OUTPUT

```
...   Softmax tests passed

      Training Softmax Regression Model
      Iteration 0: Cost = 1.006823
      Iteration 100: Cost = 0.319428
      Iteration 200: Cost = 0.251376
      Iteration 300: Cost = 0.211741
      Iteration 400: Cost = 0.185004
      Iteration 500: Cost = 0.165744
      Iteration 600: Cost = 0.151226
      Iteration 700: Cost = 0.139898
      Iteration 800: Cost = 0.130812
      Iteration 900: Cost = 0.123360
      Iteration 999: Cost = 0.117192
```
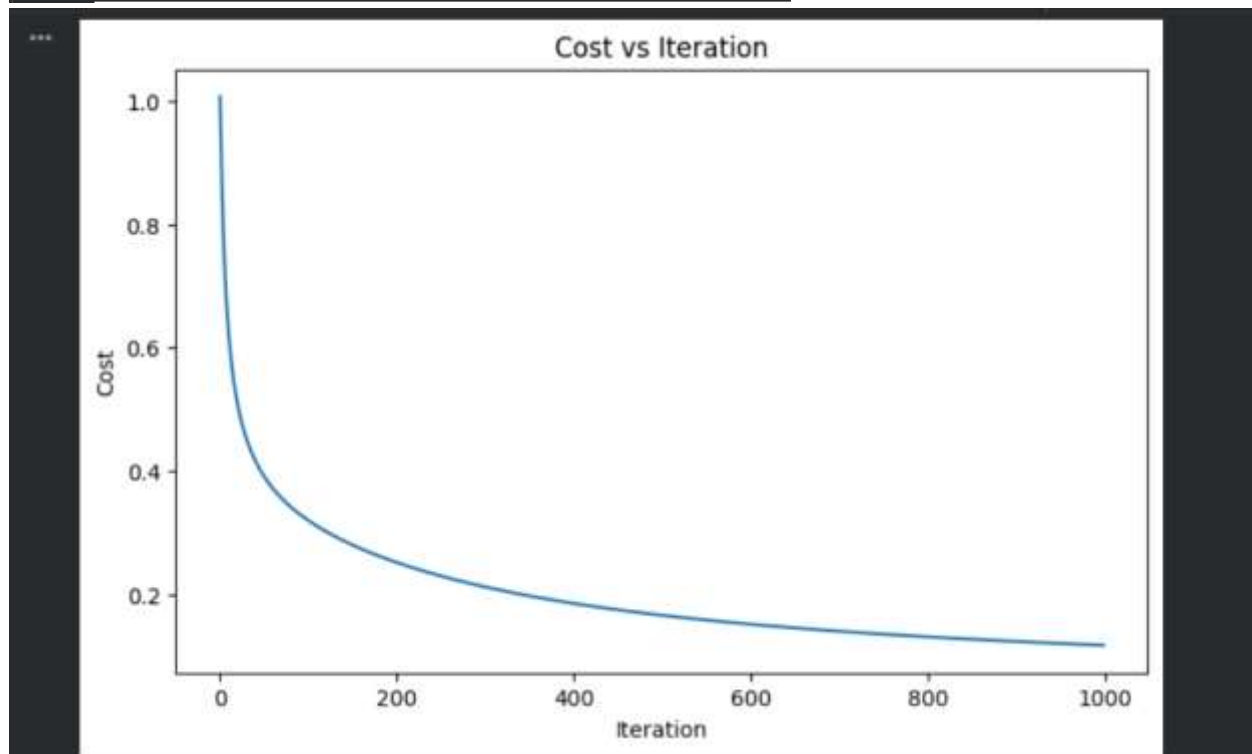
```
Train Cost: 0.1172
Test Cost: 0.1575
Test Accuracy: 93.33%

Confusion Matrix:
 [[10  0  0]
 [ 0  9  1]
 [ 0  1  9]]
Precision: 0.93
Recall: 0.93
F1-Score: 0.93
```


Confusion Matrix