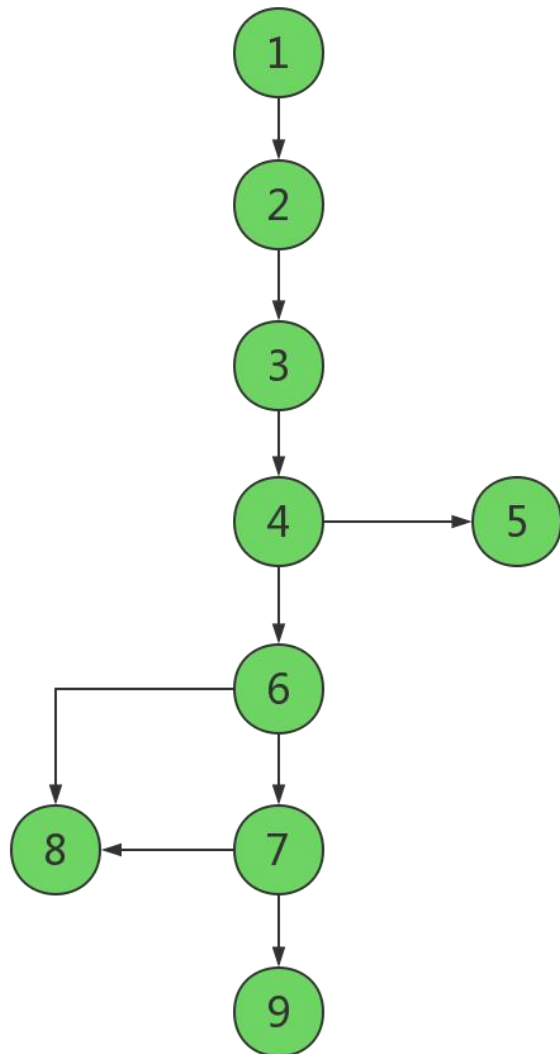# Flow 1: Record a Multiple Choice question manually

1. Initialize the interface

2. Select the category of the question

3. Select the difficulty of the question

4. Press "Generate!" button without completing the question info

5. Enter the question

6. Enter the correct answer

7. Enter 3 wrong answers

8. Press "Clear" button

9. Press "Generate!" button

Test Case Id: Add Question 01			
Test Purpose: COMSC Engagement team can record a multiple choice question manually			
Environment: Written in python 3.7.4 under PyCharm 2019.3.3			
Preconditions: COMSC Engagement team is logged into the system			
Test Case Steps:			
Step No	Procedure	Response	Pass/Fail
1	Initialize the interface	Interface runs successfully	P
2	Select the category of the question	Can choose different category	P
3	Select the difficulty level of the question	Can choose different difficulty	P
4	Press "Generate!" button without completing the question info	Error message box popping up (Question/ Correct Answer/ Wrong answers cannot be empty, please try again.)	P
5	Enter the question	Question input shows correctly	P
6	Enter the correct answer	Correct answer input shows correctly	P
7	Enter 3 wrong answers	Wrong answers input shows correctly	P
8	Press "Clear" button	All input deleted	P
9	Press "Generate!" button	Message box popping up showing the success hint; All input clear; Generates "mc_question.db" file with the question recorded correctly	P
Comments:			
Related Tests:			
Author: Tian ZHANG		**Checker:**	

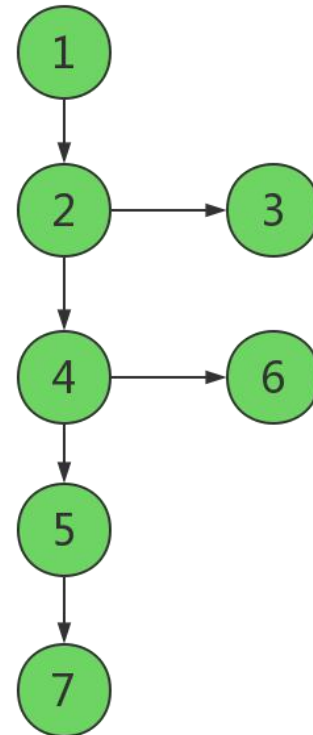# Flow 2: Record a True or False question manually

