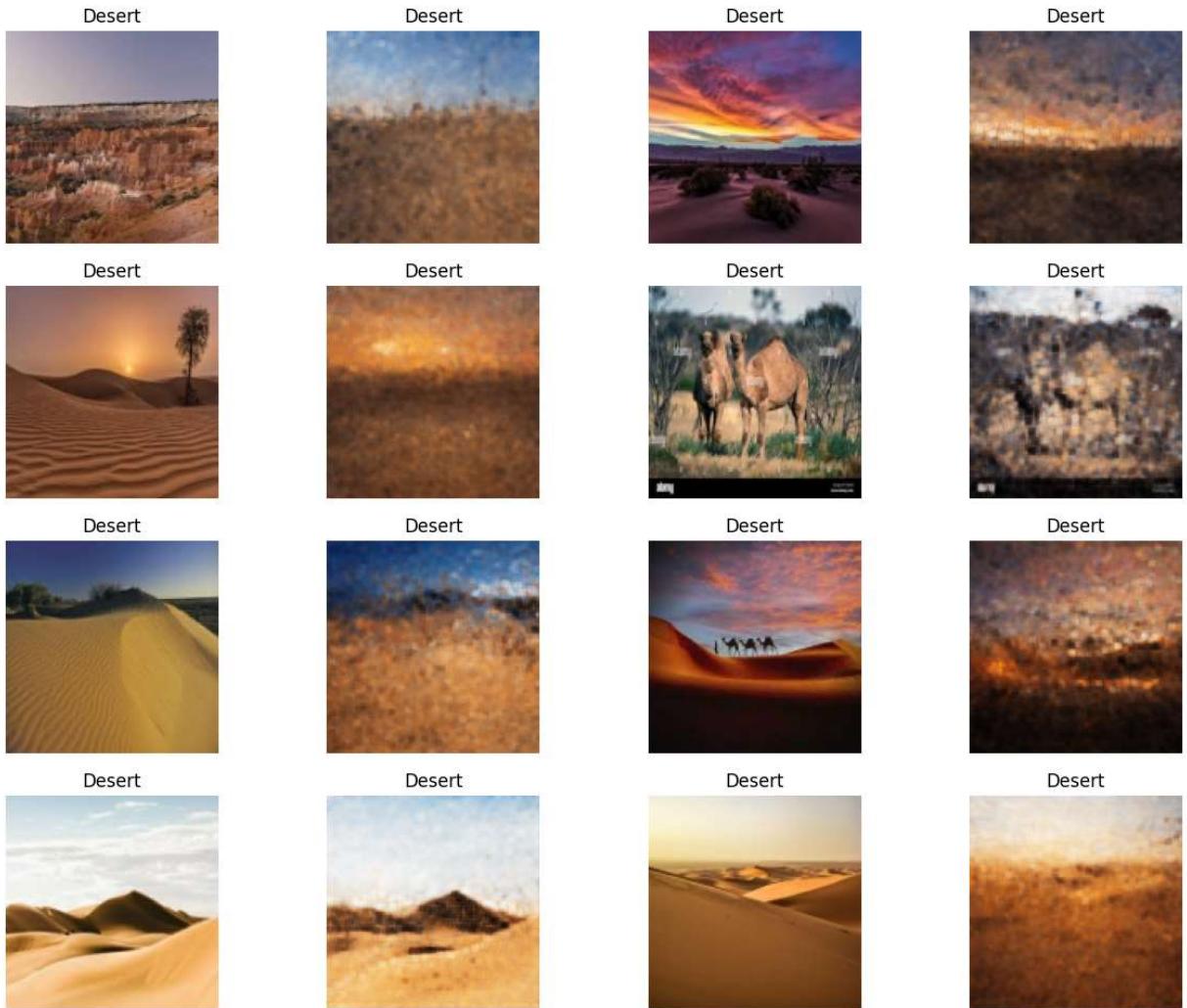
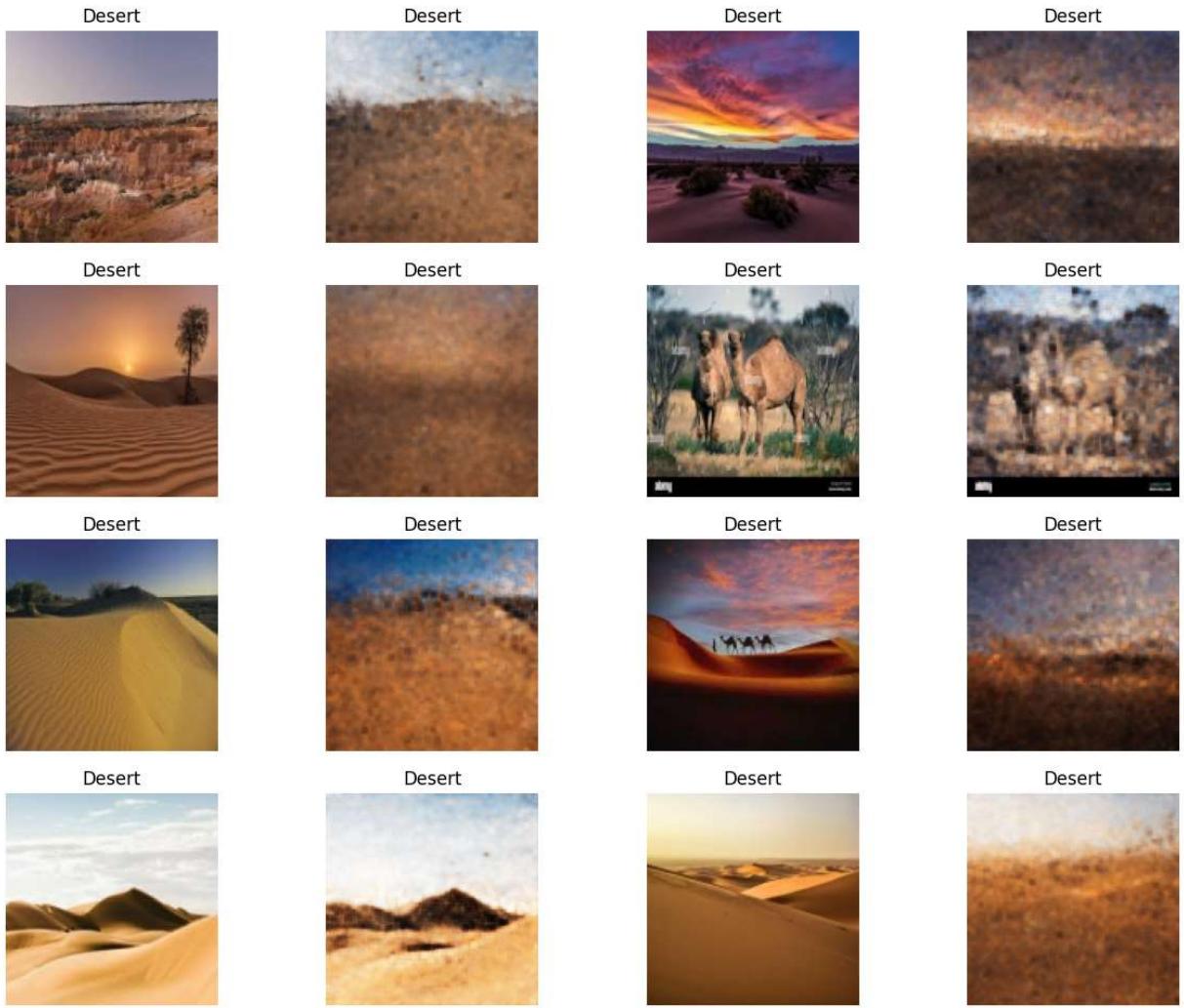


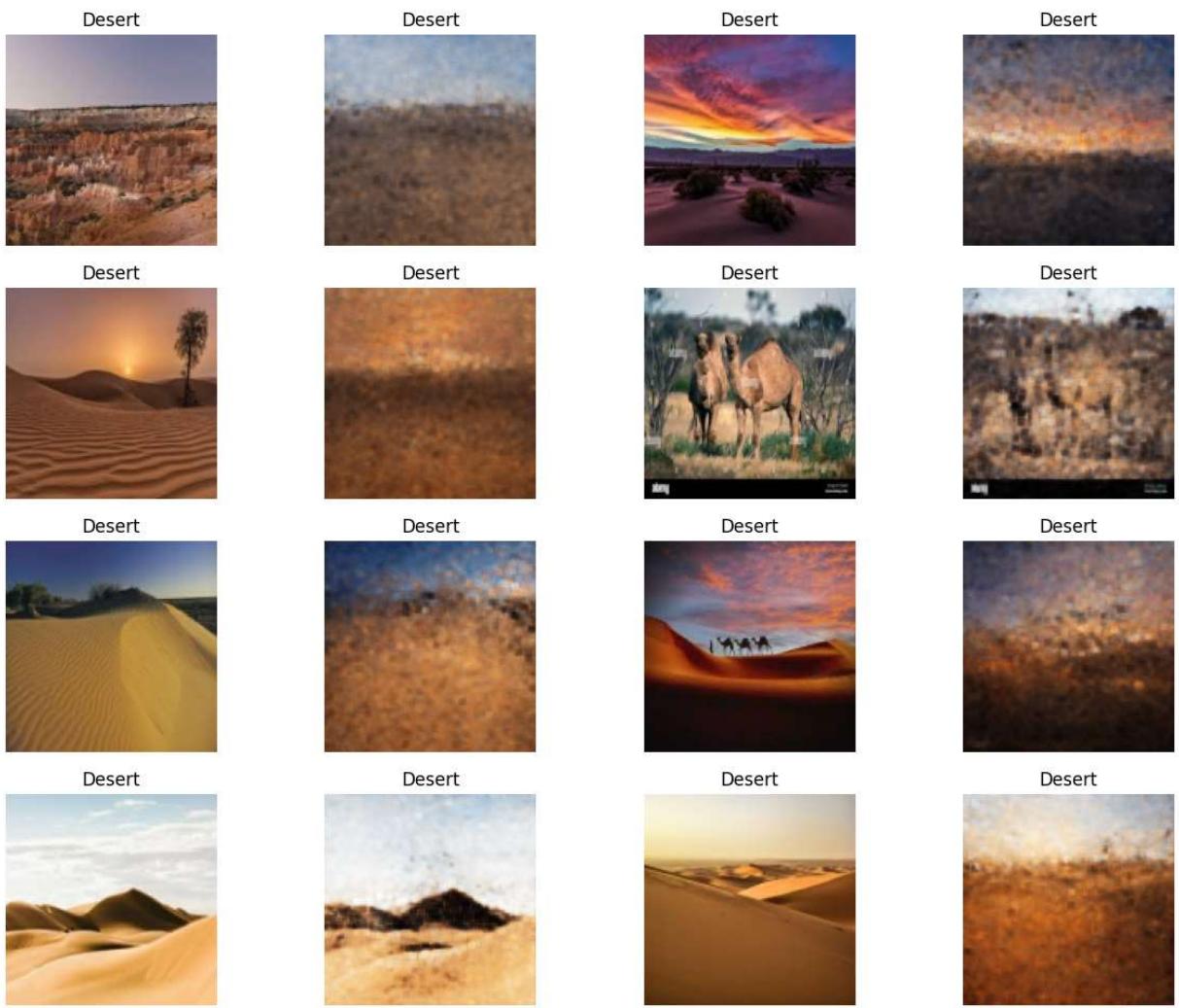
```
120/120 [=====] - 23s 193ms/step - loss: 34.1516 - reconstruction_error: 17.3912 - regularization_error: 16.7604 - val_loss: 53.8792 - val_reconstruction_error: 38.5916 - val_regularization_error: 15.2876
Epoch 502/1000
120/120 [=====] - 18s 153ms/step - loss: 34.2102 - reconstruction_error: 17.4462 - regularization_error: 16.7640 - val_loss: 54.5991 - val_reconstruction_error: 39.1897 - val_regularization_error: 15.4094
Epoch 503/1000
120/120 [=====] - 18s 152ms/step - loss: 34.2519 - reconstruction_error: 17.4165 - regularization_error: 16.8354 - val_loss: 54.7575 - val_reconstruction_error: 38.9477 - val_regularization_error: 15.8097
Epoch 504/1000
120/120 [=====] - 19s 153ms/step - loss: 34.3657 - reconstruction_error: 17.5455 - regularization_error: 16.8202 - val_loss: 55.0685 - val_reconstruction_error: 39.0124 - val_regularization_error: 16.0561
Epoch 505/1000
120/120 [=====] - 18s 147ms/step - loss: 34.1068 - reconstruction_error: 17.2220 - regularization_error: 16.8847 - val_loss: 54.1037 - val_reconstruction_error: 38.7882 - val_regularization_error: 15.3155
Epoch 506/1000
120/120 [=====] - 19s 154ms/step - loss: 34.2283 - reconstruction_error: 17.4847 - regularization_error: 16.7436 - val_loss: 54.7405 - val_reconstruction_error: 39.1031 - val_regularization_error: 15.6374
Epoch 507/1000
120/120 [=====] - 23s 185ms/step - loss: 34.4003 - reconstruction_error: 17.5569 - regularization_error: 16.8434 - val_loss: 55.2651 - val_reconstruction_error: 39.2127 - val_regularization_error: 16.0523
Epoch 508/1000
120/120 [=====] - 17s 139ms/step - loss: 34.0947 - reconstruction_error: 17.3323 - regularization_error: 16.7624 - val_loss: 54.9427 - val_reconstruction_error: 39.1316 - val_regularization_error: 15.8111
Epoch 509/1000
120/120 [=====] - 20s 170ms/step - loss: 34.0207 - reconstruction_error: 17.2624 - regularization_error: 16.7583 - val_loss: 55.3445 - val_reconstruction_error: 38.6452 - val_regularization_error: 16.6993
Epoch 510/1000
120/120 [=====] - 18s 148ms/step - loss: 34.3689 - reconstruction_error: 17.4371 - regularization_error: 16.9318 - val_loss: 55.2765 - val_reconstruction_error: 39.6282 - val_regularization_error: 15.6482
Epoch 511/1000
120/120 [=====] - ETA: 0s - loss: 34.1712 - reconstruction_error: 17.3481 - regularization_error: 16.8231
[2023-12-01 17:40:28.354948]: Reconstructing images for epoch 511 ...
```



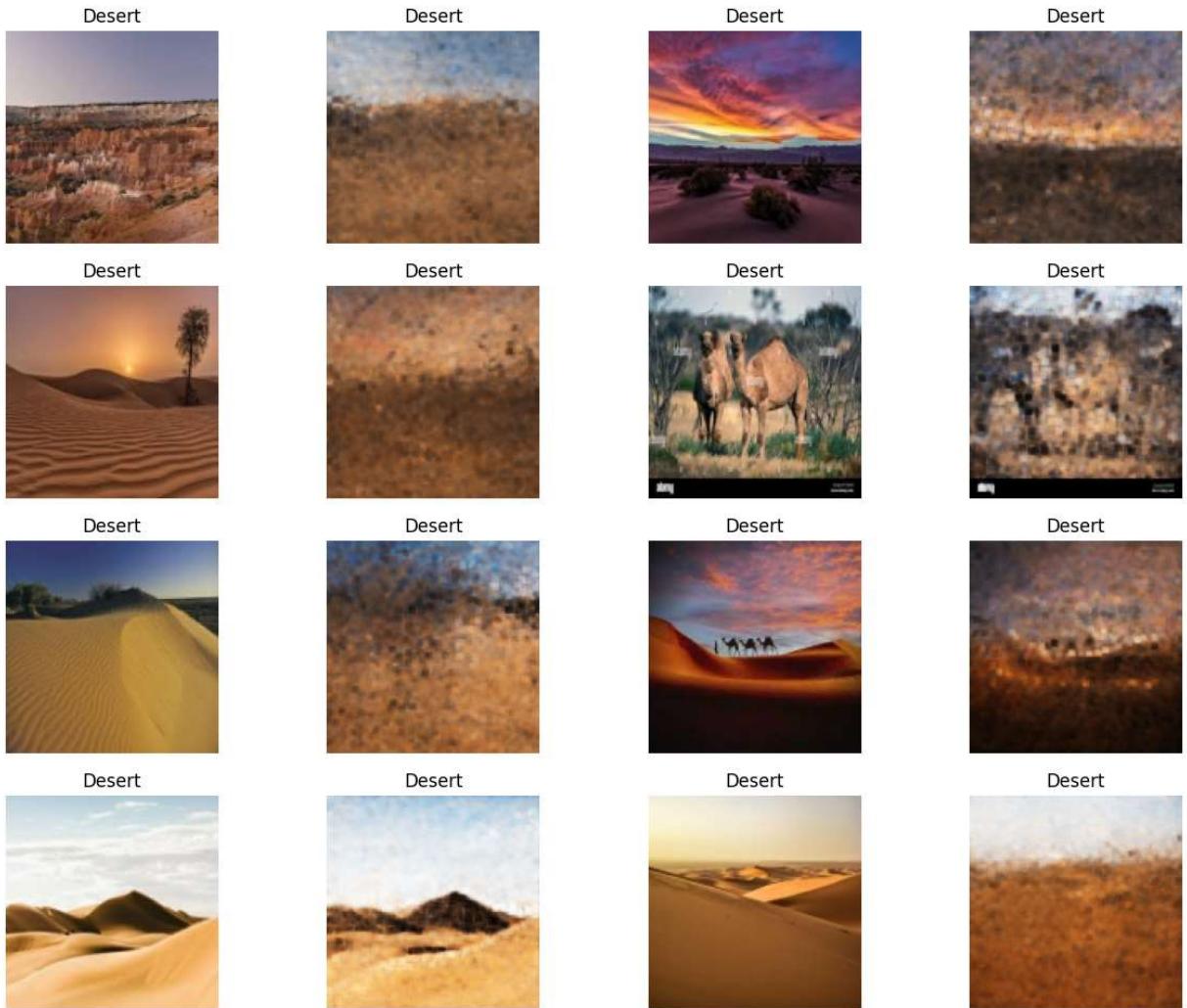
```
120/120 [=====] - 24s 199ms/step - loss: 34.1712 - reconstruction_error: 17.3481 - regularization_error: 16.8231 - val_loss: 55.4824 - val_reconstruction_error: 39.6873 - val_regularization_error: 15.7951
Epoch 512/1000
120/120 [=====] - 22s 180ms/step - loss: 34.1570 - reconstruction_error: 17.3244 - regularization_error: 16.8326 - val_loss: 55.1795 - val_reconstruction_error: 39.0977 - val_regularization_error: 16.0818
Epoch 513/1000
120/120 [=====] - 20s 162ms/step - loss: 34.0398 - reconstruction_error: 17.1966 - regularization_error: 16.8433 - val_loss: 54.6976 - val_reconstruction_error: 39.0017 - val_regularization_error: 15.6959
Epoch 514/1000
120/120 [=====] - 18s 148ms/step - loss: 33.9947 - reconstruction_error: 17.2373 - regularization_error: 16.7573 - val_loss: 54.4273 - val_reconstruction_error: 39.2193 - val_regularization_error: 15.2080
Epoch 515/1000
120/120 [=====] - 21s 175ms/step - loss: 34.0098 - reconstruction_error: 17.3023 - regularization_error: 16.7075 - val_loss: 54.5888 - val_reconstruction_error: 38.1021 - val_regularization_error: 16.4866
Epoch 516/1000
120/120 [=====] - 19s 159ms/step - loss: 34.1010 - reconstruction_error: 17.3519 - regularization_error: 16.7491 - val_loss: 54.2017 - val_reconstruction_error: 39.1908 - val_regularization_error: 15.0109
Epoch 517/1000
120/120 [=====] - 17s 141ms/step - loss: 34.0277 - reconstruction_error: 17.2618 - regularization_error: 16.7659 - val_loss: 54.0724 - val_reconstruction_error: 38.2846 - val_regularization_error: 15.7879
Epoch 518/1000
120/120 [=====] - 19s 156ms/step - loss: 34.2202 - reconstruction_error: 17.3643 - regularization_error: 16.8559 - val_loss: 54.9745 - val_reconstruction_error: 38.8320 - val_regularization_error: 16.1426
Epoch 519/1000
120/120 [=====] - 20s 163ms/step - loss: 34.0869 - reconstruction_error: 17.1928 - regularization_error: 16.8941 - val_loss: 54.5873 - val_reconstruction_error: 38.8856 - val_regularization_error: 15.7016
Epoch 520/1000
120/120 [=====] - 16s 135ms/step - loss: 33.8538 - reconstruction_error: 17.0989 - regularization_error: 16.7548 - val_loss: 54.2013 - val_reconstruction_error: 38.6259 - val_regularization_error: 15.5754
Epoch 521/1000
120/120 [=====] - ETA: 0s - loss: 34.0214 - reconstruction_error: 17.2818 - regularization_error: 16.7395
[2023-12-01 17:43:41.475592]: Reconstructing images for epoch 521 ...
```



