



**UE22CS341A: Software Engineering
Case Study**

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Test Cases for an **Automated Skill Matching and Gap Analysis Tool** using Agile.

Test Case ID	Name of Module	Test Case Description	Pre-conditions	Test Steps	Test Data	Expected Results	Actual Result	Test Result
UT-01	Resume Parsing	Verify resume parsing functionality for valid resume format (PDF)	Access to chrome browser	1. Navigate to the tool's website 2. Upload a resume in PDF format. 3. Click "Analyze."	Valid resume in PDF format with listed skills	Tool successfully extracts and displays skills from the resume	Pass/Fail	Pass/Fail
UT-02	Job Description Parsing	Verify job description parsing functionality for a valid job description format (PDF)	Access to Chrome Browser	1. Navigate to the tool's website. 2. Upload a job description in PDF format. 3. Click "Analyze."	Valid job description in PDF format with skill requirements	Tool successfully extracts and displays required skills from the job description	Pass/Fail	Pass/Fail
UT-03	Skill Matching	Validate skill matching between extracted	Resume and job description have	1. Click 'Match Skills' after uploading	Resume and job description with	Tool accurately identifies matched	Pass/Fail	Pass/Fail

		resume skills and job description skills	been uploaded	resume and job description.	overlapping and unique skills	and missing skills		
UT-04	Gap Analysis	Verify gap analysis between user skills and job requirements	Resume and job description have been uploaded	1. Click 'Analyze Gaps' after skill matching.	Resume with partial skill overlap with job description	Tool displays skills in the resume that are missing in the job description	Pass/Fail	Pass/Fail
UT-05	Learning Recommendations	Verify if the tool suggests relevant learning resources for missing skills	Skills gap analysis has been completed	1. Click 'Get Recommendations' after gap analysis.	Skill gaps identified in the previous step	Tool suggests courses/resources for the missing skills	Pass/Fail	Pass/Fail
UT-06	User Interface	Verify if skill matching and gap analysis results are displayed on the dashboard correctly	Completed skill matching and gap analysis	1. View dashboard after gap analysis.	Results from previous analysis steps	Dashboard shows visualizations for skill matches, gaps, and learning suggestions	Pass/Fail	Pass/Fail
UT-07	Resume Parsing	Validate error handling for unsupported resume formats	Validate error handling for unsupported resume formats	1. Navigate to the tool's website. 2. Upload a resume in .txt format. 3. Click 'Analyze'.	Unsupported resume format (.txt)	Tool displays an error message stating 'Unsupported file format'	Pass/Fail	Pass/Fail
UT-0	Skill	Test the	Resume	1. Click	Resume	Tool	Pass/F	Pass/Fail

8	Matching	behavior when resume has no skills listed	and job description n have been uploaded	'Match Skills' after uploading resume and job description with no skills.	with no skills listed	should display a message saying 'No skills detected in resume'	ail	
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