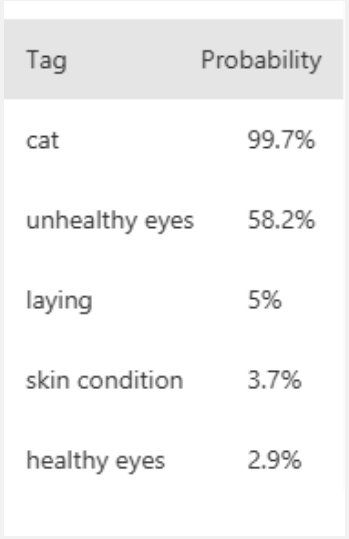
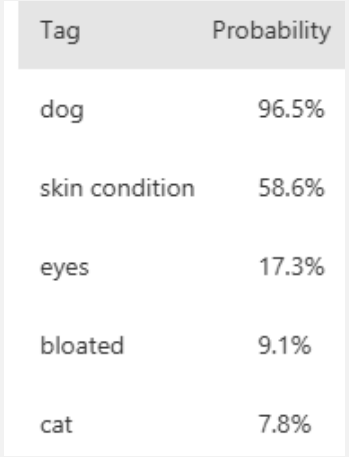
TEST CASE PLANNING AND EXECUTION TEMPLATE

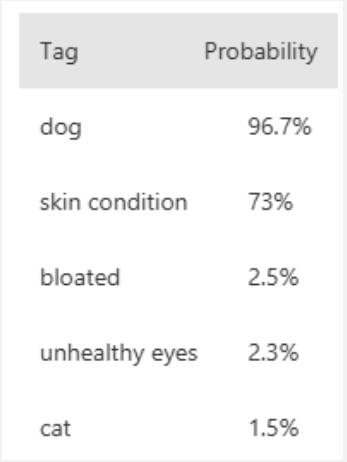
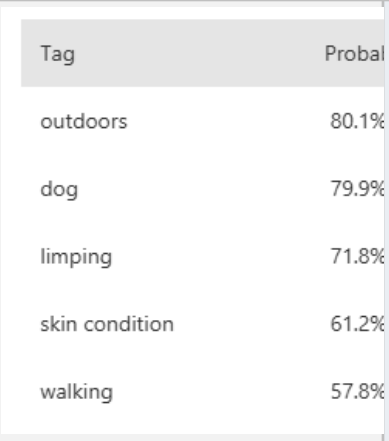
TEST TITLE	PRIORITY	TEST CASE ID	TEST NUMBER	TEST DATE
Animal Behaviour analysis AI	Top	1	1	01/04/2024

TEST DESCRIPTION	TEST DESIGNED BY	TEST EXECUTED BY	EXECUTION DATE
Animal Behaviour analysis AI image testing	Alex Pantus	Alex pantus	01/04/2024

TEST DESCRIPTION	TEST DEPENDENCIES	TEST CONDITIONS	TEST CONTROL
I ran images of animals and monitored the results on the major iterations we have	20-40% is low confidence, 40-65% is medium and 65%+ is high confidence. We want high confidence with low false positives.	The images were run directly on the custom API I made based off of Microsoft's Custom Vision Engine	All the images tested are outside of the data set on which the Ai was trained, to ensure we're measuring learning capacity rather than recall capacity

IMAGE ID	TEST DESCRIPTION	TEST DATE	EXPECTED RESULTS	ACTUAL RESULTS	PASS / FAIL	ADDITIONAL NOTES
01	 Iteration 7	01/04/2025	I expected the results to be good as we trained with a good number of high quality images	Tag / Probability: cat 99.7%; eyes 34.4%; skin condition 12%; happy 3.7%; laying 3.3%	Fail	Due to the poor confidence scores, 34% would rank it as "low" confidence in our confidence criteria. The model has been good at identifying animal type so that remains constant but after this training we improved the image set for diseases and trained it again for iteration 8 as the disease performance was our focus

02	 Iteration 8	01/04/2025	I expected the results would be better and more accurate as it is the latest Iteration especially on identifying it's a cat and identifying it's unhealthy eye		Pass	The confidence score for the unhealthy eyes is lower than I hoped but this is part of the limitations of the AI and images available online. Typically I would aim for 60-70% minimum but the lack of false positives make it good enough
	 Iteration 7	01/04/2025	I expected the results to be good as we trained with a good number of high quality images		Fail	The confidence score is ok, almost passing the 60% confidence threshold which would deem it as "high" in our criteria but the 17.3% and 9.1% false positives for eyes and bloated make it fail

	 Iteration 8	01/04/2025	I expected the results would be better more accurate especially on identifying and disease symptom		Pass	The confidence score for skin condition is higher, passing the 70% mark indicating the image set that was used for skin condition is better and more well-rounded in iteration 8 and comparatively better than the skin cognition data set.
	 Iteration 8		I expected the results here to be food but a bit poorer than the skin condition ones as it's less obvious in this photo		Pass	Limping got to 71.8% score, making it pass the 65% mark therefore we can label it as high confidence. It's even better that it did it on a quite zoomed out photo.

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