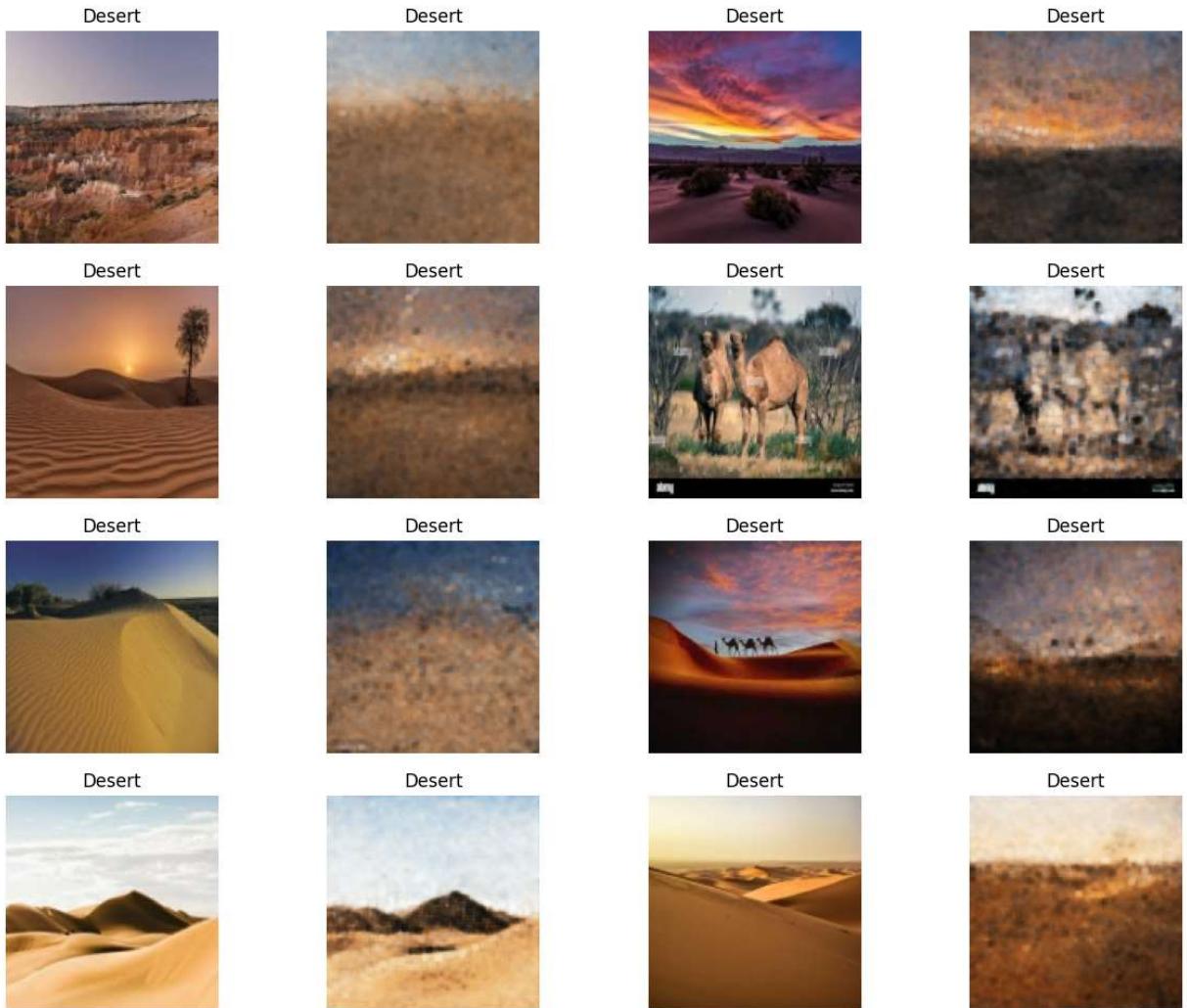
```
120/120 [=====] - 19s 155ms/step - loss: 34.0214 - reconstruction_error: 17.2818 - regularization_error: 16.7395 - val_loss: 54.1541 - val_reconstruction_error: 39.6388 - val_regularization_error: 14.5153
Epoch 522/1000
120/120 [=====] - 19s 159ms/step - loss: 33.9956 - reconstruction_error: 17.2345 - regularization_error: 16.7611 - val_loss: 54.8522 - val_reconstruction_error: 39.1596 - val_regularization_error: 15.6926
Epoch 523/1000
120/120 [=====] - 18s 147ms/step - loss: 34.0238 - reconstruction_error: 17.2330 - regularization_error: 16.7908 - val_loss: 55.1846 - val_reconstruction_error: 38.6658 - val_regularization_error: 16.5188
Epoch 524/1000
120/120 [=====] - 18s 149ms/step - loss: 34.5791 - reconstruction_error: 17.6275 - regularization_error: 16.9517 - val_loss: 54.5538 - val_reconstruction_error: 39.0754 - val_regularization_error: 15.4785
Epoch 525/1000
120/120 [=====] - 19s 159ms/step - loss: 33.9605 - reconstruction_error: 17.1596 - regularization_error: 16.8009 - val_loss: 54.8560 - val_reconstruction_error: 39.5943 - val_regularization_error: 15.2618
Epoch 526/1000
120/120 [=====] - 19s 155ms/step - loss: 34.5381 - reconstruction_error: 17.6110 - regularization_error: 16.9271 - val_loss: 55.5012 - val_reconstruction_error: 38.9451 - val_regularization_error: 16.5562
Epoch 527/1000
120/120 [=====] - 19s 162ms/step - loss: 34.2581 - reconstruction_error: 17.4410 - regularization_error: 16.8172 - val_loss: 55.2123 - val_reconstruction_error: 38.6519 - val_regularization_error: 16.5604
Epoch 528/1000
120/120 [=====] - 19s 155ms/step - loss: 33.9600 - reconstruction_error: 17.1093 - regularization_error: 16.8506 - val_loss: 55.3704 - val_reconstruction_error: 39.7224 - val_regularization_error: 15.6480
Epoch 529/1000
120/120 [=====] - 20s 160ms/step - loss: 34.0382 - reconstruction_error: 17.2002 - regularization_error: 16.8380 - val_loss: 55.0600 - val_reconstruction_error: 39.2093 - val_regularization_error: 15.8507
Epoch 530/1000
120/120 [=====] - 17s 140ms/step - loss: 34.0760 - reconstruction_error: 17.1548 - regularization_error: 16.9212 - val_loss: 55.3833 - val_reconstruction_error: 39.7626 - val_regularization_error: 15.6207
Epoch 531/1000
120/120 [=====] - ETA: 0s - loss: 34.0611 - reconstruction_error: 17.1927 - regularization_error: 16.8684
[2023-12-01 17:46:55.750642]: Reconstructing images for epoch 531 ...
```



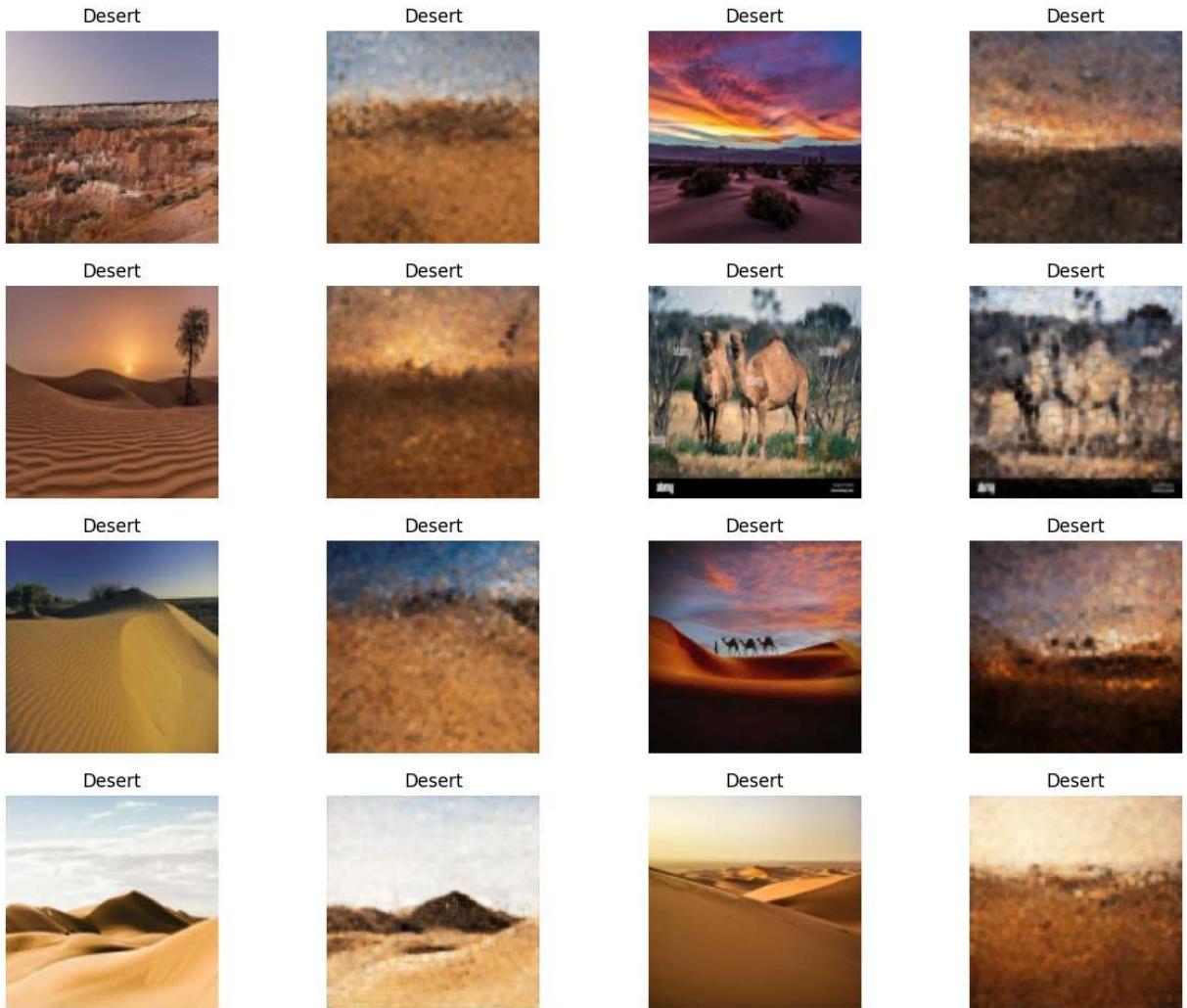
```
120/120 [=====] - 26s 217ms/step - loss: 34.0611 - reconstruction_error: 17.1927 - regularization_error: 16.8684 - val_loss: 55.1307 - val_reconstruction_error: 39.1537 - val_regularization_error: 15.9770
Epoch 532/1000
120/120 [=====] - 19s 154ms/step - loss: 33.7032 - reconstruction_error: 16.9622 - regularization_error: 16.7410 - val_loss: 55.3329 - val_reconstruction_error: 39.1418 - val_regularization_error: 16.1911
Epoch 533/1000
120/120 [=====] - 17s 138ms/step - loss: 33.8709 - reconstruction_error: 17.1329 - regularization_error: 16.7380 - val_loss: 54.9548 - val_reconstruction_error: 39.6238 - val_regularization_error: 15.3310
Epoch 534/1000
120/120 [=====] - 18s 150ms/step - loss: 34.1752 - reconstruction_error: 17.2091 - regularization_error: 16.9660 - val_loss: 54.8067 - val_reconstruction_error: 39.0518 - val_regularization_error: 15.7549
Epoch 535/1000
120/120 [=====] - 16s 136ms/step - loss: 33.8343 - reconstruction_error: 17.0560 - regularization_error: 16.7783 - val_loss: 54.5943 - val_reconstruction_error: 38.5851 - val_regularization_error: 16.0092
Epoch 536/1000
120/120 [=====] - 17s 140ms/step - loss: 33.7146 - reconstruction_error: 16.8954 - regularization_error: 16.8191 - val_loss: 54.2643 - val_reconstruction_error: 39.3758 - val_regularization_error: 14.8886
Epoch 537/1000
120/120 [=====] - 17s 138ms/step - loss: 33.8575 - reconstruction_error: 17.0567 - regularization_error: 16.8008 - val_loss: 55.5574 - val_reconstruction_error: 40.2717 - val_regularization_error: 15.2856
Epoch 538/1000
120/120 [=====] - 19s 156ms/step - loss: 33.9082 - reconstruction_error: 17.1152 - regularization_error: 16.7930 - val_loss: 54.9593 - val_reconstruction_error: 38.4215 - val_regularization_error: 16.5378
Epoch 539/1000
120/120 [=====] - 17s 142ms/step - loss: 34.0482 - reconstruction_error: 17.1826 - regularization_error: 16.8656 - val_loss: 55.0797 - val_reconstruction_error: 39.3782 - val_regularization_error: 15.7015
Epoch 540/1000
120/120 [=====] - 20s 169ms/step - loss: 33.7806 - reconstruction_error: 16.9679 - regularization_error: 16.8128 - val_loss: 55.3023 - val_reconstruction_error: 39.7195 - val_regularization_error: 15.5828
Epoch 541/1000
120/120 [=====] - ETA: 0s - loss: 34.0286 - reconstruction_error: 17.1612 - regularization_error: 16.8674
[2023-12-01 17:50:00.180770]: Reconstructing images for epoch 541 ...
```



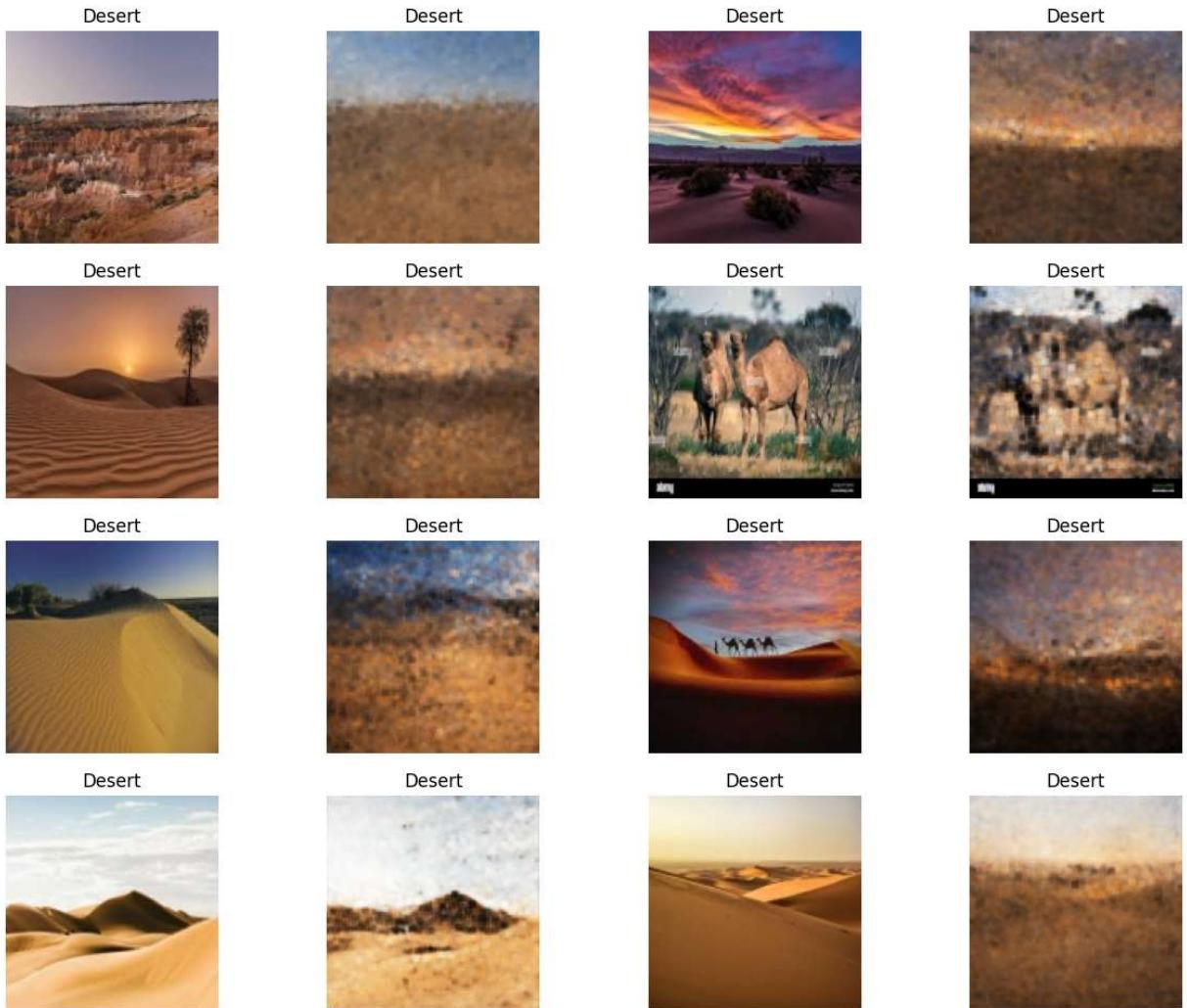
```
120/120 [=====] - 21s 177ms/step - loss: 34.0286 - reconstruction_error: 17.1612 - regularization_error: 16.8674 - val_loss: 55.8694 - val_reconstruction_error: 39.2424 - val_regularization_error: 16.6270
Epoch 542/1000
120/120 [=====] - 16s 132ms/step - loss: 33.9044 - reconstruction_error: 16.9892 - regularization_error: 16.9152 - val_loss: 54.5416 - val_reconstruction_error: 38.2662 - val_regularization_error: 16.2754
Epoch 543/1000
120/120 [=====] - 21s 169ms/step - loss: 33.8767 - reconstruction_error: 16.9916 - regularization_error: 16.8851 - val_loss: 56.0007 - val_reconstruction_error: 39.6899 - val_regularization_error: 16.3108
Epoch 544/1000
120/120 [=====] - 20s 165ms/step - loss: 33.8686 - reconstruction_error: 17.0102 - regularization_error: 16.8584 - val_loss: 54.8400 - val_reconstruction_error: 38.8188 - val_regularization_error: 16.0212
Epoch 545/1000
120/120 [=====] - 21s 173ms/step - loss: 33.7677 - reconstruction_error: 17.0245 - regularization_error: 16.7432 - val_loss: 54.9096 - val_reconstruction_error: 39.1166 - val_regularization_error: 15.7929
Epoch 546/1000
120/120 [=====] - 17s 142ms/step - loss: 33.7266 - reconstruction_error: 16.9468 - regularization_error: 16.7798 - val_loss: 55.7563 - val_reconstruction_error: 39.2995 - val_regularization_error: 16.4568
Epoch 547/1000
120/120 [=====] - 20s 164ms/step - loss: 33.7832 - reconstruction_error: 17.0515 - regularization_error: 16.7317 - val_loss: 54.4637 - val_reconstruction_error: 39.2403 - val_regularization_error: 15.2234
Epoch 548/1000
120/120 [=====] - 21s 175ms/step - loss: 33.6944 - reconstruction_error: 16.9323 - regularization_error: 16.7621 - val_loss: 54.8966 - val_reconstruction_error: 38.8778 - val_regularization_error: 16.0188
Epoch 549/1000
120/120 [=====] - 18s 150ms/step - loss: 33.9409 - reconstruction_error: 17.1717 - regularization_error: 16.7692 - val_loss: 54.4803 - val_reconstruction_error: 39.2165 - val_regularization_error: 15.2638
Epoch 550/1000
120/120 [=====] - 18s 153ms/step - loss: 33.6412 - reconstruction_error: 16.9102 - regularization_error: 16.7310 - val_loss: 55.0609 - val_reconstruction_error: 39.8761 - val_regularization_error: 15.1847
Epoch 551/1000
120/120 [=====] - ETA: 0s - loss: 33.6901 - reconstruction_error: 16.8471 - regularization_error: 16.8430
[2023-12-01 17:53:16.645354]: Reconstructing images for epoch 551 ...
```



