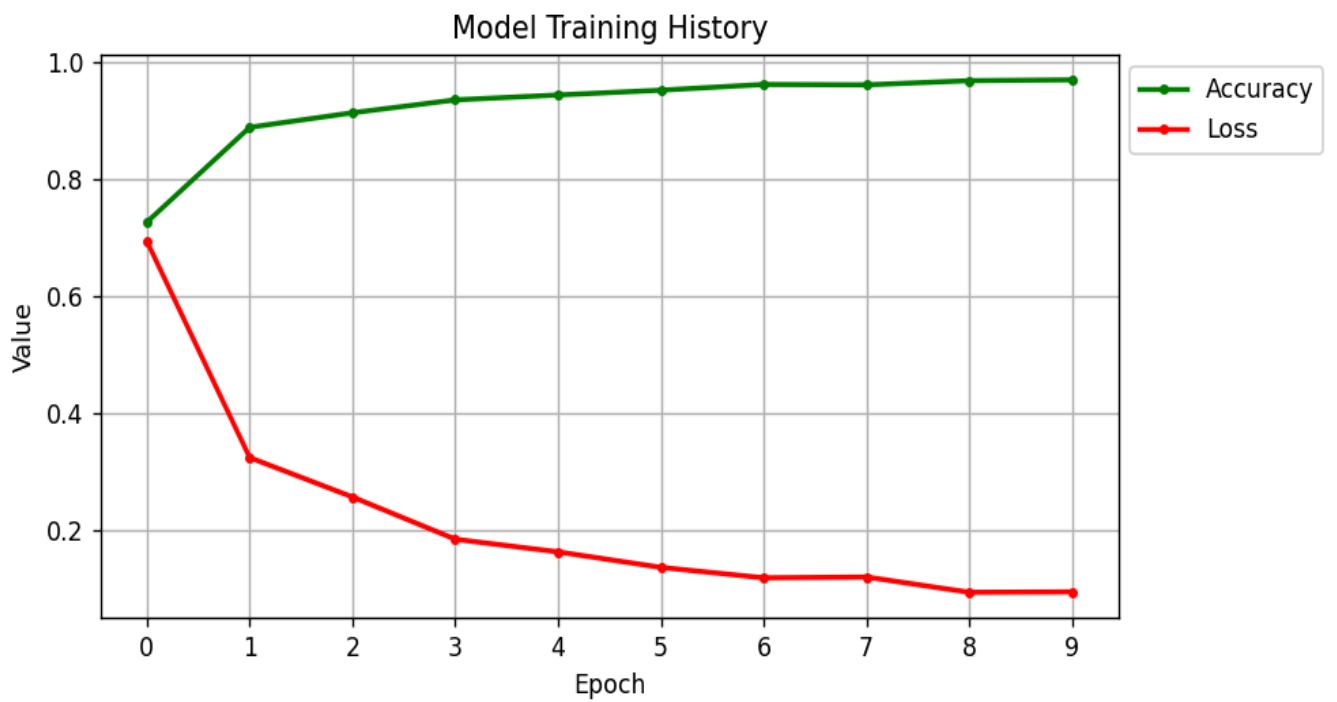
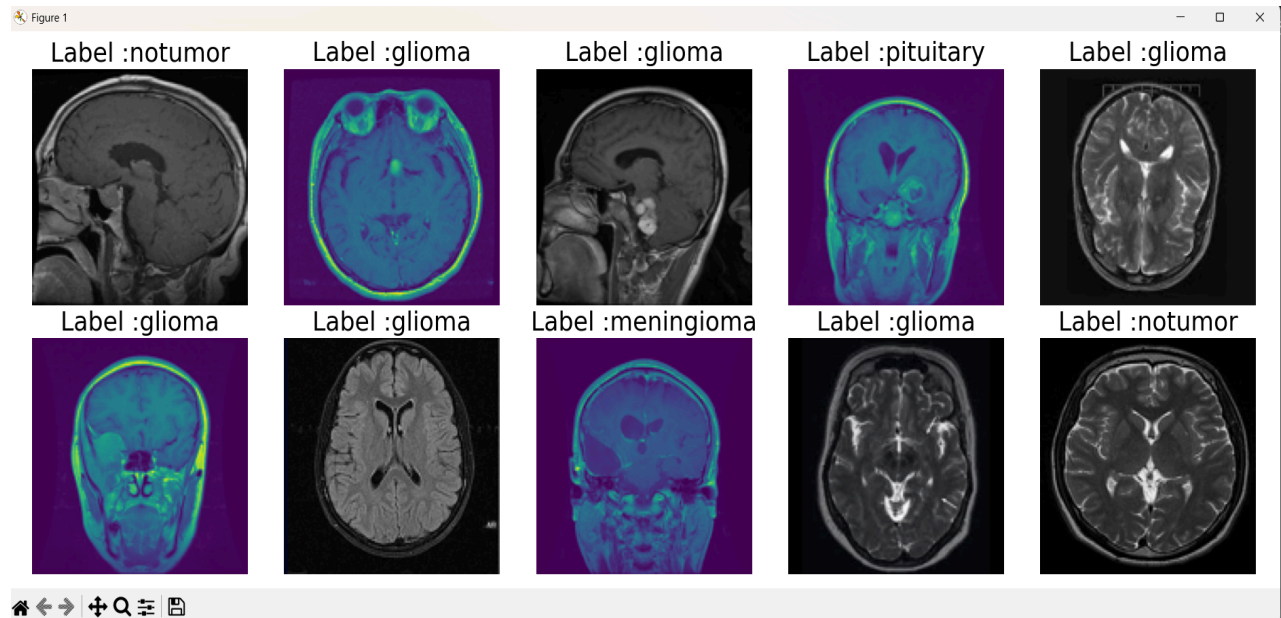
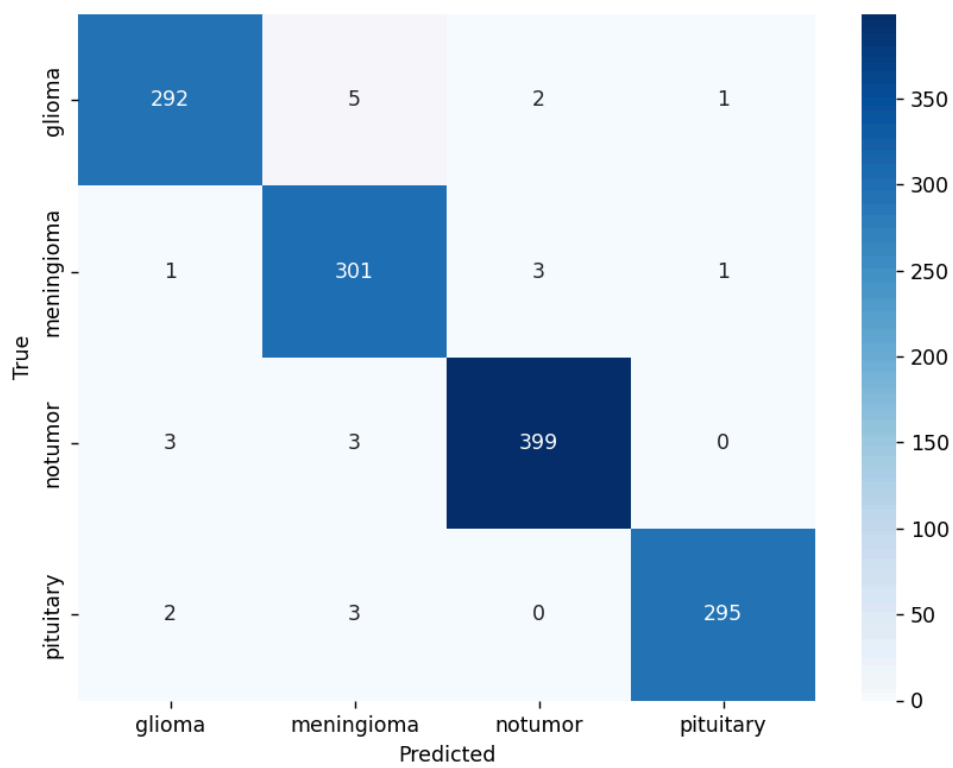
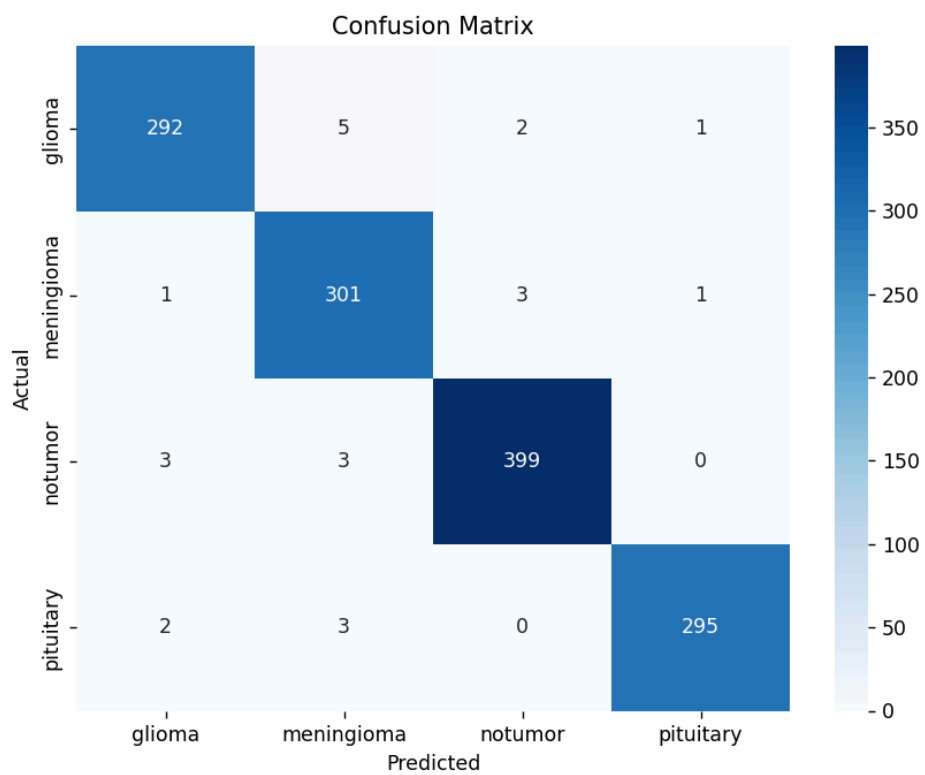
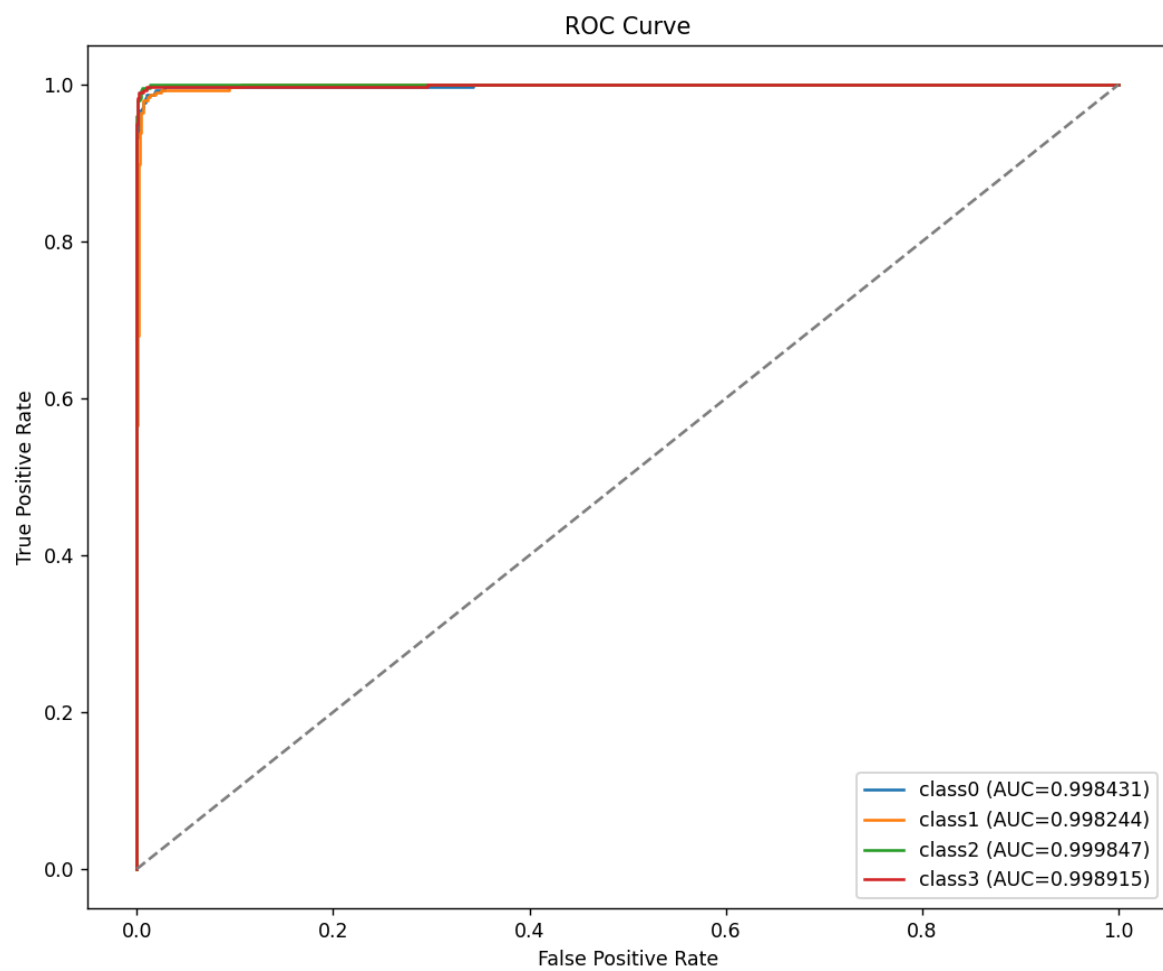


RESULTS:







Classification Report:

	precision	recall	f1-score	support
0	0.98	0.97	0.98	300
1	0.96	0.98	0.97	306
2	0.99	0.99	0.99	405
3	0.99	0.98	0.99	300
accuracy			0.98	1311
macro avg	0.98	0.98	0.98	1311
weighted avg	0.98	0.98	0.98	1311

1311 (1311, 4)

(1311,)

Precision: 0.98

Recall: 0.98

F1 Score: 0.98

Confusion Matrix:

```
[[292  5  2  1]
 [  1 301  3  1]
 [  3  3 399  0]
 [  2  3  0 295]]
```

Model: "sequential"

Layer (type)	Output Shape	Param #
vgg16 (Functional)	(None, 4, 4, 512)	14,714,688
flatten (Flatten)	(None, 8192)	0
dropout (Dropout)	(None, 8192)	0
dense (Dense)	(None, 256)	2,097,408
dropout_1 (Dropout)	(None, 256)	0
dense_1 (Dense)	(None, 4)	1,028

Total params: 16,813,126 (64.14 MB)

Trainable params: 16,552,964 (63.14 MB)

Non-trainable params: 260,160 (1016.25 KB)

Optimizer params: 2 (12.00 B)