1. Initialize the interface

2. Click "Create a True or False question" button

3. Select the category of the question

4. Select the difficulty of the question

5. Press "Generate!" button without completing the question info

6. Enter the question

7. Select the correct answer

8. Press "Clear" button

9. Press "Generate!" button

Test Case Id: Add Question 02			
Test Purpose: COMSC Engagement team can record a true or false question manually			
Environment: Written in python 3.7.4 under PyCharm 2019.3.3			
Preconditions: COMSC Engagement team is logged into the system			
Test Case Steps:			
Step No	Procedure	Response	Pass/Fail
1	Initialize the interface	Interface runs successfully	P
2	Click "Create a True or False question" button	The interface changes to TF question recording interface	P
3	Select the category of the question	Can choose different category	P
4	Select the difficulty level of the question	Can choose different difficulty	P
5	Press "Generate!" button without completing the question info	Error message box popping up (Question cannot be empty, please try again.)	P
6	Enter the question	Question input shows correctly	P
7	Select the answer with the radio checkbox	Can select either True or False correctly, one at a time	P
8	Press "Clear" button	All input deleted	P
9	Press "Generate!" button	Message box popping up showing the success hint; All input clear; Generates "tf_question.db" file with the question recorded correctly	P
Comments:			
Related Tests:			
Author: Tian ZHANG		**Checker:**	

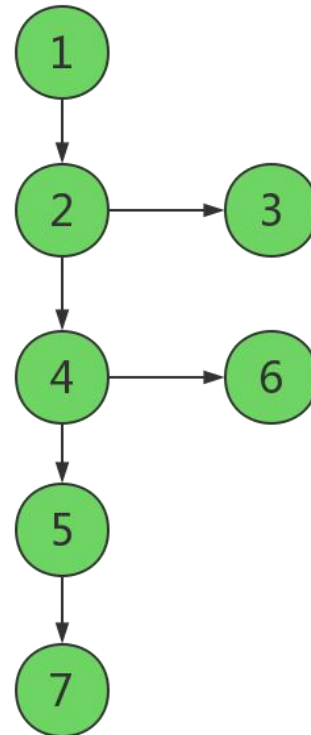# Flow 3: Import Multiple Choice questions from a .csv file

1. Initialize the interface

2. Switch to "Import Tab"

3. Click "Import Questions" button without importing anything

4. Click "Import Multiple Choice data file" button

5. Select file "template_mc_csv.csv"

6. Select other type of file

7. Click "Import Questions" button

Test Case Id: Add Question 03			
Test Purpose: COMSC Engagement team can import multiple choice questions from a .csv file			
Environment: Written in python 3.7.4 under PyCharm 2019.3.3			
Preconditions: COMSC Engagement team is logged into the system			
Test Case Steps:			
Step No	Procedure	Response	Pass/Fail
1	Initialize the interface	Interface runs successfully	P
2	Switch to "Import Tab"	The interface changes to import question tab's interface	P
3	Click "Import Questions" button without importing anything	Error message box popping up (No data imported, please try again)	P
4	Click "Import Multiple Choice data file" button	A file browser popping up	P
5	Select file "template_mc_csv.csv"	File selected successfully, the full path of the file shows in the label below	P
6	Select other type of file	Error message box popping up (File type not supported, please try again); No path shows below; File not selected	P
7	Click "Import Questions" button	Questions imported into "mc_question.db" correctly; Message box popping up giving a success hint; File path clear	

Comments:

Related Tests:

Author: Tian ZHANG	Checker:

Flow 4: Import Multiple Choice questions from a .txt file

1. Initialize the interface

2. Switch to "Import Tab"

3. Click "Import Questions" button without importing anything

4. Click "Import Multiple Choice data file" button

5. Select file "template_mc_txt.txt"

6. Select other type of file

7. Click "Import Questions" button

```
        (1)
         │
         ▼
        (2) ──────▶ (3)
         │
         ▼
        (4) ──────▶ (6)
         │
         ▼
        (5)
         │
         ▼
        (7)
```

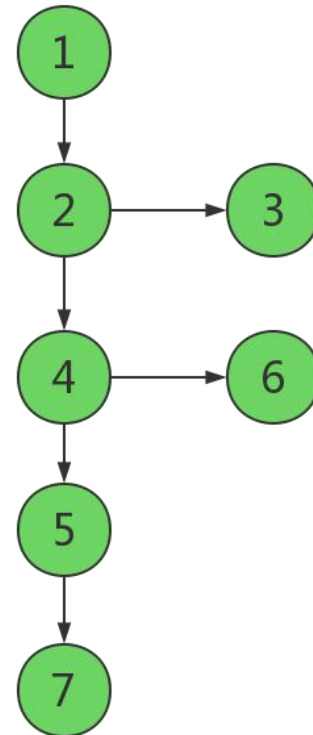| Test Case Id: Add Question 04			
Test Purpose: COMSC Engagement team can import multiple choice questions from a .txt file			
Environment: Written in python 3.7.4 under PyCharm 2019.3.3			
Preconditions: COMSC Engagement team is logged into the system			
Test Case Steps:			
Step No	Procedure	Response	Pass/Fail
1	Initialize the interface	Interface runs successfully	P
2	Switch to "Import Tab"	The interface changes to import question tab's interface	P
3	Click "Import Questions" button without importing anything	Error message box popping up (No data imported, please try again)	P
4	Click "Import Multiple Choice data file" button	A file browser popping up	P
5	Select file "template_mc_txt.txt"	File selected successfully, the full path of the file shows in the label below	P
6	Select other type of file	Error message box popping up (File type not supported, please try again); No path shows below; File not selected	P
7	Click "Import Questions" button	Questions imported into "mc_question.db" correctly; Message box popping up giving a success hint; File path clear	P
Comments:			
Related Tests:			
Author: Tian ZHANG		**Checker:**	