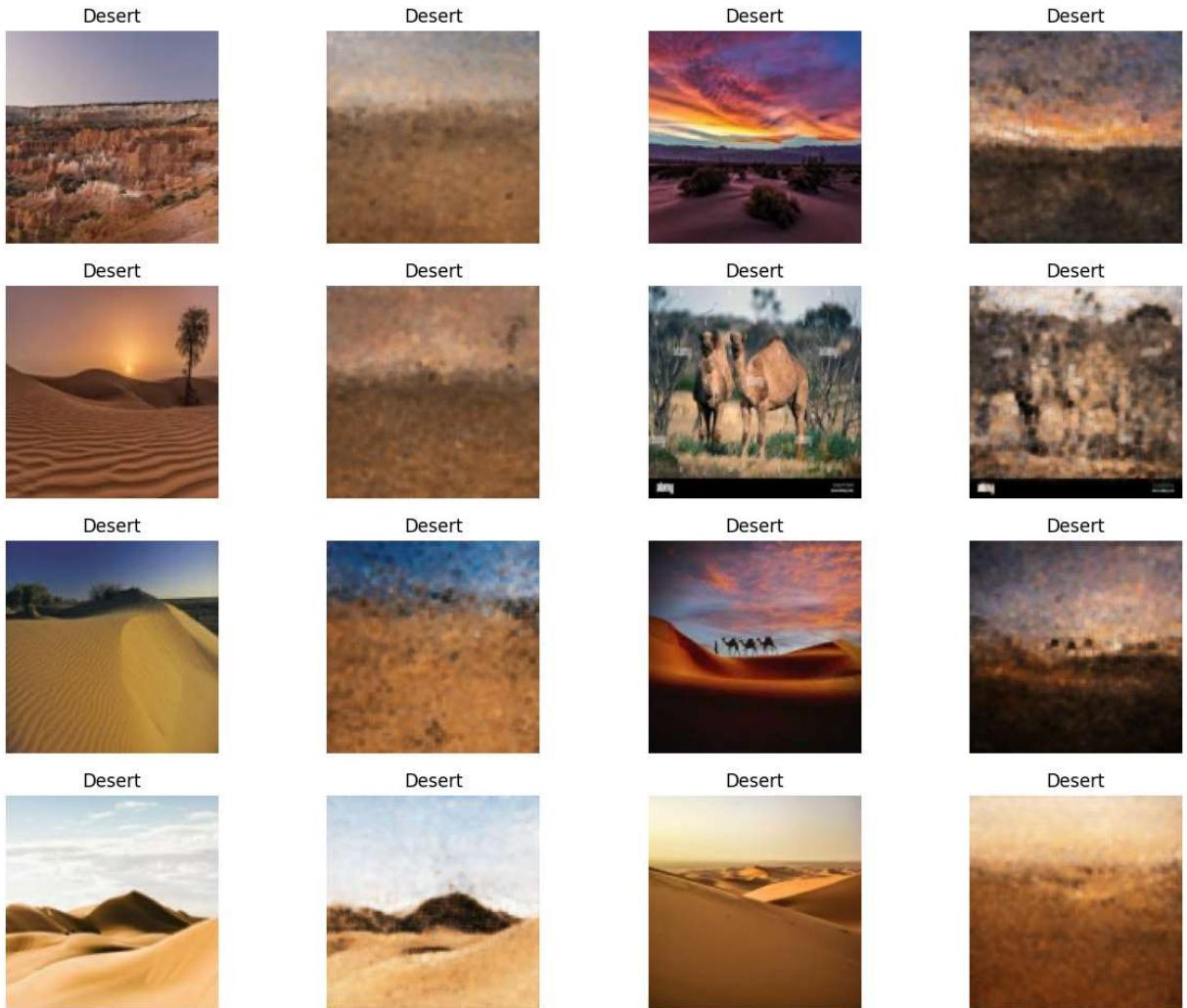
```
120/120 [=====] - 24s 197ms/step - loss: 33.6901 - reconstruction_error: 16.8471 - regularization_error: 16.8430 - val_loss: 55.4462 - val_reconstruction_error: 39.0085 - val_regularization_error: 16.4377
Epoch 552/1000
120/120 [=====] - 17s 137ms/step - loss: 33.9321 - reconstruction_error: 17.1403 - regularization_error: 16.7919 - val_loss: 55.3164 - val_reconstruction_error: 39.5462 - val_regularization_error: 15.7701
Epoch 553/1000
120/120 [=====] - 20s 170ms/step - loss: 33.9744 - reconstruction_error: 17.1409 - regularization_error: 16.8335 - val_loss: 55.0179 - val_reconstruction_error: 38.5033 - val_regularization_error: 16.5146
Epoch 554/1000
120/120 [=====] - 18s 148ms/step - loss: 33.7741 - reconstruction_error: 17.0002 - regularization_error: 16.7739 - val_loss: 55.7497 - val_reconstruction_error: 39.0580 - val_regularization_error: 16.6917
Epoch 555/1000
120/120 [=====] - 17s 142ms/step - loss: 33.7258 - reconstruction_error: 16.9278 - regularization_error: 16.7981 - val_loss: 55.5565 - val_reconstruction_error: 39.4006 - val_regularization_error: 16.1559
Epoch 556/1000
120/120 [=====] - 16s 133ms/step - loss: 33.7482 - reconstruction_error: 16.8996 - regularization_error: 16.8486 - val_loss: 55.1544 - val_reconstruction_error: 38.7677 - val_regularization_error: 16.3867
Epoch 557/1000
120/120 [=====] - 16s 135ms/step - loss: 33.9783 - reconstruction_error: 17.1788 - regularization_error: 16.7995 - val_loss: 55.1177 - val_reconstruction_error: 39.6011 - val_regularization_error: 15.5166
Epoch 558/1000
120/120 [=====] - 20s 164ms/step - loss: 33.6903 - reconstruction_error: 16.9550 - regularization_error: 16.7353 - val_loss: 54.6832 - val_reconstruction_error: 38.8597 - val_regularization_error: 15.8235
Epoch 559/1000
120/120 [=====] - 19s 155ms/step - loss: 33.8186 - reconstruction_error: 16.8677 - regularization_error: 16.9509 - val_loss: 55.0003 - val_reconstruction_error: 39.6228 - val_regularization_error: 15.3775
Epoch 560/1000
120/120 [=====] - 16s 130ms/step - loss: 33.7552 - reconstruction_error: 16.9318 - regularization_error: 16.8234 - val_loss: 54.3837 - val_reconstruction_error: 38.8821 - val_regularization_error: 15.5016
Epoch 561/1000
120/120 [=====] - ETA: 0s - loss: 33.8505 - reconstruction_error: 16.9599 - regularization_error: 16.8906
[2023-12-01 17:56:21.271634]: Reconstructing images for epoch 561 ...
```



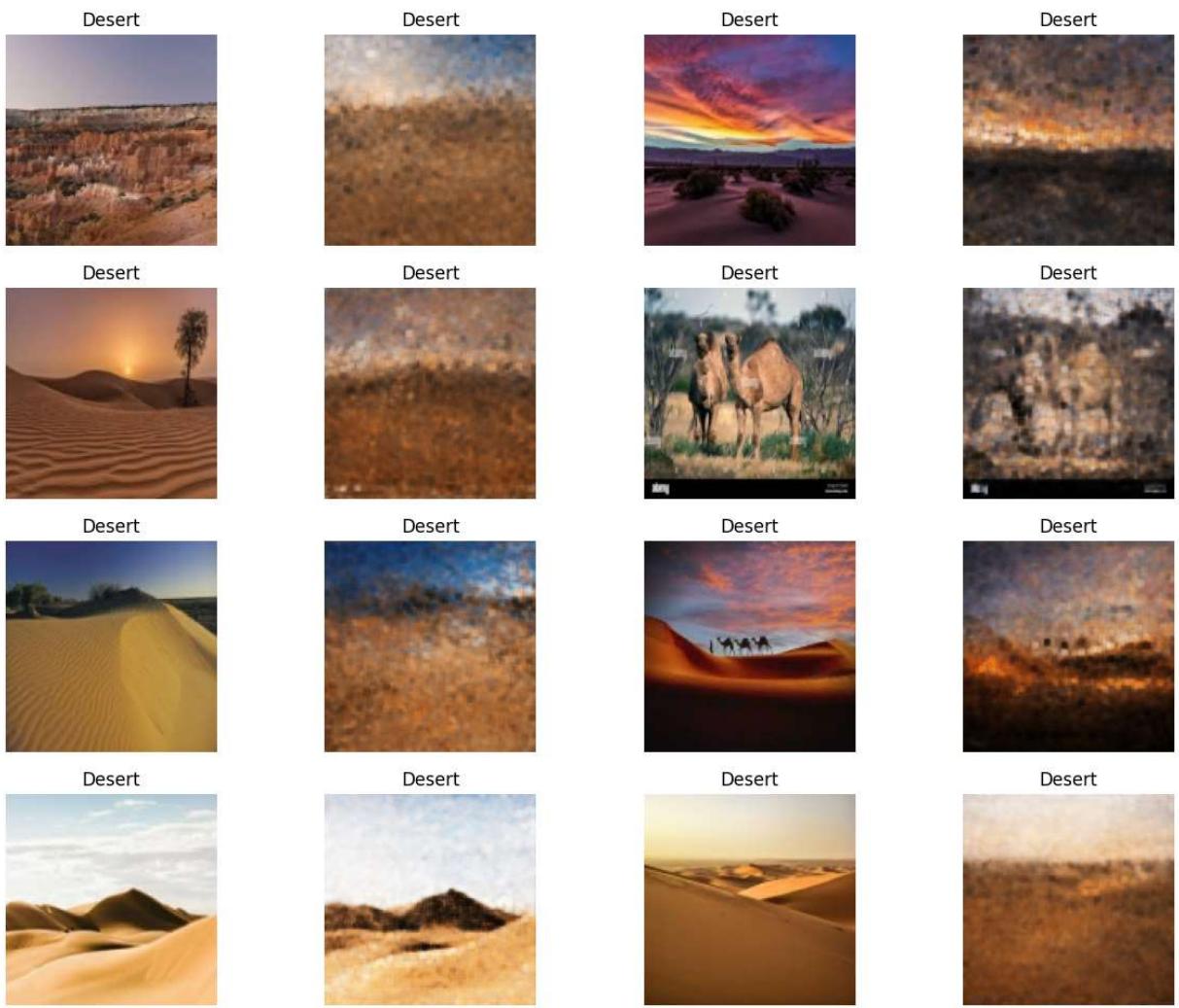
```
120/120 [=====] - 24s 201ms/step - loss: 33.8505 - reconstruction_error: 16.9599 - regularization_error: 16.8906 - val_loss: 55.9313 - val_reconstruction_error: 39.7124 - val_regularization_error: 16.2189
Epoch 562/1000
120/120 [=====] - 18s 150ms/step - loss: 33.7057 - reconstruction_error: 16.9125 - regularization_error: 16.7931 - val_loss: 55.2371 - val_reconstruction_error: 39.7383 - val_regularization_error: 15.4988
Epoch 563/1000
120/120 [=====] - 19s 156ms/step - loss: 33.6394 - reconstruction_error: 16.9047 - regularization_error: 16.7347 - val_loss: 56.1352 - val_reconstruction_error: 39.7311 - val_regularization_error: 16.4041
Epoch 564/1000
120/120 [=====] - 18s 151ms/step - loss: 33.7229 - reconstruction_error: 16.9311 - regularization_error: 16.7917 - val_loss: 54.3470 - val_reconstruction_error: 38.6699 - val_regularization_error: 15.6771
Epoch 565/1000
120/120 [=====] - 17s 140ms/step - loss: 33.4601 - reconstruction_error: 16.6678 - regularization_error: 16.7923 - val_loss: 54.6688 - val_reconstruction_error: 38.9088 - val_regularization_error: 15.7600
Epoch 566/1000
120/120 [=====] - 18s 152ms/step - loss: 33.7603 - reconstruction_error: 16.9174 - regularization_error: 16.8429 - val_loss: 55.1714 - val_reconstruction_error: 38.7129 - val_regularization_error: 16.4585
Epoch 567/1000
120/120 [=====] - 20s 160ms/step - loss: 33.4936 - reconstruction_error: 16.7520 - regularization_error: 16.7416 - val_loss: 55.3421 - val_reconstruction_error: 39.5775 - val_regularization_error: 15.7645
Epoch 568/1000
120/120 [=====] - 18s 149ms/step - loss: 33.8512 - reconstruction_error: 16.9868 - regularization_error: 16.8644 - val_loss: 55.4496 - val_reconstruction_error: 39.4648 - val_regularization_error: 15.9849
Epoch 569/1000
120/120 [=====] - 18s 149ms/step - loss: 33.5155 - reconstruction_error: 16.7538 - regularization_error: 16.7617 - val_loss: 54.8019 - val_reconstruction_error: 38.9421 - val_regularization_error: 15.8597
Epoch 570/1000
120/120 [=====] - 20s 163ms/step - loss: 33.6242 - reconstruction_error: 16.7905 - regularization_error: 16.8337 - val_loss: 55.4344 - val_reconstruction_error: 40.0769 - val_regularization_error: 15.3575
Epoch 571/1000
120/120 [=====] - ETA: 0s - loss: 33.7129 - reconstruction_error: 16.7427 - regularization_error: 16.9702
[2023-12-01 17:59:26.529286]: Reconstructing images for epoch 571 ...
```



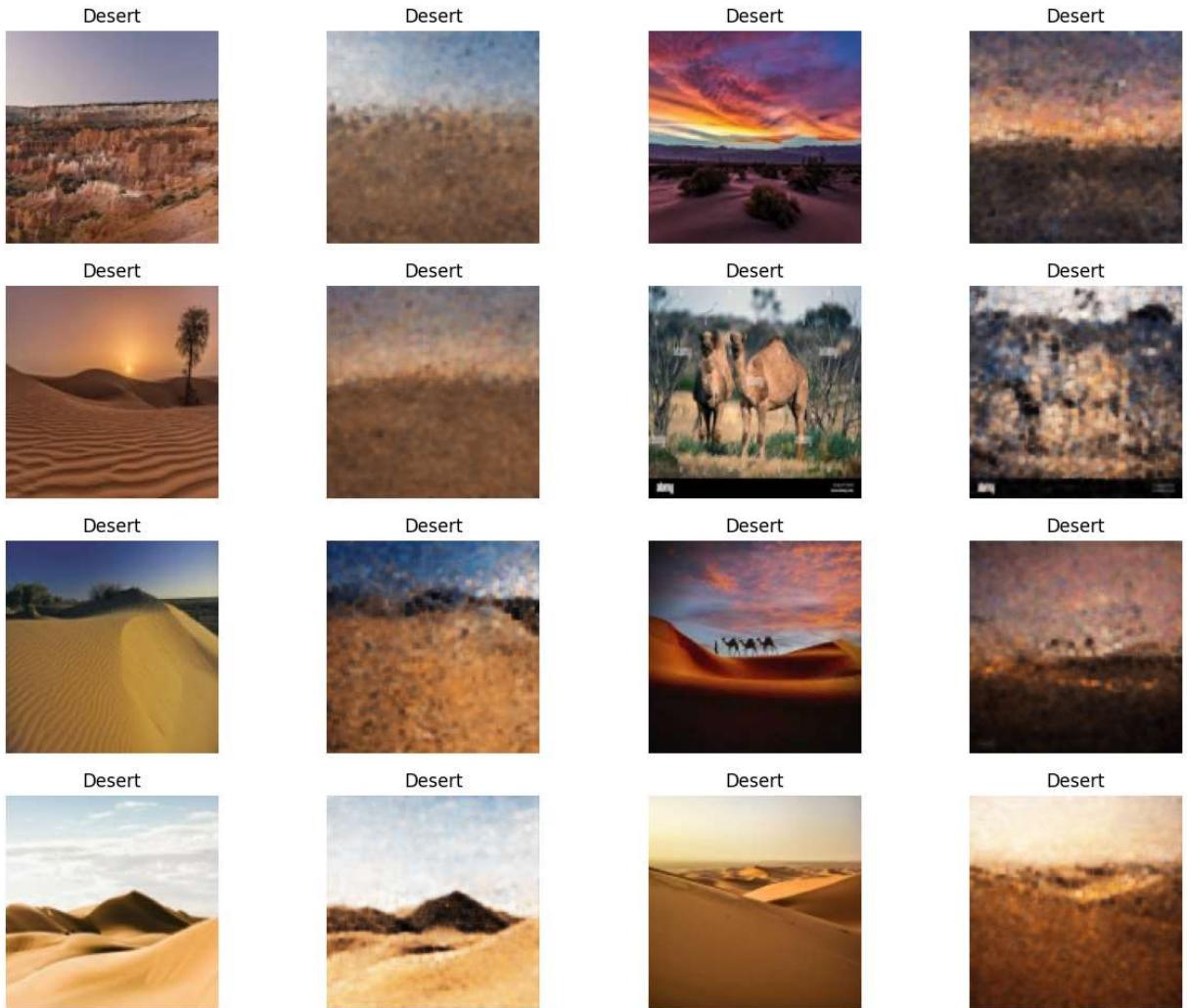
```
120/120 [=====] - 18s 149ms/step - loss: 33.7129 - reconstruction_error: 16.7427 - regularization_error: 16.9702 - val_loss: 54.5268 - val_reconstruction_error: 39.2382 - val_regularization_error: 15.2886
Epoch 572/1000
120/120 [=====] - 16s 136ms/step - loss: 33.5062 - reconstruction_error: 16.7192 - regularization_error: 16.7869 - val_loss: 55.9708 - val_reconstruction_error: 40.0499 - val_regularization_error: 15.9209
Epoch 573/1000
120/120 [=====] - 19s 156ms/step - loss: 33.5462 - reconstruction_error: 16.7526 - regularization_error: 16.7936 - val_loss: 55.3401 - val_reconstruction_error: 39.5070 - val_regularization_error: 15.8331
Epoch 574/1000
120/120 [=====] - 15s 125ms/step - loss: 33.5619 - reconstruction_error: 16.7127 - regularization_error: 16.8491 - val_loss: 54.5063 - val_reconstruction_error: 38.5636 - val_regularization_error: 15.9427
Epoch 575/1000
120/120 [=====] - 17s 145ms/step - loss: 33.6954 - reconstruction_error: 16.8339 - regularization_error: 16.8615 - val_loss: 55.3856 - val_reconstruction_error: 39.6167 - val_regularization_error: 15.7689
Epoch 576/1000
120/120 [=====] - 18s 152ms/step - loss: 33.5901 - reconstruction_error: 16.7715 - regularization_error: 16.8186 - val_loss: 55.2963 - val_reconstruction_error: 39.3924 - val_regularization_error: 15.9039
Epoch 577/1000
120/120 [=====] - 16s 136ms/step - loss: 33.8628 - reconstruction_error: 16.9226 - regularization_error: 16.9402 - val_loss: 55.8003 - val_reconstruction_error: 40.6290 - val_regularization_error: 15.1713
Epoch 578/1000
120/120 [=====] - 21s 169ms/step - loss: 33.6678 - reconstruction_error: 16.7806 - regularization_error: 16.8873 - val_loss: 56.1796 - val_reconstruction_error: 39.5057 - val_regularization_error: 16.6739
Epoch 579/1000
120/120 [=====] - 17s 142ms/step - loss: 33.5872 - reconstruction_error: 16.8132 - regularization_error: 16.7739 - val_loss: 54.7478 - val_reconstruction_error: 39.0216 - val_regularization_error: 15.7262
Epoch 580/1000
120/120 [=====] - 17s 142ms/step - loss: 33.4612 - reconstruction_error: 16.7246 - regularization_error: 16.7367 - val_loss: 54.9162 - val_reconstruction_error: 38.5131 - val_regularization_error: 16.4031
Epoch 581/1000
120/120 [=====] - ETA: 0s - loss: 33.4618 - reconstruction_error: 16.6825 - regularization_error: 16.7794
[2023-12-01 18:02:28.452116]: Reconstructing images for epoch 581 ...
```



