

Test Plan

for

Graduation Placement Service (GPS)

Version 1.0 approved

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Revision History

Name	Date	Reason For Changes	Version
Test_plan_v1.0	2023.5.12	Original one	1.0

1. Objectives

1.1 Modules under test

Our GPS project can help students and alumni from UIC to know more about university offers and job offers. In this testing plan, we are going to test the system case by case. In vision 1.0, we only test the user case “UICer search GPA requirements / search through GPA”, “UICer search GPA requirements / search through university name”, “UICer provide university offer information”.

1.2 References

Graduation Placement Service v3.docx

2. Testing levels and methods

2.1 Testing levels

This is a system testing. We will test all the use cases in our project, including the functions of each user case and the connection between frontend and backend.

2.2 Testing methods

We use Black-Box testing to test whether the results of each user case are valid according to the requirement. We also use LoadRunner to test whether our system perform well under many test cases (We import the database, generate the website, and use the load test in the virtual user generator to judge the performance of the web page by comparing and observing the switching time between pages).

3. Test cases

3.1 Black-Box testing:

Testing the user cases following the requirement. We test cases following the file “Graduation Placement Service v3.docx”, and compare the outputs with the expected.

(1) *UICer search GPA requirements / search through GPA*

<i>Test ID</i>	<i>Test case description</i>	<i>Expected result</i>
3.1.1	<i>UICer search university by entering GPA:3.5</i>	<i>Show a table include all the university name and program whose lower GPA is smaller than 3.5</i>

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3.1.2	UICer search university by entering GPA:3.7	Show a table include all the university name and program whose lower GPA is smaller than 3.7
3.1.3	UICer search university by entering GPA:4.0	Show a table include all the university name and program whose lower GPA is smaller than 4.0
3.1.4	UICer search university by entering GPA:2.2	Show a table include all the university name and program whose lower GPA is smaller than 2.2
3.1.5	UICer search university by entering GPA:2.5	Show a table include all the university name and program whose lower GPA is smaller than 2.5
3.1.6	UICer search university by entering GPA:2.7	Show a table include all the university name and program whose lower GPA is smaller than 2.7
3.1.7	UICer search university by entering GPA:3.0	Show a table include all the university name and program whose lower GPA is smaller than 3.0

(2) UICer search GPA requirements / search through university name

<i>Test ID</i>	<i>Test case description</i>	<i>Expected result</i>
3.1.8	UICer search university program by entering CST	Show a table include all the CST program with the GPA range of our alumni and students.
3.1.9	UICer search university program by entering FIN	Show a table include all the FIN program with the GPA range of our alumni and students.
3.1.10	UICer search university program by entering CTV	Show a table include all the CTV program with the GPA range of our alumni and students.
3.1.11	UICer search university program by entering ACCT	Show a table include all the ACCT program with the GPA range of our alumni and students.

(3) UICer provide university offer information

<i>Test ID</i>	<i>Test case description</i>	<i>Expected result</i>
3.1.12	UICer provide the offer information with university – Cambridge, program name – CST, date – 2022.12.1, taught master and the photocopy of that.	The university is not in the list and the software asks user to input the detail.
3.1.13	UICer provide the offer information with university – Oxford, program name – DS, date – 2023.1.1, research master and the photocopy of that.	The university is not in the list and the software asks user to input the detail.
3.1.14	UICer provide the offer information with	The offer is successfully uploaded to

	<i>university – UIC, program name – CST, date – 2023.1.1, taught master and the photocopy of that.</i>	<i>our database.</i>
<i>3.1.15</i>	<i>UICer provide the offer information with university – HKU, program name – FIN, date – 2023.2.1, research master and the photocopy of that.</i>	<i>The offer is successfully uploaded to our database.</i>

3.2 LoadRunner testing:

<i>Test ID</i>	<i>Test case description</i>	<i>Expected result</i>
<i>3.2.1</i>	<i>Automatically test the search by GPA of 3.5, 2.7, 3.7, 2.6 and None (parameter substitution). The iteration is 2 and the thinking time is none. The pacing starts new iteration at Random intervals, every 60 to 90 seconds.</i>	<i>Pass all the tests.</i>
<i>3.2.2</i>	<i>Automatically test the search by university name of UIC, HKU, QAD, and NDH (parameter substitution). The iteration is 2 and the thinking time is none. The pacing starts new iteration at Random intervals, every 60 to 90 seconds.</i>	<i>Pass all the tests.</i>