Training and Placement Management System
Unit Test Plan and Test Cases

Project Name : Training and Placement Management System	
Test Case Id: Test_1	Test Designed By : Moitrish Maity
Test Priority : High	Test Designed Date : 12/12/21
Module Name : Login	Test Executed By : Moitrish Maity
Test Title: verify login with valid user id and password	Test Execution Date : 15/12/21
Description: tests the login functionality	
Pre-Conditions : User has valid username and password	
Dependencies : Registration_M	

Step	Test Steps	Test Data	Expected Result	Actual Result	Status pass/fail	Notes
1	Navigate to login page		Login page should be opened	Login page opened successfully	pass	
2	Provide valid username	User = way2moitrishmaity@gmail.com				
3	Provide valid Password	Password : M@M@TPM1234				
4	Click on login button		User should be able to login	User is sent to dashboard with successful login	pass	

Project Name : Training and Placement Management System	
Test Case Id: Test_2	Test Designed By : Niladri Gupta
Test Priority : Medium	Test Designed Date : 16/12/21
Module Name : Update Profile	Test Executed By : Niladri Gupta
Test Title: Update the profile section with proper type of information	Test Execution Date : 17/12/21
Description: Tests how information is collected and stored	
Pre-Conditions : User is logged in	
Dependencies : Test_1	

Step	Test Steps	Test Data	Expected Result	Actual Result	Status pass/fail	Notes
1	Navigate to my profile		my profile page should be displayed	my profile page is displayed	pass	
2	Education Details	Got some college degree				
3	Provide valid contact details	Phone = 91370 91370 Email = niladrigupta2019@gmail.com				
4	Provide valid address	Address = 1E, B.C.Street. Pin - 700021				
5	Provide DoB	Date = 27/11/2000				
6	Provide Guardian's Name	Name = Biswa Gupta				
7	Click on Save		All information provided should be saved successfully	All information provided is saved successfully	pass	

Project Name : Training and Placement Management System						
Test Case Id: Test_3			Test Designed By : Sourav Hota			
Test Priority : High			Test Designed Date : 17/12/21			
Module Name : Application Form			Test Executed By : Sourav Hota			
Test Title: Check Job Application form with correct type of files			Test Execution Date : 18/12/21			
Description: Tests whether Documents are saved correctly						
Pre-Conditions : User is logged in						
Dependencies : test_1						

Step	Test Steps	Test Data	Expected Result	Actual Result	Status pass/fail	Notes
1	Navigate to Application form		Application form should be opened	Application form is opened	pass	
2	Add Aadhaar Card	fileName = "aadhar.pdf" (1.32 MB)				
3	Add Photo	fileName = "niladri.jpg"(2.05MB)				
4	Add Signature	fileName = "sign.pdf"(200kB)				
5	Add X MarkSheet	FileName = "Msheet_X.pdf" (1.78 MB)				
6	Add XII MarkSheet	FileName = "MSheet_XII.pdf"(1. 81 MB)				
7	Add College degree	FileName = "College_Degree.pdf" (1.5 MB)				
8	Upload Documents		Documents should be uploaded	Documents are uploaded	pass	

Project Name : Training and Placement Management System	
Test Case Id: Test_4	Test Designed By : Md. Ainain Raza
Test Priority : High	Test Designed Date : 19/12/21
Module Name : Exam	Test Executed By : Md. Ainain Raza
Test Title: tests the exam portal	Test Execution Date : 21/12/21
Description: Tests whether exam can be given correctly	
Pre-Conditions : User is selected and is logged in the portal	
Dependencies : Test_1, Test_3	

Step	Test Steps	Test Data	Expected Result	Actual Result	Status pass/fail	Notes
1	Navigate to the exam portal		Exam portal should open successfully	Exam portal is opened successfully	pass	
2	Select paper	Paper = General Knowledge	Question paper should open the form accordingly	Question Paper is opened successfully	pass	
3	Give access to camera and microphone		Pop-up should be displayed	Pop-up displayed and accepted	pass	
4	Submit the paper		Confirmation to submit must show	Confirmation is shown and then submitted	pass	

Project Name : Training and Placement Management System	
Test Case Id: Test_5	Test Designed By : Md. Ainain Raza
Test Priority : medium	Test Designed Date : 22/12/21
Module Name : Result	Test Executed By : Md. Ainain Raza
Test Title: Tests the Result section	Test Execution Date : 23/12/21
Description: Tests whether result can be seen successfully	
Pre-Conditions : User should have given the exam and be logged in	
Dependencies : Test_1, Test_4	

Step	Test Steps	Test Data	Expected Result	Actual Result	Status pass/fail	Notes
1	Navigate to the Results Page		Results section should open successfully	Results section is opened	pass	
2	Give Exam ID	ID = "TPM1171NG"				
3	Show Result		Full Result must be shown and can be downloaded as pdf.	Result is shown and can be downloaded.	pass	

Discussion :

Here we learnt how to test out the different system features. Software Testing is evaluation of the software against requirements gathered from users and system specifications. Testing is conducted at the phase level in software development life cycle or at module level in program code. Software testing comprises Validation and Verification.

Here we have tested out 5 modules of our system like Login, Update profile, Application, Exam, Result etc. We have taken some expected input and tested it and it gave the expected outputs and it passed the overall test.

Questionnaire :

1. **At which stage of SDLC is the unit test plan prepared? How are unit testing results Validated?**

   In SDLC, Unit Test Plans (UTPs) are developed during the module design phase. These UTPs are executed to eliminate bugs at code level or unit level. Unit testing results are validated such that each unit of the software code performs as expected. Depending on the risk and complexity of the software, different levels of validation rigor should be performed :
   Step 1: Create the Validation Plan.
   Step 2: Define System Requirements.
   Step 3: Create the Validation Protocol & Test Specifications.
   Step 4: Testing.
   Step 5: Develop/Revise Procedures & Final Report.