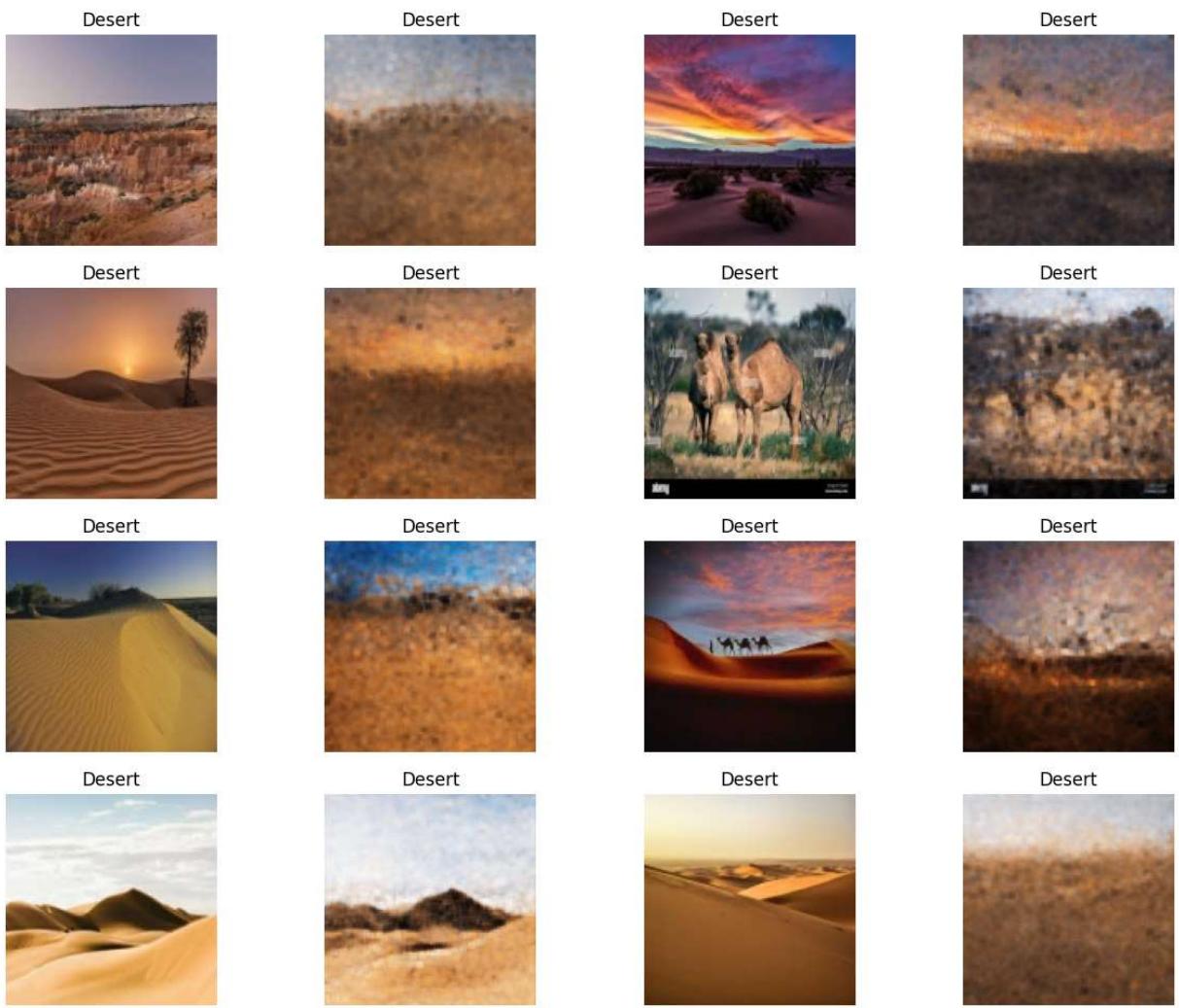
```
120/120 [=====] - 23s 190ms/step - loss: 33.4618 - reconstruction_error: 16.6825 - regularization_error: 16.7794 - val_loss: 55.2096 - val_reconstruction_error: 39.5765 - val_regularization_error: 15.6331
Epoch 582/1000
120/120 [=====] - 16s 131ms/step - loss: 33.6999 - reconstruction_error: 16.7759 - regularization_error: 16.9240 - val_loss: 54.7711 - val_reconstruction_error: 39.8692 - val_regularization_error: 14.9019
Epoch 583/1000
120/120 [=====] - 20s 161ms/step - loss: 33.3802 - reconstruction_error: 16.6282 - regularization_error: 16.7520 - val_loss: 56.1254 - val_reconstruction_error: 40.1275 - val_regularization_error: 15.9979
Epoch 584/1000
120/120 [=====] - 17s 141ms/step - loss: 33.5139 - reconstruction_error: 16.7444 - regularization_error: 16.7695 - val_loss: 55.3671 - val_reconstruction_error: 39.8447 - val_regularization_error: 15.5224
Epoch 585/1000
120/120 [=====] - 18s 144ms/step - loss: 33.4201 - reconstruction_error: 16.6301 - regularization_error: 16.7899 - val_loss: 55.4098 - val_reconstruction_error: 40.1776 - val_regularization_error: 15.2322
Epoch 586/1000
120/120 [=====] - 18s 148ms/step - loss: 33.5036 - reconstruction_error: 16.7564 - regularization_error: 16.7472 - val_loss: 54.5763 - val_reconstruction_error: 39.1768 - val_regularization_error: 15.3996
Epoch 587/1000
120/120 [=====] - 18s 146ms/step - loss: 33.6777 - reconstruction_error: 16.7479 - regularization_error: 16.9298 - val_loss: 55.5024 - val_reconstruction_error: 39.9292 - val_regularization_error: 15.5732
Epoch 588/1000
120/120 [=====] - 21s 174ms/step - loss: 33.5376 - reconstruction_error: 16.6891 - regularization_error: 16.8485 - val_loss: 56.7228 - val_reconstruction_error: 40.7584 - val_regularization_error: 15.9645
Epoch 589/1000
120/120 [=====] - 20s 162ms/step - loss: 33.5523 - reconstruction_error: 16.8064 - regularization_error: 16.7459 - val_loss: 56.1218 - val_reconstruction_error: 40.1397 - val_regularization_error: 15.9821
Epoch 590/1000
120/120 [=====] - 19s 157ms/step - loss: 33.4194 - reconstruction_error: 16.6332 - regularization_error: 16.7863 - val_loss: 55.1767 - val_reconstruction_error: 39.5999 - val_regularization_error: 15.5769
Epoch 591/1000
120/120 [=====] - ETA: 0s - loss: 33.3129 - reconstruction_error: 16.6088 - regularization_error: 16.7041
[2023-12-01 18:05:37.549804]: Reconstructing images for epoch 591 ...
```



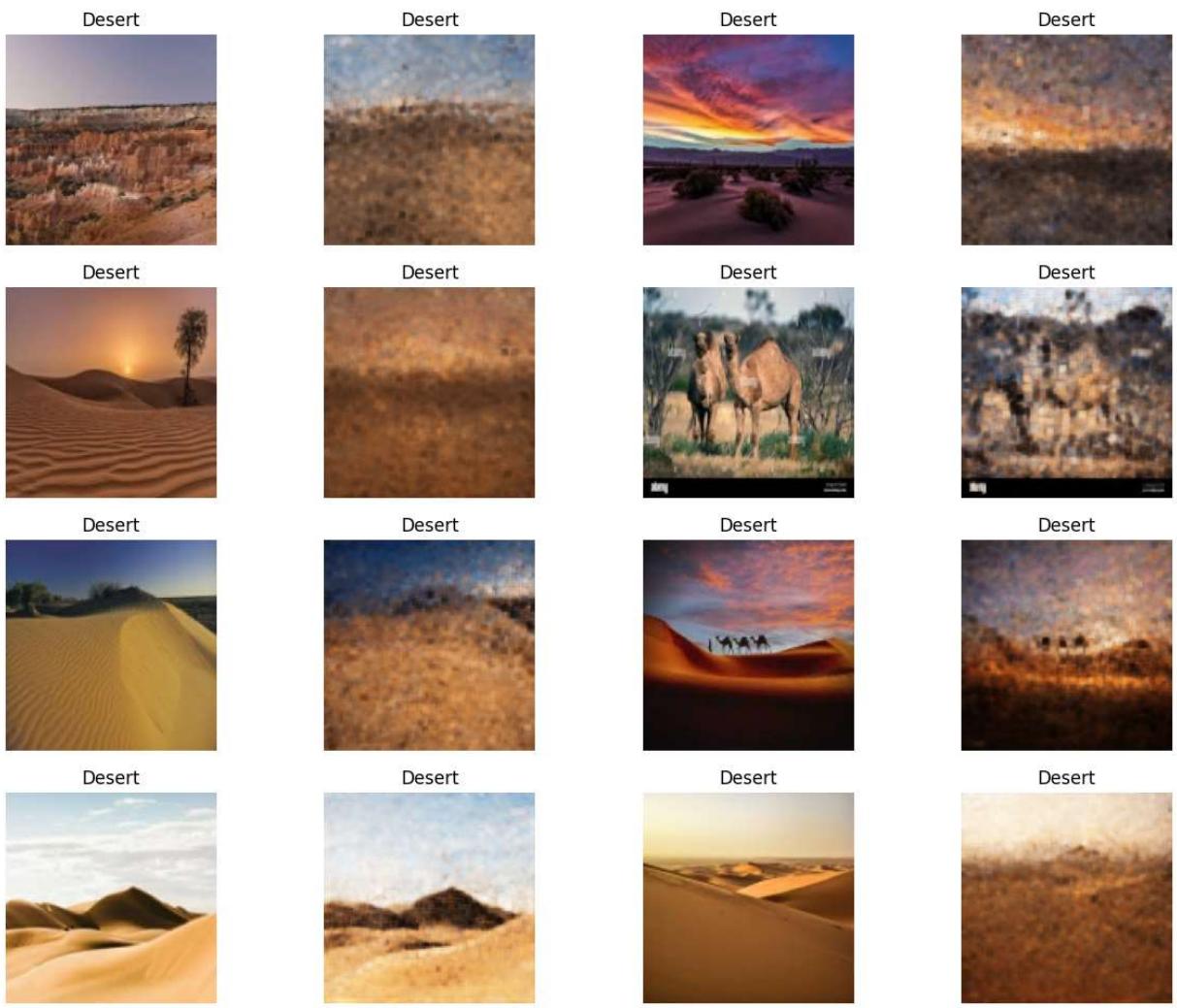
```
120/120 [=====] - 21s 174ms/step - loss: 33.3129 - reconstruction_error: 16.6088 - regularization_error: 16.7041 - val_loss: 54.7144 - val_reconstruction_error: 39.0944 - val_regularization_error: 15.6200
Epoch 592/1000
120/120 [=====] - 15s 126ms/step - loss: 33.3372 - reconstruction_error: 16.6875 - regularization_error: 16.6497 - val_loss: 55.0384 - val_reconstruction_error: 39.1626 - val_regularization_error: 15.8758
Epoch 593/1000
120/120 [=====] - 15s 125ms/step - loss: 33.2949 - reconstruction_error: 16.5786 - regularization_error: 16.7163 - val_loss: 54.1769 - val_reconstruction_error: 38.8474 - val_regularization_error: 15.3296
Epoch 594/1000
120/120 [=====] - 20s 167ms/step - loss: 33.5509 - reconstruction_error: 16.6745 - regularization_error: 16.8764 - val_loss: 56.2163 - val_reconstruction_error: 39.6036 - val_regularization_error: 16.6127
Epoch 595/1000
120/120 [=====] - 19s 159ms/step - loss: 33.3927 - reconstruction_error: 16.5683 - regularization_error: 16.8245 - val_loss: 54.7808 - val_reconstruction_error: 39.7708 - val_regularization_error: 15.0100
Epoch 596/1000
120/120 [=====] - 18s 149ms/step - loss: 33.3412 - reconstruction_error: 16.6105 - regularization_error: 16.7307 - val_loss: 55.6590 - val_reconstruction_error: 39.3377 - val_regularization_error: 16.3213
Epoch 597/1000
120/120 [=====] - 17s 143ms/step - loss: 33.3455 - reconstruction_error: 16.5918 - regularization_error: 16.7537 - val_loss: 55.0333 - val_reconstruction_error: 39.3440 - val_regularization_error: 15.6893
Epoch 598/1000
120/120 [=====] - 17s 141ms/step - loss: 33.3773 - reconstruction_error: 16.6066 - regularization_error: 16.7707 - val_loss: 54.5228 - val_reconstruction_error: 39.8265 - val_regularization_error: 14.6964
Epoch 599/1000
120/120 [=====] - 19s 160ms/step - loss: 33.3330 - reconstruction_error: 16.6455 - regularization_error: 16.6875 - val_loss: 55.0733 - val_reconstruction_error: 39.1714 - val_regularization_error: 15.9019
Epoch 600/1000
120/120 [=====] - 16s 135ms/step - loss: 33.2208 - reconstruction_error: 16.4635 - regularization_error: 16.7573 - val_loss: 55.5780 - val_reconstruction_error: 38.4594 - val_regularization_error: 17.1186
Epoch 601/1000
120/120 [=====] - ETA: 0s - loss: 33.3497 - reconstruction_error: 16.5046 - regularization_error: 16.8451
[2023-12-01 18:08:38.916440]: Reconstructing images for epoch 601 ...
```