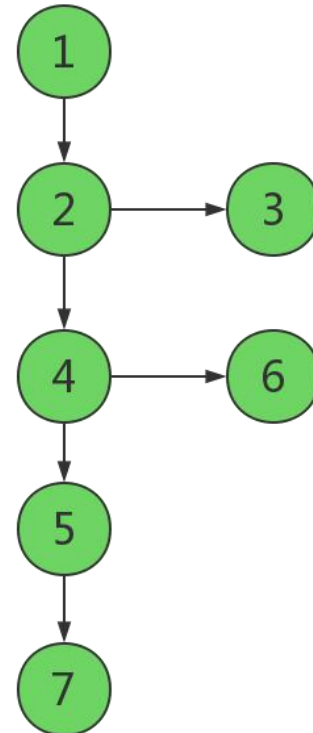# Flow 5: Import True or False questions from a .csv file

1. Initialize the interface

2. Switch to "Import Tab"

3. Click "Import Questions" button without importing anything

4. Click "Import True or False data file" button

5. Select file "template_tf_csv.csv"

6. Select other type of file

7. Click "Import Questions" button

Test Case Id: Add Question 05			
Test Purpose: COMSC Engagement team can import true or false questions from a .csv file			
Environment: Written in python 3.7.4 under PyCharm 2019.3.3			
Preconditions: COMSC Engagement team is logged into the system			
Test Case Steps:			
Step No	Procedure	Response	Pass/Fail
1	Initialize the interface	Interface runs successfully	P
2	Switch to "Import Tab"	The interface changes to import question tab's interface	P
3	Click "Import Questions" button without importing anything	Error message box popping up (No data imported, please try again)	P
4	Click "Import True or False data file" button	A file browser popping up	P
5	Select file "template_tf_csv.csv"	File selected successfully, the full path of the file shows in the label below	P
6	Select other type of file	Error message box popping up (File type not supported, please try again); No path shows below; File not selected	P
7	Click "Import Questions" button	Questions imported into "tf_question.db" correctly; Message box popping up giving a success hint; File path clear	P
Comments:			
Related Tests:			
Author: Tian ZHANG		**Checker:**	

Flow 6: Import True or False questions from a .txt file

1. Initialize the interface

2. Switch to "Import Tab"

3. Click "Import Questions" button without importing anything

4. Click "Import True or False data file" button

5. Select file "template_tf_txt.txt"

6. Select other type of file

7. Click "Import Questions" button

```
      1
      |
      v
      2  --->  3
      |
      v
      4  --->  6
      |
      v
      5
      |
      v
      7
```

Test Case Id: Add Question 06			
Test Purpose: COMSC Engagement team can import true or false questions from a .txt file			
Environment: Written in python 3.7.4 under PyCharm 2019.3.3			
Preconditions: COMSC Engagement team is logged into the system			
Test Case Steps:			
Step No	Procedure	Response	Pass/Fail
1	Initialize the interface	Interface runs successfully	P
2	Switch to "Import Tab"	The interface changes to import question tab's interface	P
3	Click "Import Questions" button without importing anything	Error message box popping up (No data imported, please try again)	P
4	Click "Import True or False data file" button	A file browser popping up	P
5	Select file "template_tf_txt.txt"	File selected successfully, the full path of the file shows in the label below	P
6	Select other type of file	Error message box popping up (File type not supported, please try again); No path shows below; File not selected	P
7	Click "Import Questions" button	Questions imported into "tf_question.db" correctly; Message box popping up giving a success hint; File path clear	P
Comments:			
Related Tests:			
Author: Tian ZHANG		**Checker:**	

Flow 7: Check author information

1. Initialize the interface

2. Click "Help" menu bar

3. Click "About" menu

1

2

3

Test Case Id: Add Question 07			
Test Purpose: COMSC Engagement team can check the author's information			
Environment: Written in python 3.7.4 under PyCharm 2019.3.3			
Preconditions: COMSC Engagement team is logged into the system			
Test Case Steps:			
Step No	Procedure	Response	Pass/Fail
1	Initialize the interface	Interface runs successfully	P
2	Click "Help" menu bar	A menu shows up	P
3	Click "About" menu	A message box with author info popping up	P
Comments:			
Related Tests:			
Author: Tian ZHANG		**Checker:**	