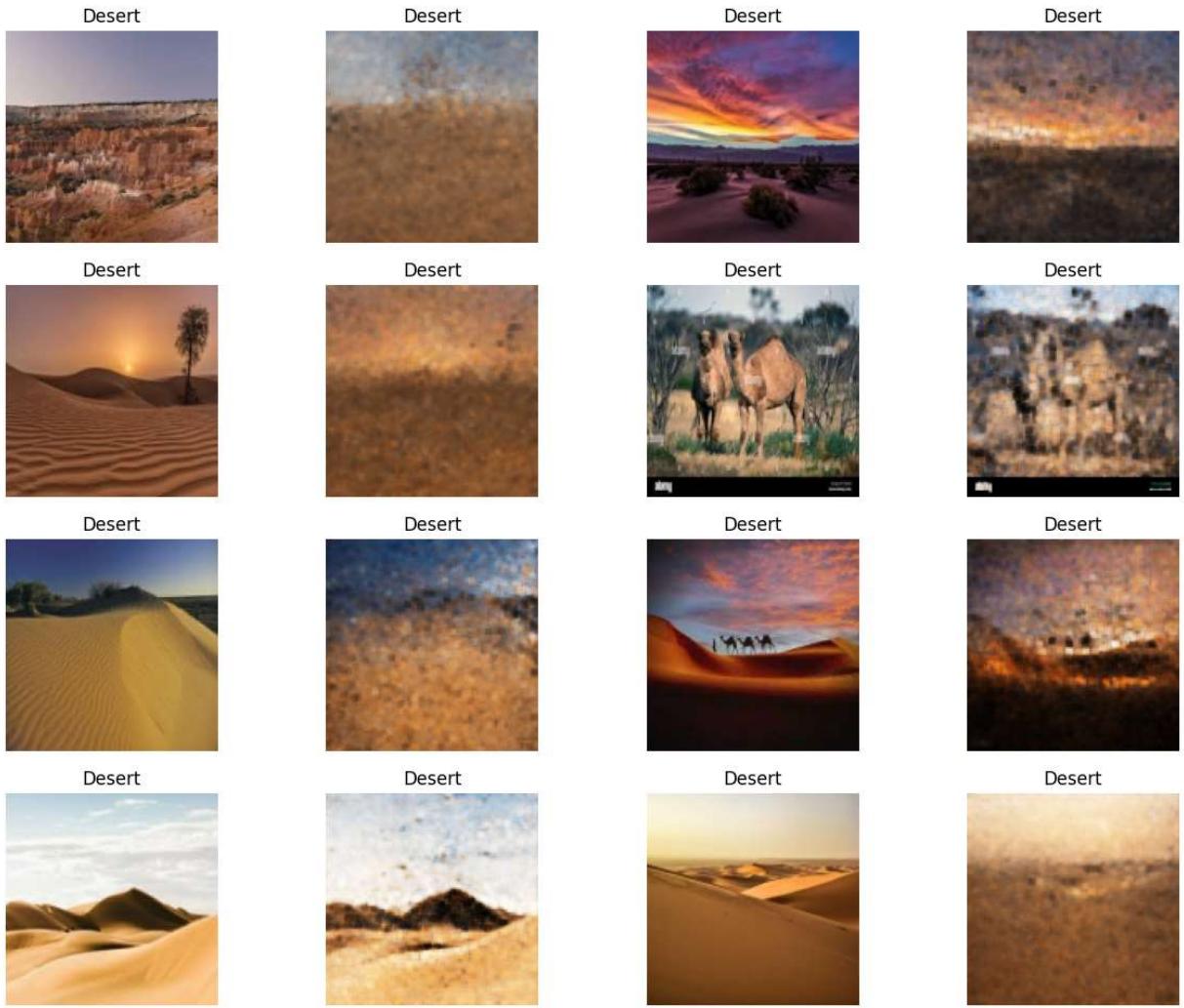
```
120/120 [=====] - 20s 166ms/step - loss: 33.3497 - reconstruction_error: 16.5046 - regularization_error: 16.8451 - val_loss: 55.4179 - val_reconstruction_error: 40.2121 - val_regularization_error: 15.2058
Epoch 602/1000
120/120 [=====] - 19s 161ms/step - loss: 33.4116 - reconstruction_error: 16.5149 - regularization_error: 16.8967 - val_loss: 56.3281 - val_reconstruction_error: 40.9538 - val_regularization_error: 15.3743
Epoch 603/1000
120/120 [=====] - 17s 140ms/step - loss: 33.4307 - reconstruction_error: 16.5976 - regularization_error: 16.8331 - val_loss: 55.6693 - val_reconstruction_error: 39.7290 - val_regularization_error: 15.9403
Epoch 604/1000
120/120 [=====] - 16s 134ms/step - loss: 33.4043 - reconstruction_error: 16.6412 - regularization_error: 16.7631 - val_loss: 55.1141 - val_reconstruction_error: 39.6939 - val_regularization_error: 15.4202
Epoch 605/1000
120/120 [=====] - 20s 165ms/step - loss: 33.4645 - reconstruction_error: 16.5413 - regularization_error: 16.9232 - val_loss: 55.7538 - val_reconstruction_error: 38.9379 - val_regularization_error: 16.8159
Epoch 606/1000
120/120 [=====] - 22s 179ms/step - loss: 33.5450 - reconstruction_error: 16.6929 - regularization_error: 16.8521 - val_loss: 56.4543 - val_reconstruction_error: 39.4013 - val_regularization_error: 17.0530
Epoch 607/1000
120/120 [=====] - 18s 151ms/step - loss: 33.1847 - reconstruction_error: 16.4450 - regularization_error: 16.7396 - val_loss: 54.8290 - val_reconstruction_error: 38.9403 - val_regularization_error: 15.8887
Epoch 608/1000
120/120 [=====] - 20s 163ms/step - loss: 33.2671 - reconstruction_error: 16.4849 - regularization_error: 16.7822 - val_loss: 55.7932 - val_reconstruction_error: 39.5405 - val_regularization_error: 16.2526
Epoch 609/1000
120/120 [=====] - 17s 140ms/step - loss: 33.2937 - reconstruction_error: 16.4479 - regularization_error: 16.8459 - val_loss: 55.3085 - val_reconstruction_error: 39.3716 - val_regularization_error: 15.9369
Epoch 610/1000
120/120 [=====] - 19s 158ms/step - loss: 33.3315 - reconstruction_error: 16.5257 - regularization_error: 16.8058 - val_loss: 54.7004 - val_reconstruction_error: 39.1959 - val_regularization_error: 15.5045
Epoch 611/1000
120/120 [=====] - ETA: 0s - loss: 33.4850 - reconstruction_error: 16.5979 - regularization_error: 16.8872
[2023-12-01 18:11:50.318023]: Reconstructing images for epoch 611 ...
```



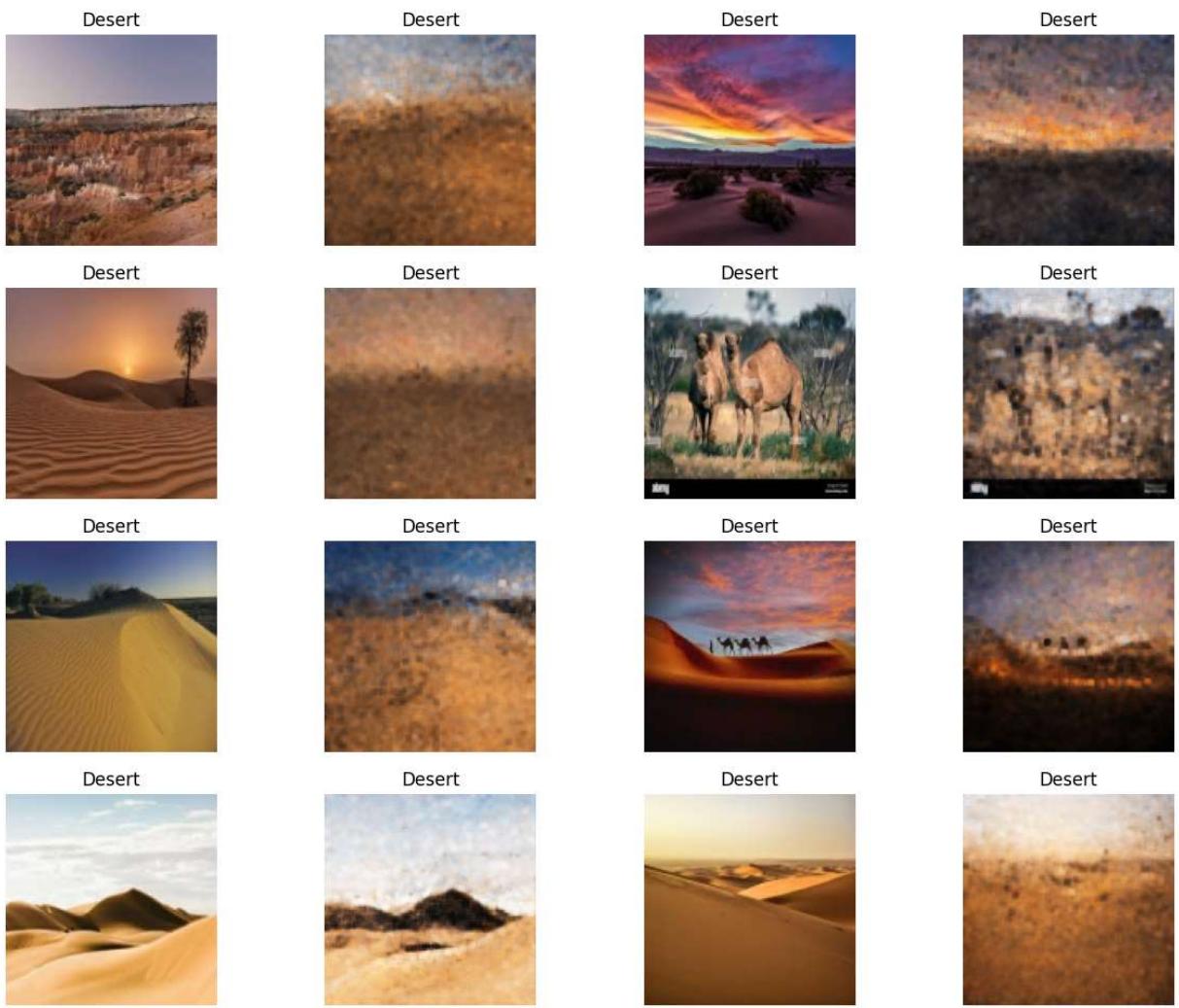
```
120/120 [=====] - 20s 169ms/step - loss: 33.4850 - reconstruction_error: 16.5979 - regularization_error: 16.8872 - val_loss: 54.1990 - val_reconstruction_error: 39.2295 - val_regularization_error: 14.9695
Epoch 612/1000
120/120 [=====] - 18s 147ms/step - loss: 33.2540 - reconstruction_error: 16.4535 - regularization_error: 16.8004 - val_loss: 54.7565 - val_reconstruction_error: 38.9125 - val_regularization_error: 15.8440
Epoch 613/1000
120/120 [=====] - 20s 163ms/step - loss: 33.1615 - reconstruction_error: 16.4761 - regularization_error: 16.6854 - val_loss: 56.5606 - val_reconstruction_error: 40.5931 - val_regularization_error: 15.9675
Epoch 614/1000
120/120 [=====] - 20s 161ms/step - loss: 33.5187 - reconstruction_error: 16.6843 - regularization_error: 16.8344 - val_loss: 56.8394 - val_reconstruction_error: 40.7379 - val_regularization_error: 16.1015
Epoch 615/1000
120/120 [=====] - 18s 144ms/step - loss: 33.5853 - reconstruction_error: 16.7369 - regularization_error: 16.8485 - val_loss: 54.7999 - val_reconstruction_error: 39.5795 - val_regularization_error: 15.2204
Epoch 616/1000
120/120 [=====] - 23s 187ms/step - loss: 33.2359 - reconstruction_error: 16.3838 - regularization_error: 16.8521 - val_loss: 55.1985 - val_reconstruction_error: 39.5810 - val_regularization_error: 15.6175
Epoch 617/1000
120/120 [=====] - 19s 156ms/step - loss: 33.2337 - reconstruction_error: 16.4483 - regularization_error: 16.7853 - val_loss: 55.9686 - val_reconstruction_error: 39.7600 - val_regularization_error: 16.2086
Epoch 618/1000
120/120 [=====] - 21s 172ms/step - loss: 33.2960 - reconstruction_error: 16.5293 - regularization_error: 16.7667 - val_loss: 55.2273 - val_reconstruction_error: 39.1343 - val_regularization_error: 16.0930
Epoch 619/1000
120/120 [=====] - 20s 165ms/step - loss: 33.1210 - reconstruction_error: 16.3915 - regularization_error: 16.7295 - val_loss: 55.4089 - val_reconstruction_error: 40.4487 - val_regularization_error: 14.9602
Epoch 620/1000
120/120 [=====] - 18s 144ms/step - loss: 32.9950 - reconstruction_error: 16.3341 - regularization_error: 16.6608 - val_loss: 55.8494 - val_reconstruction_error: 40.1604 - val_regularization_error: 15.6890
Epoch 621/1000
120/120 [=====] - ETA: 0s - loss: 33.2525 - reconstruction_error: 16.4740 - regularization_error: 16.7785
[2023-12-01 18:15:06.280888]: Reconstructing images for epoch 621 ...
```



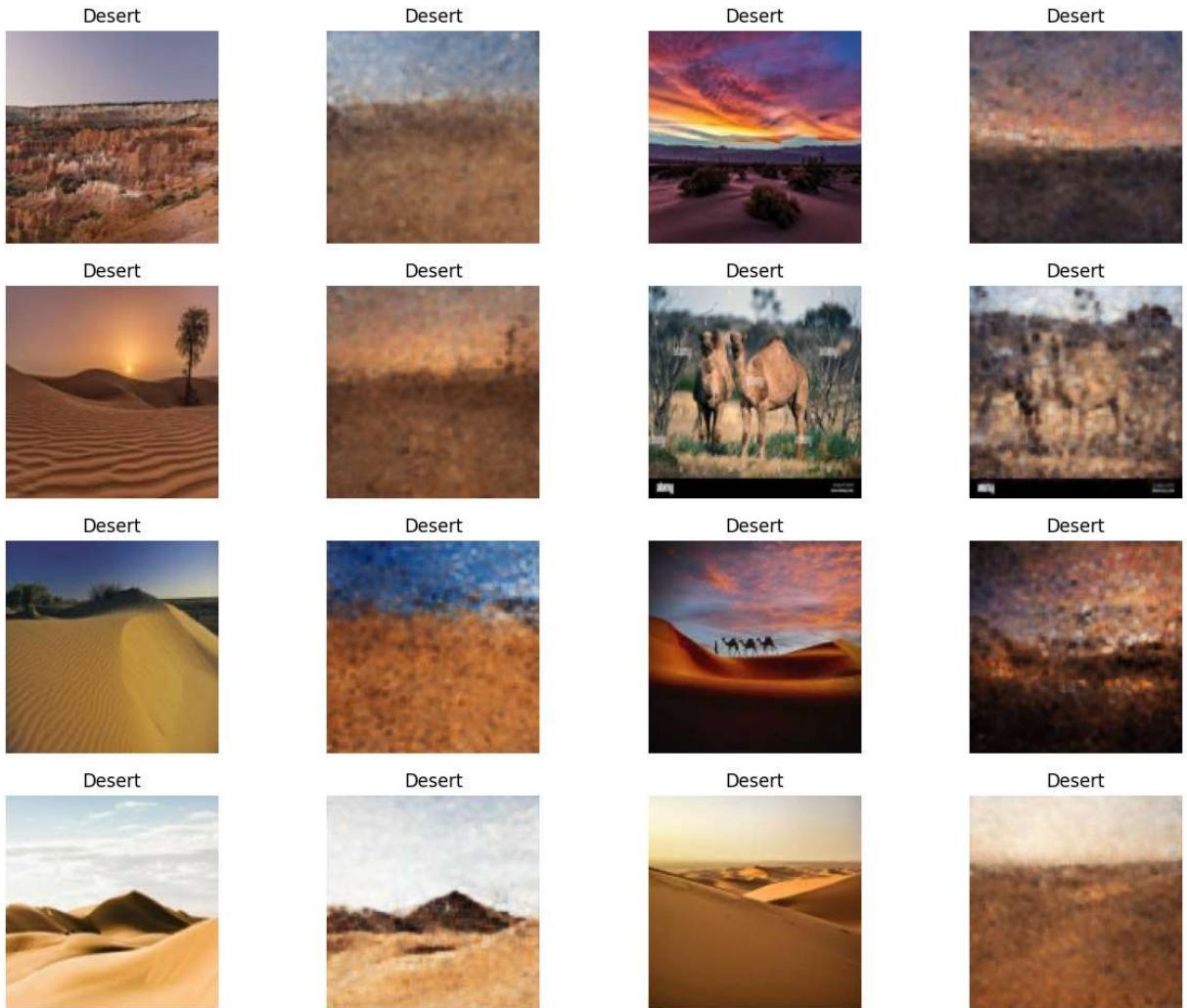
```
120/120 [=====] - 21s 172ms/step - loss: 33.2525 - reconstruction_error: 16.4740 - regularization_error: 16.7785 - val_loss: 55.2742 - val_reconstruction_error: 40.2915 - val_regularization_error: 14.9827
Epoch 622/1000
120/120 [=====] - 18s 149ms/step - loss: 33.4522 - reconstruction_error: 16.6029 - regularization_error: 16.8492 - val_loss: 54.8925 - val_reconstruction_error: 39.8722 - val_regularization_error: 15.0203
Epoch 623/1000
120/120 [=====] - 16s 135ms/step - loss: 33.2986 - reconstruction_error: 16.4640 - regularization_error: 16.8345 - val_loss: 55.0065 - val_reconstruction_error: 39.6917 - val_regularization_error: 15.3148
Epoch 624/1000
120/120 [=====] - 16s 128ms/step - loss: 33.0218 - reconstruction_error: 16.3589 - regularization_error: 16.6628 - val_loss: 55.3172 - val_reconstruction_error: 39.5382 - val_regularization_error: 15.7790
Epoch 625/1000
120/120 [=====] - 19s 156ms/step - loss: 33.3545 - reconstruction_error: 16.4869 - regularization_error: 16.8675 - val_loss: 54.8354 - val_reconstruction_error: 39.2188 - val_regularization_error: 15.6166
Epoch 626/1000
120/120 [=====] - 18s 149ms/step - loss: 33.2612 - reconstruction_error: 16.4015 - regularization_error: 16.8597 - val_loss: 54.2045 - val_reconstruction_error: 39.8331 - val_regularization_error: 14.3714
Epoch 627/1000
120/120 [=====] - 19s 155ms/step - loss: 33.3120 - reconstruction_error: 16.4537 - regularization_error: 16.8583 - val_loss: 55.3539 - val_reconstruction_error: 40.0888 - val_regularization_error: 15.2651
Epoch 628/1000
120/120 [=====] - 21s 174ms/step - loss: 33.3084 - reconstruction_error: 16.4709 - regularization_error: 16.8375 - val_loss: 56.0144 - val_reconstruction_error: 39.0598 - val_regularization_error: 16.9546
Epoch 629/1000
120/120 [=====] - 19s 160ms/step - loss: 33.1188 - reconstruction_error: 16.3876 - regularization_error: 16.7312 - val_loss: 55.2323 - val_reconstruction_error: 39.6655 - val_regularization_error: 15.5668
Epoch 630/1000
120/120 [=====] - 16s 130ms/step - loss: 33.2802 - reconstruction_error: 16.3748 - regularization_error: 16.9054 - val_loss: 56.0694 - val_reconstruction_error: 39.6651 - val_regularization_error: 16.4042
Epoch 631/1000
120/120 [=====] - ETA: 0s - loss: 33.3069 - reconstruction_error: 16.4320 - regularization_error: 16.8750
[2023-12-01 18:18:11.819021]: Reconstructing images for epoch 631 ...
```



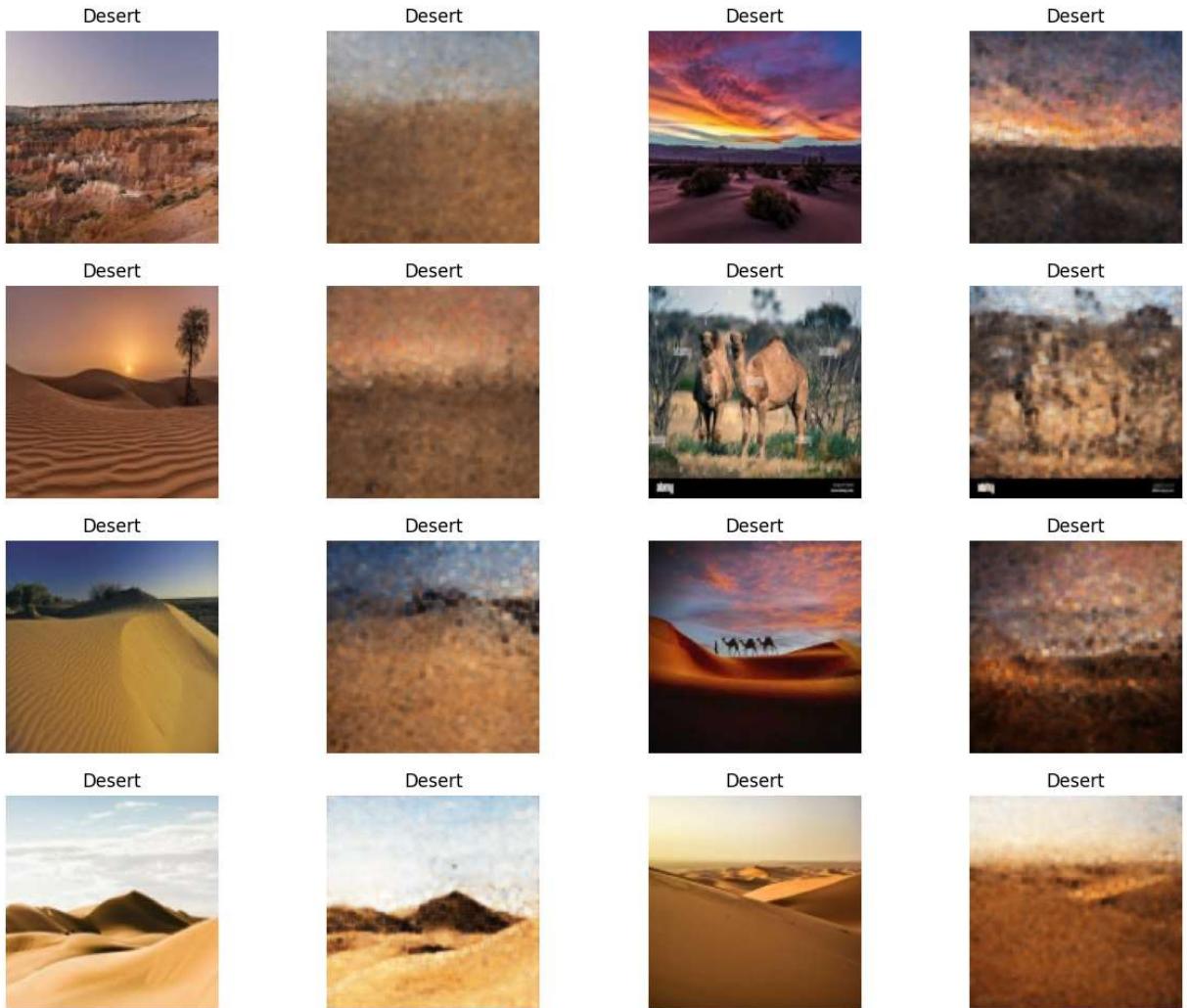
```
120/120 [=====] - 22s 183ms/step - loss: 33.3069 - reconstruction_error: 16.4320 - regularization_error: 16.8750 - val_loss: 56.2805 - val_reconstruction_error: 39.5340 - val_regularization_error: 16.7465
Epoch 632/1000
120/120 [=====] - 18s 149ms/step - loss: 33.2708 - reconstruction_error: 16.3853 - regularization_error: 16.8855 - val_loss: 54.7590 - val_reconstruction_error: 39.2551 - val_regularization_error: 15.5038
Epoch 633/1000
120/120 [=====] - 21s 174ms/step - loss: 32.9835 - reconstruction_error: 16.3090 - regularization_error: 16.6745 - val_loss: 55.1997 - val_reconstruction_error: 40.0058 - val_regularization_error: 15.1938
Epoch 634/1000
120/120 [=====] - 18s 147ms/step - loss: 33.3741 - reconstruction_error: 16.5711 - regularization_error: 16.8030 - val_loss: 55.2997 - val_reconstruction_error: 40.0022 - val_regularization_error: 15.2975
Epoch 635/1000
120/120 [=====] - 19s 159ms/step - loss: 33.1592 - reconstruction_error: 16.3349 - regularization_error: 16.8243 - val_loss: 55.5772 - val_reconstruction_error: 39.2893 - val_regularization_error: 16.2879
Epoch 636/1000
120/120 [=====] - 20s 166ms/step - loss: 33.1306 - reconstruction_error: 16.3118 - regularization_error: 16.8188 - val_loss: 55.8897 - val_reconstruction_error: 39.7210 - val_regularization_error: 16.1687
Epoch 637/1000
120/120 [=====] - 21s 179ms/step - loss: 33.0150 - reconstruction_error: 16.2102 - regularization_error: 16.8048 - val_loss: 55.4167 - val_reconstruction_error: 39.9088 - val_regularization_error: 15.5080
Epoch 638/1000
120/120 [=====] - 16s 135ms/step - loss: 33.1179 - reconstruction_error: 16.3350 - regularization_error: 16.7829 - val_loss: 55.9743 - val_reconstruction_error: 41.7324 - val_regularization_error: 14.2419
Epoch 639/1000
120/120 [=====] - 19s 162ms/step - loss: 33.2524 - reconstruction_error: 16.4780 - regularization_error: 16.7744 - val_loss: 56.0826 - val_reconstruction_error: 39.6562 - val_regularization_error: 16.4264
Epoch 640/1000
120/120 [=====] - 17s 143ms/step - loss: 33.1443 - reconstruction_error: 16.2889 - regularization_error: 16.8554 - val_loss: 55.8649 - val_reconstruction_error: 40.1786 - val_regularization_error: 15.6863
Epoch 641/1000
120/120 [=====] - ETA: 0s - loss: 33.4385 - reconstruction_error: 16.5263 - regularization_error: 16.9122
[2023-12-01 18:21:44.333469]: Reconstructing images for epoch 641 ...
```



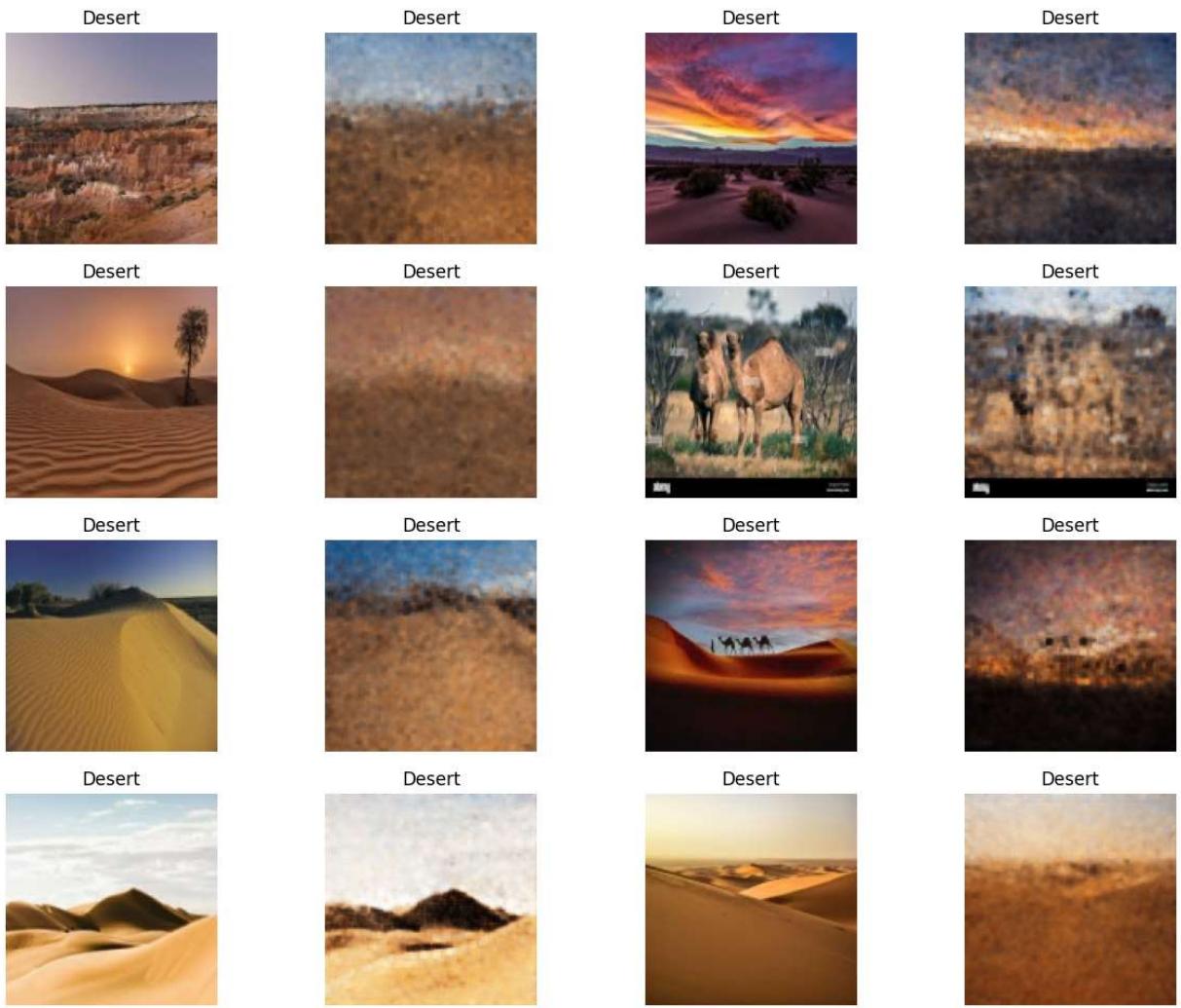
```
120/120 [=====] - 21s 175ms/step - loss: 33.4385 - reconstruction_error: 16.5263 - regularization_error: 16.9122 - val_loss: 55.2385 - val_reconstruction_error: 40.0742 - val_regularization_error: 15.1643
Epoch 642/1000
120/120 [=====] - 16s 133ms/step - loss: 32.9893 - reconstruction_error: 16.2391 - regularization_error: 16.7502 - val_loss: 55.4029 - val_reconstruction_error: 39.2210 - val_regularization_error: 16.1819
Epoch 643/1000
120/120 [=====] - 22s 177ms/step - loss: 33.0912 - reconstruction_error: 16.3100 - regularization_error: 16.7812 - val_loss: 55.7182 - val_reconstruction_error: 39.9956 - val_regularization_error: 15.7226
Epoch 644/1000
120/120 [=====] - 17s 142ms/step - loss: 33.1083 - reconstruction_error: 16.3388 - regularization_error: 16.7695 - val_loss: 55.7126 - val_reconstruction_error: 40.3210 - val_regularization_error: 15.3917
Epoch 645/1000
120/120 [=====] - 20s 162ms/step - loss: 32.8707 - reconstruction_error: 16.2050 - regularization_error: 16.6658 - val_loss: 55.2656 - val_reconstruction_error: 39.4027 - val_regularization_error: 15.8629
Epoch 646/1000
120/120 [=====] - 18s 151ms/step - loss: 33.0306 - reconstruction_error: 16.2197 - regularization_error: 16.8109 - val_loss: 54.9637 - val_reconstruction_error: 39.2442 - val_regularization_error: 15.7195
Epoch 647/1000
120/120 [=====] - 20s 162ms/step - loss: 33.0604 - reconstruction_error: 16.3142 - regularization_error: 16.7462 - val_loss: 56.1687 - val_reconstruction_error: 40.0742 - val_regularization_error: 16.0945
Epoch 648/1000
120/120 [=====] - 18s 150ms/step - loss: 32.9142 - reconstruction_error: 16.2634 - regularization_error: 16.6509 - val_loss: 55.6484 - val_reconstruction_error: 39.5362 - val_regularization_error: 16.1123
Epoch 649/1000
120/120 [=====] - 18s 152ms/step - loss: 33.1370 - reconstruction_error: 16.2087 - regularization_error: 16.9283 - val_loss: 55.1537 - val_reconstruction_error: 38.5949 - val_regularization_error: 16.5588
Epoch 650/1000
120/120 [=====] - 19s 155ms/step - loss: 33.1612 - reconstruction_error: 16.3598 - regularization_error: 16.8014 - val_loss: 55.8222 - val_reconstruction_error: 40.1902 - val_regularization_error: 15.6320
Epoch 651/1000
120/120 [=====] - ETA: 0s - loss: 33.0103 - reconstruction_error: 16.2099 - regularization_error: 16.8004
[2023-12-01 18:24:52.088380]: Reconstructing images for epoch 651 ...
```



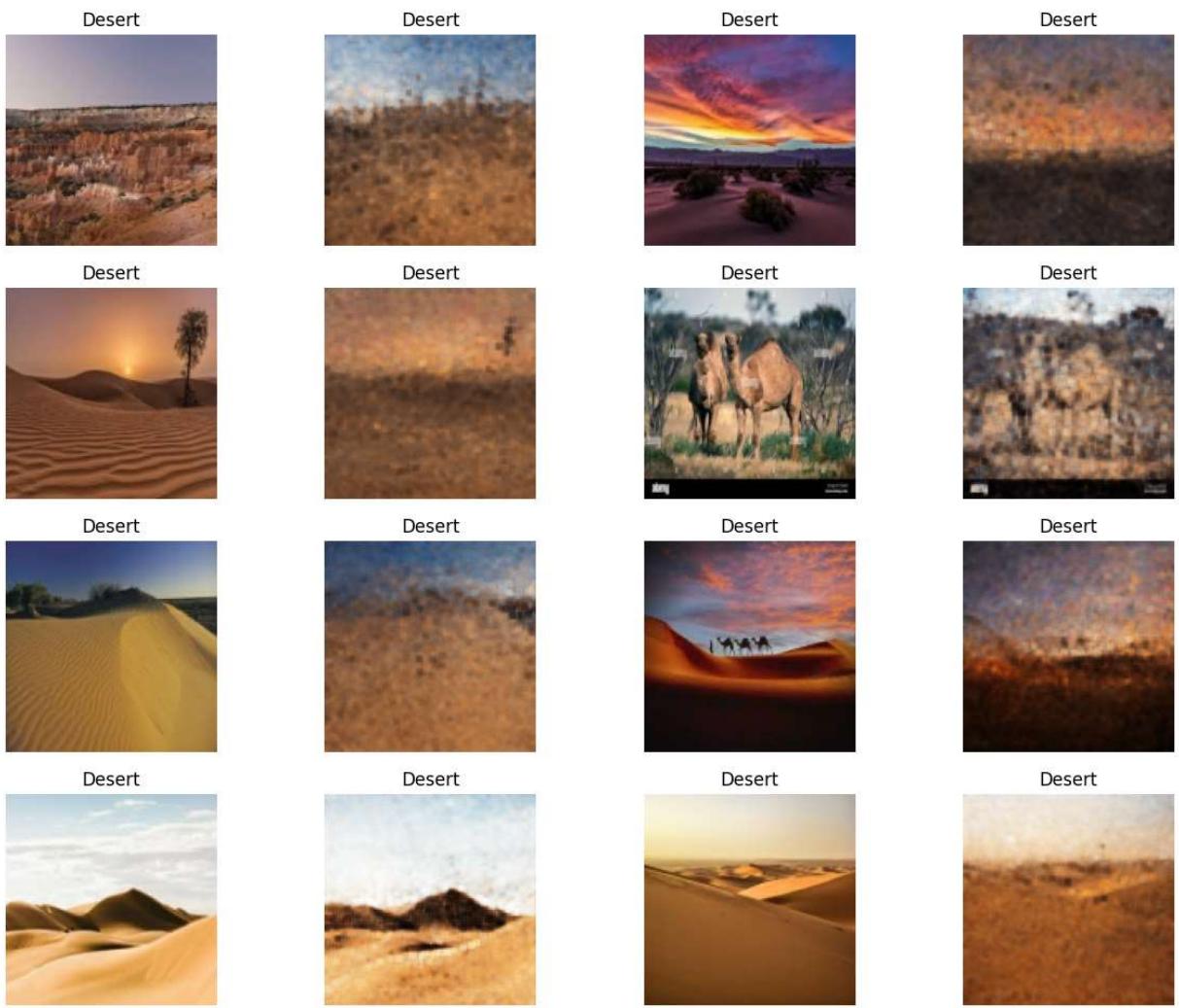
```
120/120 [=====] - 19s 158ms/step - loss: 33.0103 - reconstruction_error: 16.2099 - regularization_error: 16.8004 - val_loss: 55.2694 - val_reconstruction_error: 38.6185 - val_regularization_error: 16.6508
Epoch 652/1000
120/120 [=====] - 17s 136ms/step - loss: 33.0009 - reconstruction_error: 16.0957 - regularization_error: 16.9052 - val_loss: 54.7274 - val_reconstruction_error: 40.0259 - val_regularization_error: 14.7016
Epoch 653/1000
120/120 [=====] - 19s 155ms/step - loss: 33.0539 - reconstruction_error: 16.2437 - regularization_error: 16.8102 - val_loss: 55.1874 - val_reconstruction_error: 39.6244 - val_regularization_error: 15.5630
Epoch 654/1000
120/120 [=====] - 19s 159ms/step - loss: 33.0134 - reconstruction_error: 16.1651 - regularization_error: 16.8482 - val_loss: 55.8791 - val_reconstruction_error: 40.2418 - val_regularization_error: 15.6372
Epoch 655/1000
120/120 [=====] - 22s 185ms/step - loss: 33.1045 - reconstruction_error: 16.2693 - regularization_error: 16.8352 - val_loss: 55.0591 - val_reconstruction_error: 39.4811 - val_regularization_error: 15.5780
Epoch 656/1000
120/120 [=====] - 22s 182ms/step - loss: 33.0497 - reconstruction_error: 16.3082 - regularization_error: 16.7416 - val_loss: 56.3885 - val_reconstruction_error: 40.5225 - val_regularization_error: 15.8659
Epoch 657/1000
120/120 [=====] - 20s 165ms/step - loss: 32.9553 - reconstruction_error: 16.1105 - regularization_error: 16.8448 - val_loss: 55.1559 - val_reconstruction_error: 39.2345 - val_regularization_error: 15.9214
Epoch 658/1000
120/120 [=====] - 18s 151ms/step - loss: 32.8122 - reconstruction_error: 15.9880 - regularization_error: 16.8242 - val_loss: 55.7396 - val_reconstruction_error: 39.5878 - val_regularization_error: 16.1518
Epoch 659/1000
120/120 [=====] - 21s 172ms/step - loss: 32.9707 - reconstruction_error: 16.1537 - regularization_error: 16.8170 - val_loss: 55.6630 - val_reconstruction_error: 39.8465 - val_regularization_error: 15.8165
Epoch 660/1000
120/120 [=====] - 19s 160ms/step - loss: 32.8923 - reconstruction_error: 16.1555 - regularization_error: 16.7368 - val_loss: 54.4228 - val_reconstruction_error: 39.3175 - val_regularization_error: 15.1053
Epoch 661/1000
120/120 [=====] - ETA: 0s - loss: 32.9279 - reconstruction_error: 16.1149 - regularization_error: 16.8129
[2023-12-01 18:28:13.054816]: Reconstructing images for epoch 661 ...
```



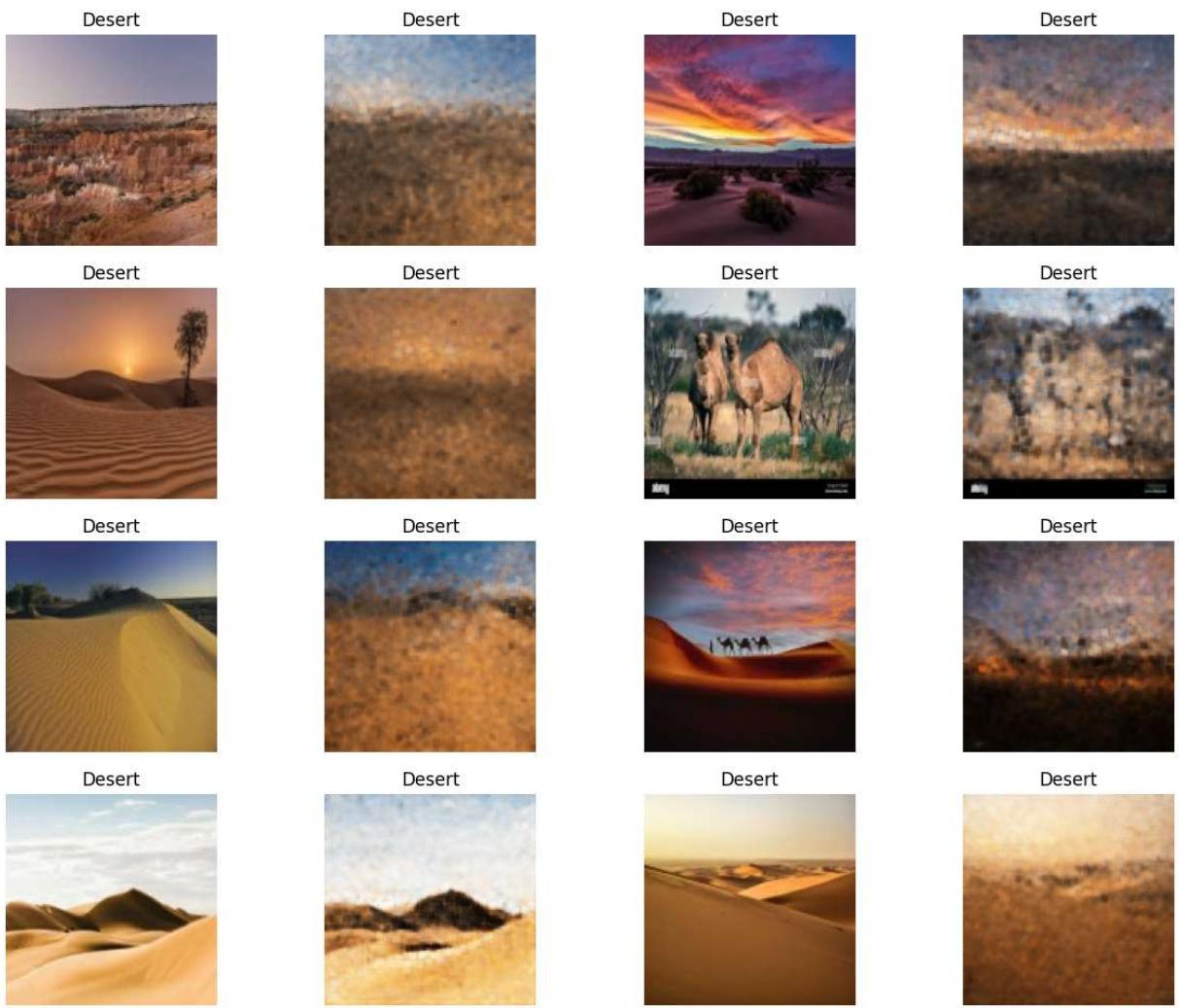
```
120/120 [=====] - 22s 180ms/step - loss: 32.9279 - reconstruction_error: 16.1149 - regularization_error: 16.8129 - val_loss: 54.8997 - val_reconstruction_error: 39.7278 - val_regularization_error: 15.1719
Epoch 662/1000
120/120 [=====] - 16s 136ms/step - loss: 32.8788 - reconstruction_error: 16.0580 - regularization_error: 16.8208 - val_loss: 55.3192 - val_reconstruction_error: 40.1634 - val_regularization_error: 15.1558
Epoch 663/1000
120/120 [=====] - 19s 155ms/step - loss: 33.0105 - reconstruction_error: 16.2152 - regularization_error: 16.7953 - val_loss: 54.8170 - val_reconstruction_error: 39.0217 - val_regularization_error: 15.7953
Epoch 664/1000
120/120 [=====] - 17s 142ms/step - loss: 33.0444 - reconstruction_error: 16.2721 - regularization_error: 16.7724 - val_loss: 55.4194 - val_reconstruction_error: 39.6751 - val_regularization_error: 15.7444
Epoch 665/1000
120/120 [=====] - 16s 137ms/step - loss: 32.8764 - reconstruction_error: 16.1521 - regularization_error: 16.7243 - val_loss: 55.2197 - val_reconstruction_error: 39.5526 - val_regularization_error: 15.6671
Epoch 666/1000
120/120 [=====] - 19s 162ms/step - loss: 33.0274 - reconstruction_error: 16.2926 - regularization_error: 16.7348 - val_loss: 55.4308 - val_reconstruction_error: 40.0828 - val_regularization_error: 15.3480
Epoch 667/1000
120/120 [=====] - 18s 145ms/step - loss: 32.8981 - reconstruction_error: 16.1076 - regularization_error: 16.7905 - val_loss: 56.9297 - val_reconstruction_error: 39.8522 - val_regularization_error: 17.0776
Epoch 668/1000
120/120 [=====] - 16s 132ms/step - loss: 32.9406 - reconstruction_error: 16.2142 - regularization_error: 16.7264 - val_loss: 54.7425 - val_reconstruction_error: 39.5350 - val_regularization_error: 15.2076
Epoch 669/1000
120/120 [=====] - 19s 159ms/step - loss: 32.7591 - reconstruction_error: 16.0035 - regularization_error: 16.7557 - val_loss: 55.9655 - val_reconstruction_error: 39.5708 - val_regularization_error: 16.3947
Epoch 670/1000
120/120 [=====] - 17s 140ms/step - loss: 33.0111 - reconstruction_error: 16.1991 - regularization_error: 16.8120 - val_loss: 56.0397 - val_reconstruction_error: 39.9354 - val_regularization_error: 16.1042
Epoch 671/1000
120/120 [=====] - ETA: 0s - loss: 32.8572 - reconstruction_error: 16.0556 - regularization_error: 16.8015
[2023-12-01 18:31:14.354018]: Reconstructing images for epoch 671 ...
```



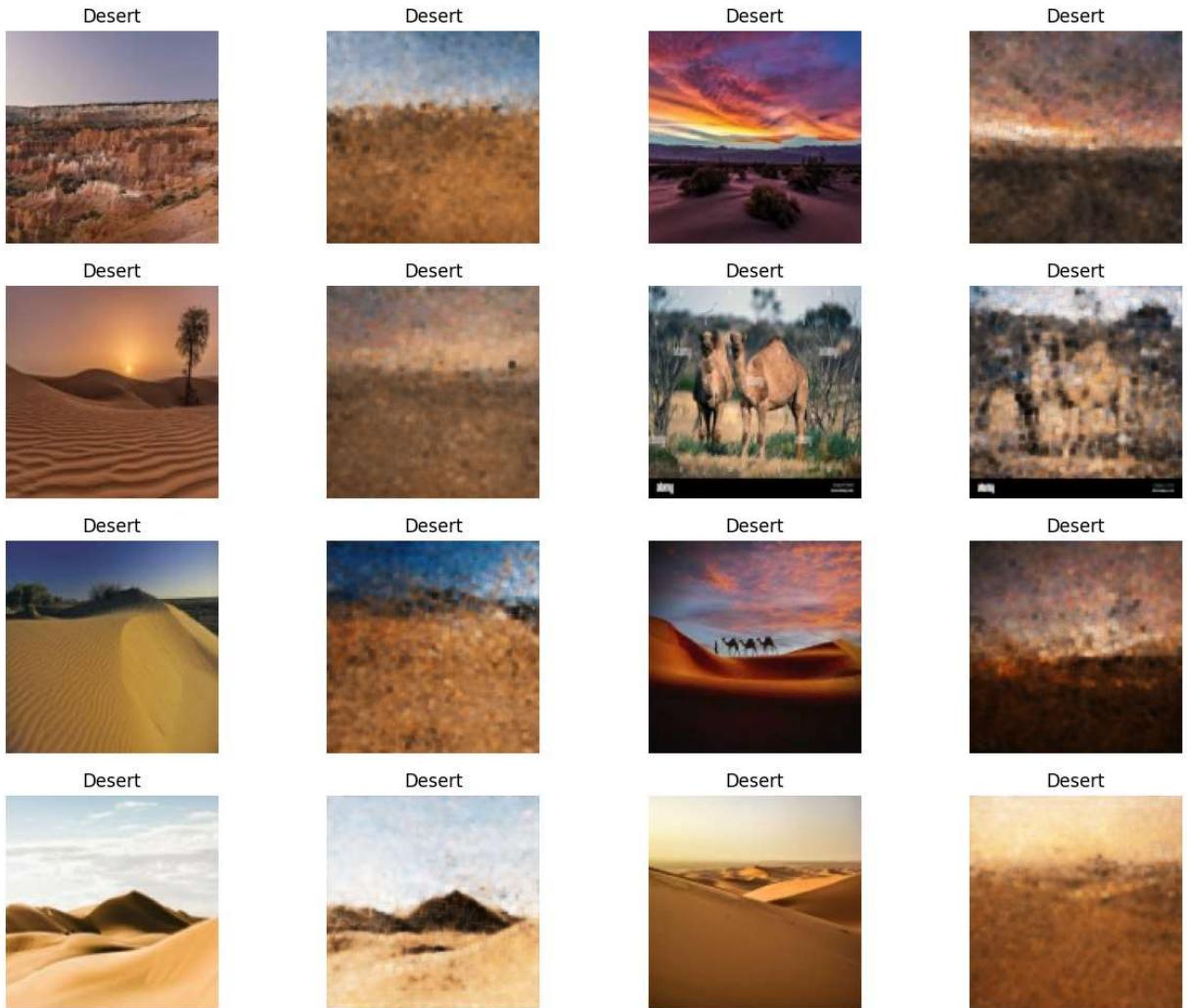
```
120/120 [=====] - 22s 182ms/step - loss: 32.8572 - reconstruction_error: 16.0556 - regularization_error: 16.8015 - val_loss: 55.9516 - val_reconstruction_error: 39.8363 - val_regularization_error: 16.1153
Epoch 672/1000
120/120 [=====] - 17s 146ms/step - loss: 33.0704 - reconstruction_error: 16.2369 - regularization_error: 16.8335 - val_loss: 55.9975 - val_reconstruction_error: 40.2691 - val_regularization_error: 15.7284
Epoch 673/1000
120/120 [=====] - 17s 139ms/step - loss: 32.9526 - reconstruction_error: 16.2388 - regularization_error: 16.7138 - val_loss: 56.2955 - val_reconstruction_error: 40.6703 - val_regularization_error: 15.6252
Epoch 674/1000
120/120 [=====] - 19s 155ms/step - loss: 33.1975 - reconstruction_error: 16.2406 - regularization_error: 16.9570 - val_loss: 56.2977 - val_reconstruction_error: 39.9874 - val_regularization_error: 16.3102
Epoch 675/1000
120/120 [=====] - 21s 175ms/step - loss: 32.6772 - reconstruction_error: 15.9351 - regularization_error: 16.7421 - val_loss: 54.9672 - val_reconstruction_error: 40.2150 - val_regularization_error: 14.7522
Epoch 676/1000
120/120 [=====] - 17s 142ms/step - loss: 32.8481 - reconstruction_error: 16.1570 - regularization_error: 16.6911 - val_loss: 55.9351 - val_reconstruction_error: 39.6988 - val_regularization_error: 16.2363
Epoch 677/1000
120/120 [=====] - 22s 177ms/step - loss: 32.8932 - reconstruction_error: 16.0684 - regularization_error: 16.8248 - val_loss: 56.2361 - val_reconstruction_error: 39.7760 - val_regularization_error: 16.4602
Epoch 678/1000
120/120 [=====] - 16s 132ms/step - loss: 32.8070 - reconstruction_error: 16.0162 - regularization_error: 16.7909 - val_loss: 55.6914 - val_reconstruction_error: 39.2170 - val_regularization_error: 16.4743
Epoch 679/1000
120/120 [=====] - 15s 119ms/step - loss: 32.7146 - reconstruction_error: 15.9437 - regularization_error: 16.7708 - val_loss: 55.6118 - val_reconstruction_error: 39.9541 - val_regularization_error: 15.6576
Epoch 680/1000
120/120 [=====] - 20s 161ms/step - loss: 32.9102 - reconstruction_error: 16.1820 - regularization_error: 16.7282 - val_loss: 55.3687 - val_reconstruction_error: 39.3230 - val_regularization_error: 16.0458
Epoch 681/1000
120/120 [=====] - ETA: 0s - loss: 32.8028 - reconstruction_error: 15.9135 - regularization_error: 16.8894
[2023-12-01 18:34:22.650059]: Reconstructing images for epoch 681 ...
```



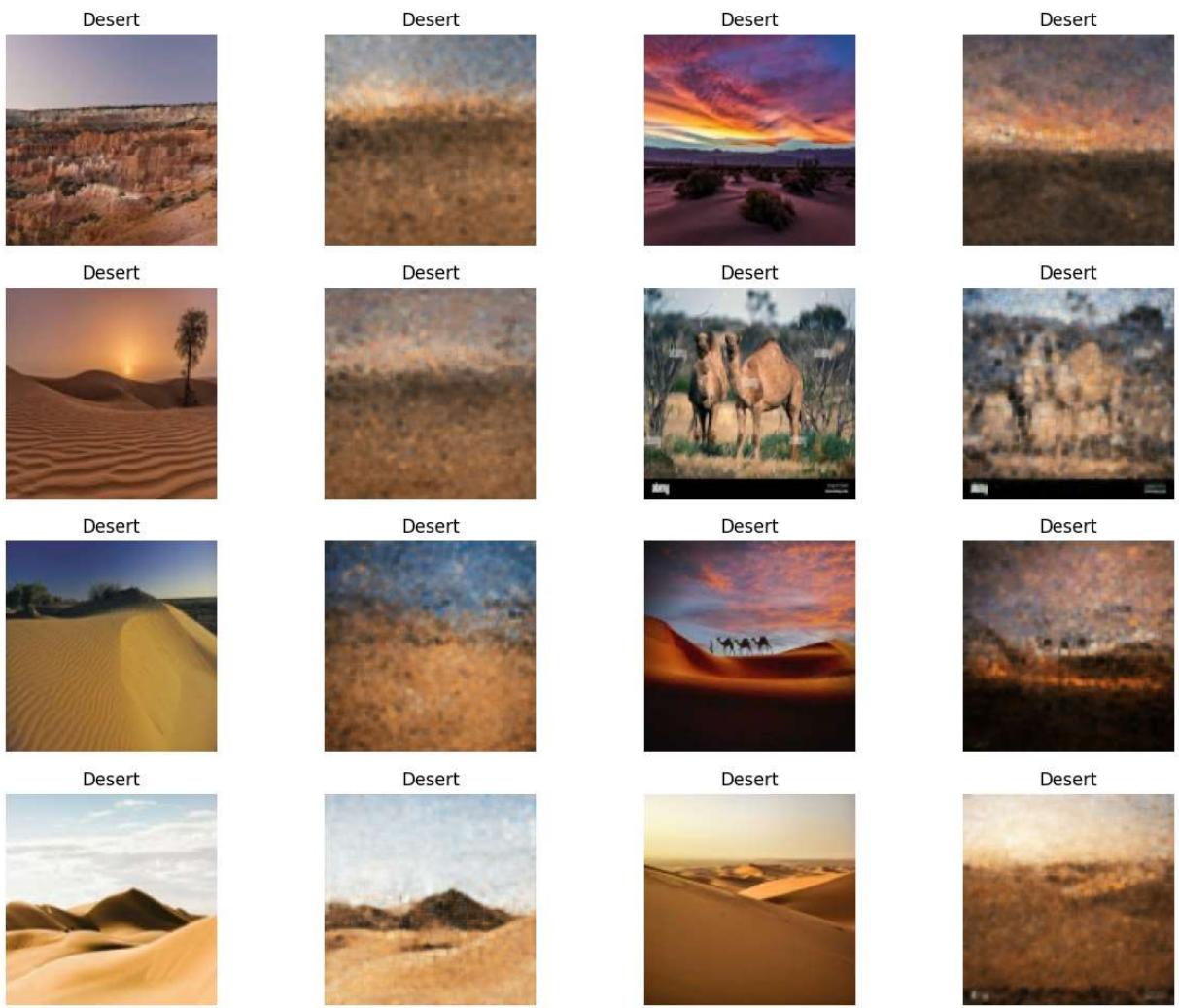
```
120/120 [=====] - 22s 185ms/step - loss: 32.8028 - reconstruction_error: 15.9135 - regularization_error: 16.8894 - val_loss: 55.5653 - val_reconstruction_error: 40.3367 - val_regularization_error: 15.2286
Epoch 682/1000
120/120 [=====] - 18s 152ms/step - loss: 32.9217 - reconstruction_error: 16.0747 - regularization_error: 16.8470 - val_loss: 55.8538 - val_reconstruction_error: 39.7779 - val_regularization_error: 16.0759
Epoch 683/1000
120/120 [=====] - 18s 149ms/step - loss: 32.8011 - reconstruction_error: 16.0034 - regularization_error: 16.7978 - val_loss: 55.0330 - val_reconstruction_error: 39.4860 - val_regularization_error: 15.5470
Epoch 684/1000
120/120 [=====] - 17s 138ms/step - loss: 32.8713 - reconstruction_error: 16.1712 - regularization_error: 16.7001 - val_loss: 56.1747 - val_reconstruction_error: 39.8312 - val_regularization_error: 16.3435
Epoch 685/1000
120/120 [=====] - 17s 138ms/step - loss: 32.9090 - reconstruction_error: 16.0476 - regularization_error: 16.8615 - val_loss: 55.1761 - val_reconstruction_error: 39.2810 - val_regularization_error: 15.8951
Epoch 686/1000
120/120 [=====] - 20s 167ms/step - loss: 32.6424 - reconstruction_error: 15.8565 - regularization_error: 16.7859 - val_loss: 55.3844 - val_reconstruction_error: 38.8786 - val_regularization_error: 16.5058
Epoch 687/1000
120/120 [=====] - 22s 181ms/step - loss: 32.8467 - reconstruction_error: 16.0297 - regularization_error: 16.8171 - val_loss: 56.2452 - val_reconstruction_error: 40.3162 - val_regularization_error: 15.9290
Epoch 688/1000
120/120 [=====] - 23s 190ms/step - loss: 32.7442 - reconstruction_error: 16.0710 - regularization_error: 16.6732 - val_loss: 55.8756 - val_reconstruction_error: 40.0382 - val_regularization_error: 15.8374
Epoch 689/1000
120/120 [=====] - 17s 145ms/step - loss: 32.7016 - reconstruction_error: 15.9207 - regularization_error: 16.7810 - val_loss: 54.9245 - val_reconstruction_error: 40.0215 - val_regularization_error: 14.9030
Epoch 690/1000
120/120 [=====] - 21s 176ms/step - loss: 32.9531 - reconstruction_error: 16.2214 - regularization_error: 16.7317 - val_loss: 56.0593 - val_reconstruction_error: 39.4160 - val_regularization_error: 16.6433
Epoch 691/1000
120/120 [=====] - ETA: 0s - loss: 32.6452 - reconstruction_error: 15.8915 - regularization_error: 16.7536
[2023-12-01 18:37:39.120525]: Reconstructing images for epoch 691 ...
```



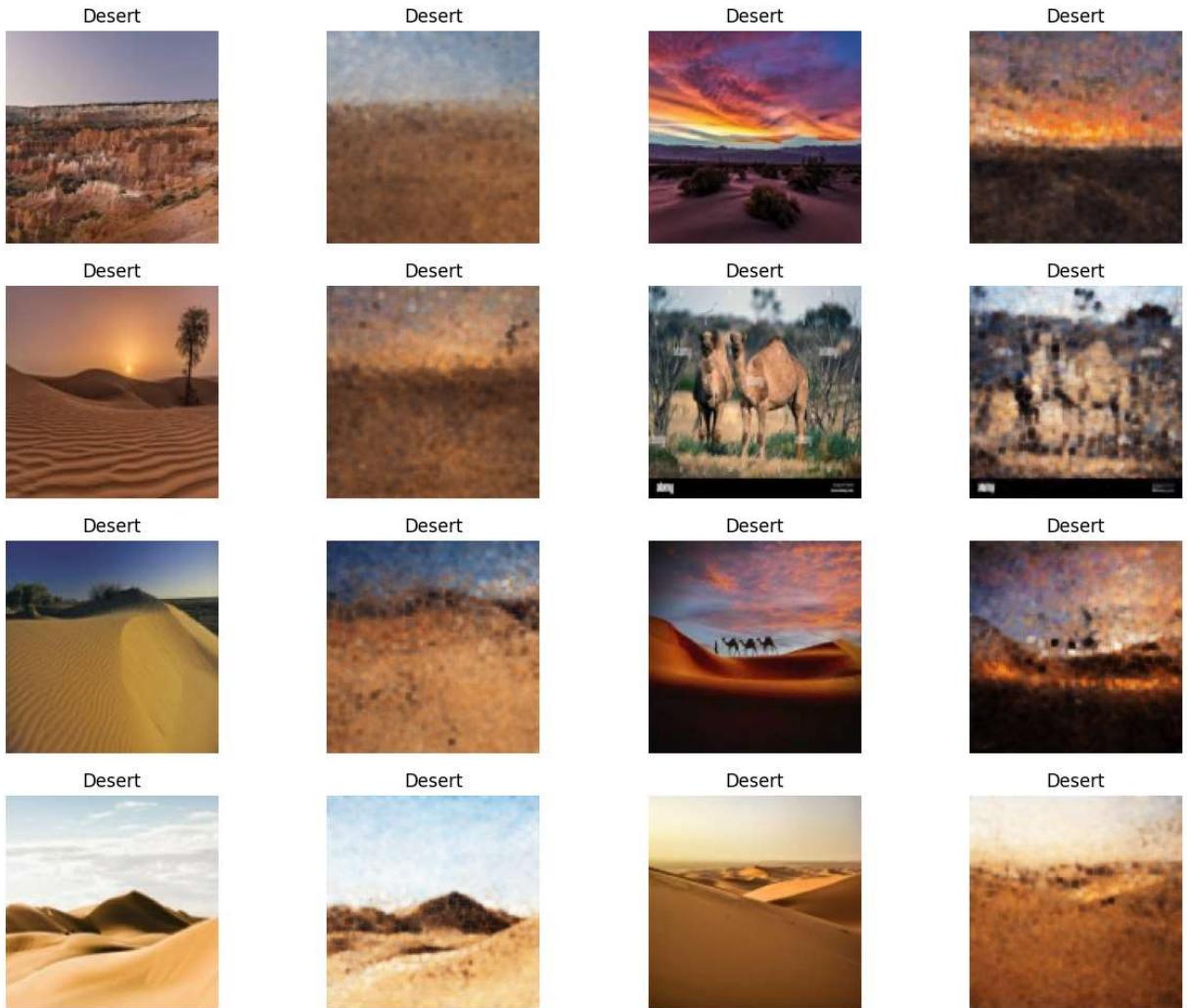
```
120/120 [=====] - 21s 175ms/step - loss: 32.6452 - reconstruction_error: 15.8915 - regularization_error: 16.7536 - val_loss: 55.4972 - val_reconstruction_error: 39.9180 - val_regularization_error: 15.5792
Epoch 692/1000
120/120 [=====] - 17s 138ms/step - loss: 32.7413 - reconstruction_error: 16.0208 - regularization_error: 16.7205 - val_loss: 56.4551 - val_reconstruction_error: 40.3883 - val_regularization_error: 16.0668
Epoch 693/1000
120/120 [=====] - 19s 156ms/step - loss: 32.7219 - reconstruction_error: 15.9179 - regularization_error: 16.8040 - val_loss: 55.2380 - val_reconstruction_error: 39.9825 - val_regularization_error: 15.2555
Epoch 694/1000
120/120 [=====] - 18s 148ms/step - loss: 32.5838 - reconstruction_error: 15.9066 - regularization_error: 16.6772 - val_loss: 54.2202 - val_reconstruction_error: 39.1346 - val_regularization_error: 15.0856
Epoch 695/1000
120/120 [=====] - 19s 157ms/step - loss: 32.6691 - reconstruction_error: 15.9196 - regularization_error: 16.7496 - val_loss: 55.0094 - val_reconstruction_error: 39.4281 - val_regularization_error: 15.5813
Epoch 696/1000
120/120 [=====] - 20s 163ms/step - loss: 32.6379 - reconstruction_error: 15.9374 - regularization_error: 16.7005 - val_loss: 55.4778 - val_reconstruction_error: 39.7091 - val_regularization_error: 15.7687
Epoch 697/1000
120/120 [=====] - 19s 157ms/step - loss: 32.6442 - reconstruction_error: 15.8480 - regularization_error: 16.7962 - val_loss: 55.1554 - val_reconstruction_error: 39.8025 - val_regularization_error: 15.3528
Epoch 698/1000
120/120 [=====] - 19s 156ms/step - loss: 32.9874 - reconstruction_error: 16.1333 - regularization_error: 16.8541 - val_loss: 55.4165 - val_reconstruction_error: 39.6858 - val_regularization_error: 15.7307
Epoch 699/1000
120/120 [=====] - 22s 183ms/step - loss: 32.5611 - reconstruction_error: 15.8521 - regularization_error: 16.7090 - val_loss: 55.4660 - val_reconstruction_error: 39.7892 - val_regularization_error: 15.6768
Epoch 700/1000
120/120 [=====] - 19s 160ms/step - loss: 32.8427 - reconstruction_error: 16.1114 - regularization_error: 16.7313 - val_loss: 56.2600 - val_reconstruction_error: 40.2876 - val_regularization_error: 15.9724
Epoch 701/1000
120/120 [=====] - ETA: 0s - loss: 32.7640 - reconstruction_error: 15.9478 - regularization_error: 16.8163
[2023-12-01 18:40:48.293189]: Reconstructing images for epoch 701 ...
```



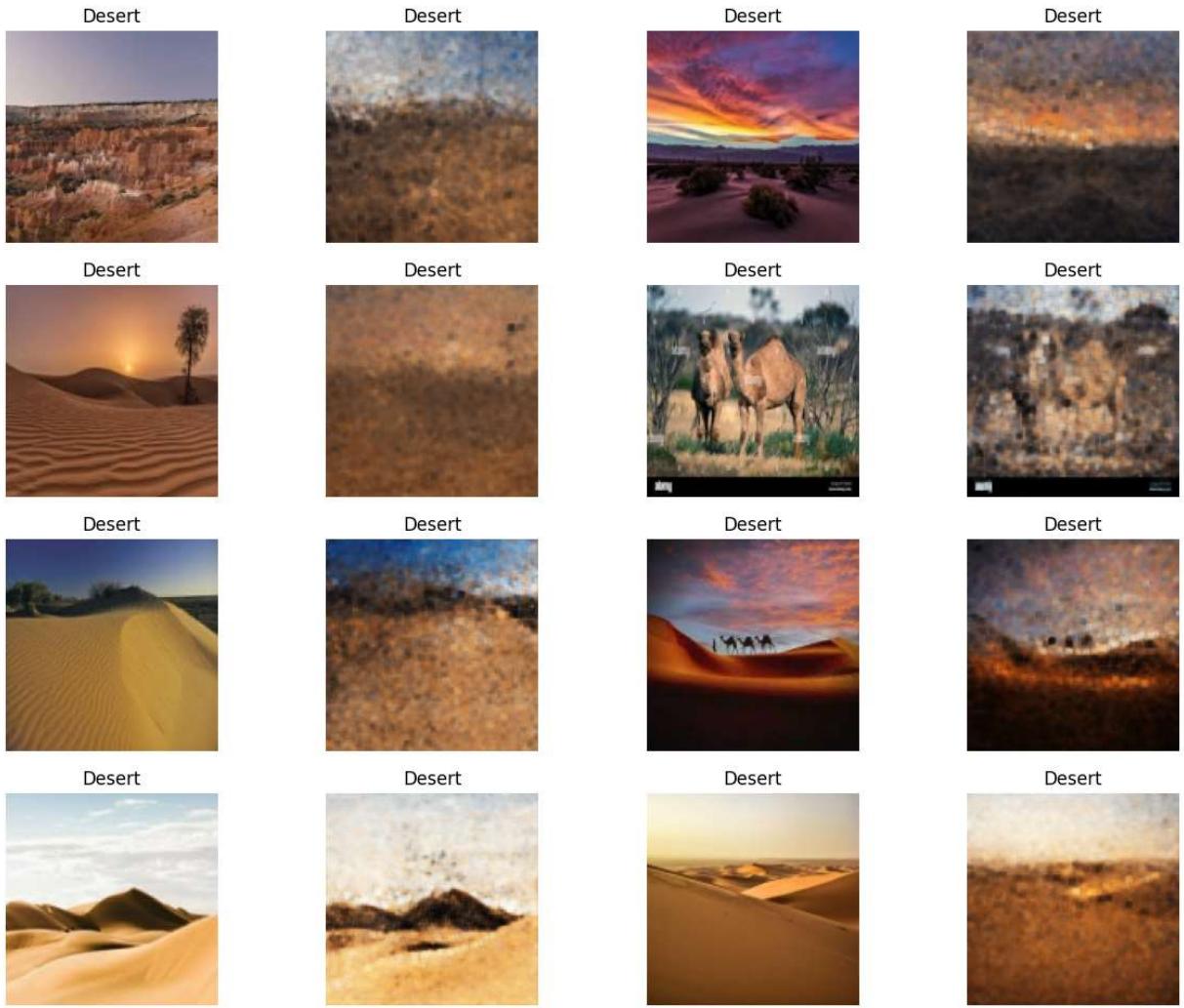
```
120/120 [=====] - 18s 145ms/step - loss: 32.7640 - reconstruction_error: 15.9478 - regularization_error: 16.8163 - val_loss: 55.4235 - val_reconstruction_error: 39.6797 - val_regularization_error: 15.7438
Epoch 702/1000
120/120 [=====] - 20s 166ms/step - loss: 32.6167 - reconstruction_error: 15.8561 - regularization_error: 16.7607 - val_loss: 55.4933 - val_reconstruction_error: 39.9962 - val_regularization_error: 15.4971
Epoch 703/1000
120/120 [=====] - 19s 161ms/step - loss: 32.6772 - reconstruction_error: 15.8164 - regularization_error: 16.8608 - val_loss: 56.5934 - val_reconstruction_error: 40.9506 - val_regularization_error: 15.6428
Epoch 704/1000
120/120 [=====] - 21s 176ms/step - loss: 32.7108 - reconstruction_error: 15.9430 - regularization_error: 16.7678 - val_loss: 55.9518 - val_reconstruction_error: 39.6007 - val_regularization_error: 16.3511
Epoch 705/1000
120/120 [=====] - 17s 141ms/step - loss: 32.6158 - reconstruction_error: 15.8239 - regularization_error: 16.7919 - val_loss: 55.4633 - val_reconstruction_error: 39.8054 - val_regularization_error: 15.6579
Epoch 706/1000
120/120 [=====] - 20s 160ms/step - loss: 32.6476 - reconstruction_error: 15.9115 - regularization_error: 16.7361 - val_loss: 55.3656 - val_reconstruction_error: 40.3003 - val_regularization_error: 15.0653
Epoch 707/1000
120/120 [=====] - 18s 150ms/step - loss: 32.6512 - reconstruction_error: 15.8086 - regularization_error: 16.8426 - val_loss: 55.1009 - val_reconstruction_error: 40.1222 - val_regularization_error: 14.9786
Epoch 708/1000
120/120 [=====] - 22s 182ms/step - loss: 32.5033 - reconstruction_error: 15.8414 - regularization_error: 16.6619 - val_loss: 55.8427 - val_reconstruction_error: 40.2218 - val_regularization_error: 15.6209
Epoch 709/1000
120/120 [=====] - 18s 153ms/step - loss: 32.8710 - reconstruction_error: 16.0205 - regularization_error: 16.8505 - val_loss: 55.5635 - val_reconstruction_error: 40.7604 - val_regularization_error: 14.8032
Epoch 710/1000
120/120 [=====] - 20s 167ms/step - loss: 32.7028 - reconstruction_error: 15.9131 - regularization_error: 16.7897 - val_loss: 55.5595 - val_reconstruction_error: 39.7676 - val_regularization_error: 15.7919
Epoch 711/1000
120/120 [=====] - ETA: 0s - loss: 32.6060 - reconstruction_error: 15.8587 - regularization_error: 16.7473
[2023-12-01 18:44:09.871858]: Reconstructing images for epoch 711 ...
```



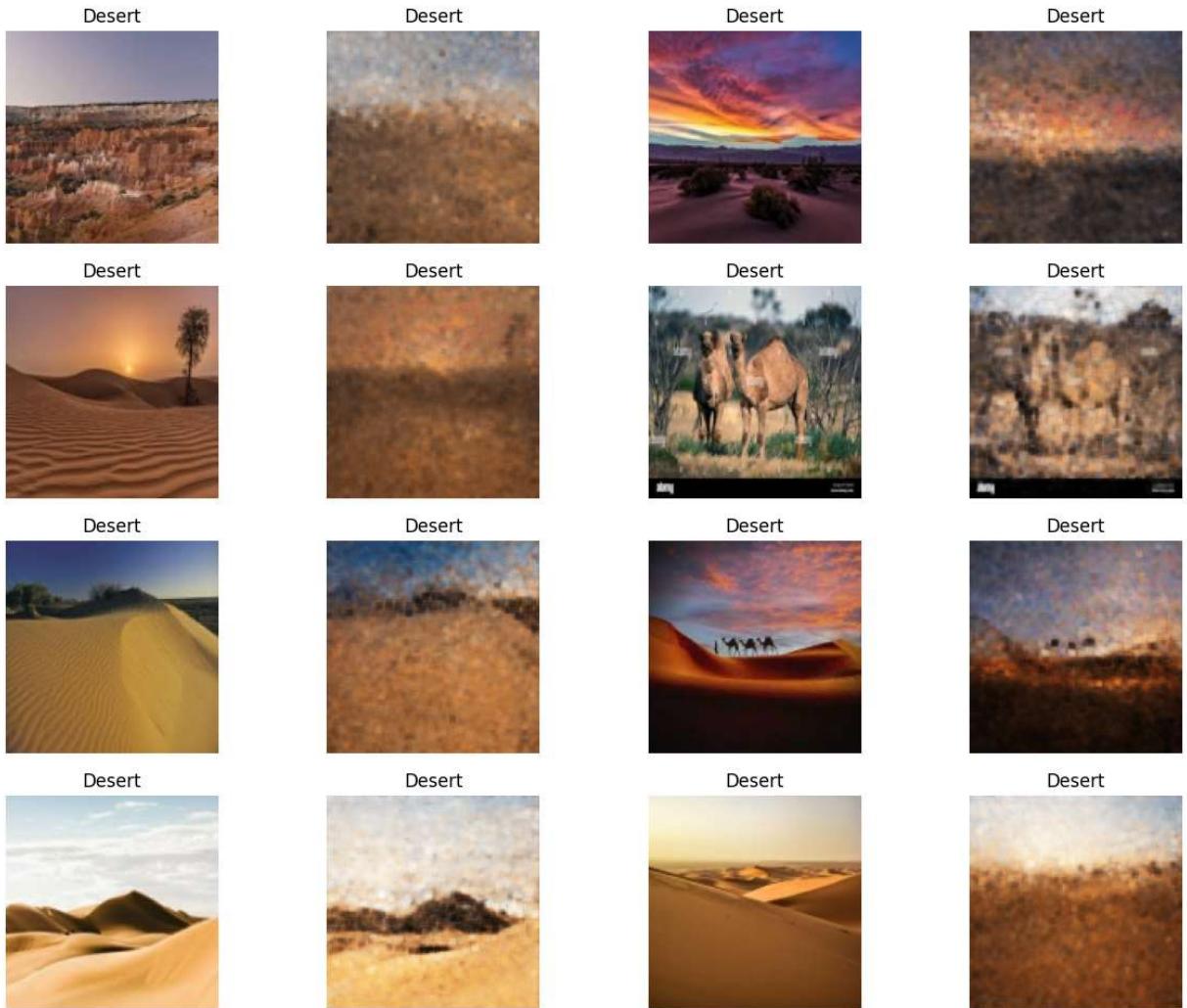
```
120/120 [=====] - 23s 192ms/step - loss: 32.6060 - reconstruction_error: 15.8587 - regularization_error: 16.7473 - val_loss: 55.0436 - val_reconstruction_error: 40.0192 - val_regularization_error: 15.0244
Epoch 712/1000
120/120 [=====] - 18s 146ms/step - loss: 32.7061 - reconstruction_error: 15.8651 - regularization_error: 16.8410 - val_loss: 55.1845 - val_reconstruction_error: 40.0215 - val_regularization_error: 15.1630
Epoch 713/1000
120/120 [=====] - 19s 156ms/step - loss: 32.6260 - reconstruction_error: 15.8802 - regularization_error: 16.7458 - val_loss: 56.2316 - val_reconstruction_error: 39.7712 - val_regularization_error: 16.4605
Epoch 714/1000
120/120 [=====] - 18s 151ms/step - loss: 32.6091 - reconstruction_error: 15.7725 - regularization_error: 16.8366 - val_loss: 57.2149 - val_reconstruction_error: 41.0174 - val_regularization_error: 16.1975
Epoch 715/1000
120/120 [=====] - 17s 143ms/step - loss: 32.5622 - reconstruction_error: 15.8237 - regularization_error: 16.7385 - val_loss: 54.8539 - val_reconstruction_error: 40.0939 - val_regularization_error: 14.7600
Epoch 716/1000
120/120 [=====] - 21s 176ms/step - loss: 32.4203 - reconstruction_error: 15.8091 - regularization_error: 16.6112 - val_loss: 56.3747 - val_reconstruction_error: 39.8120 - val_regularization_error: 16.5627
Epoch 717/1000
120/120 [=====] - 15s 124ms/step - loss: 32.5941 - reconstruction_error: 15.7577 - regularization_error: 16.8364 - val_loss: 55.1217 - val_reconstruction_error: 39.8966 - val_regularization_error: 15.2251
Epoch 718/1000
120/120 [=====] - 19s 160ms/step - loss: 32.6579 - reconstruction_error: 15.7492 - regularization_error: 16.9087 - val_loss: 55.4200 - val_reconstruction_error: 39.7767 - val_regularization_error: 15.6433
Epoch 719/1000
120/120 [=====] - 19s 162ms/step - loss: 32.5666 - reconstruction_error: 15.8324 - regularization_error: 16.7342 - val_loss: 55.9023 - val_reconstruction_error: 39.9593 - val_regularization_error: 15.9430
Epoch 720/1000
120/120 [=====] - 21s 177ms/step - loss: 32.5193 - reconstruction_error: 15.8245 - regularization_error: 16.6948 - val_loss: 56.9745 - val_reconstruction_error: 41.2217 - val_regularization_error: 15.7528
Epoch 721/1000
120/120 [=====] - ETA: 0s - loss: 32.8762 - reconstruction_error: 15.9891 - regularization_error: 16.8872
[2023-12-01 18:47:19.911030]: Reconstructing images for epoch 721 ...
```



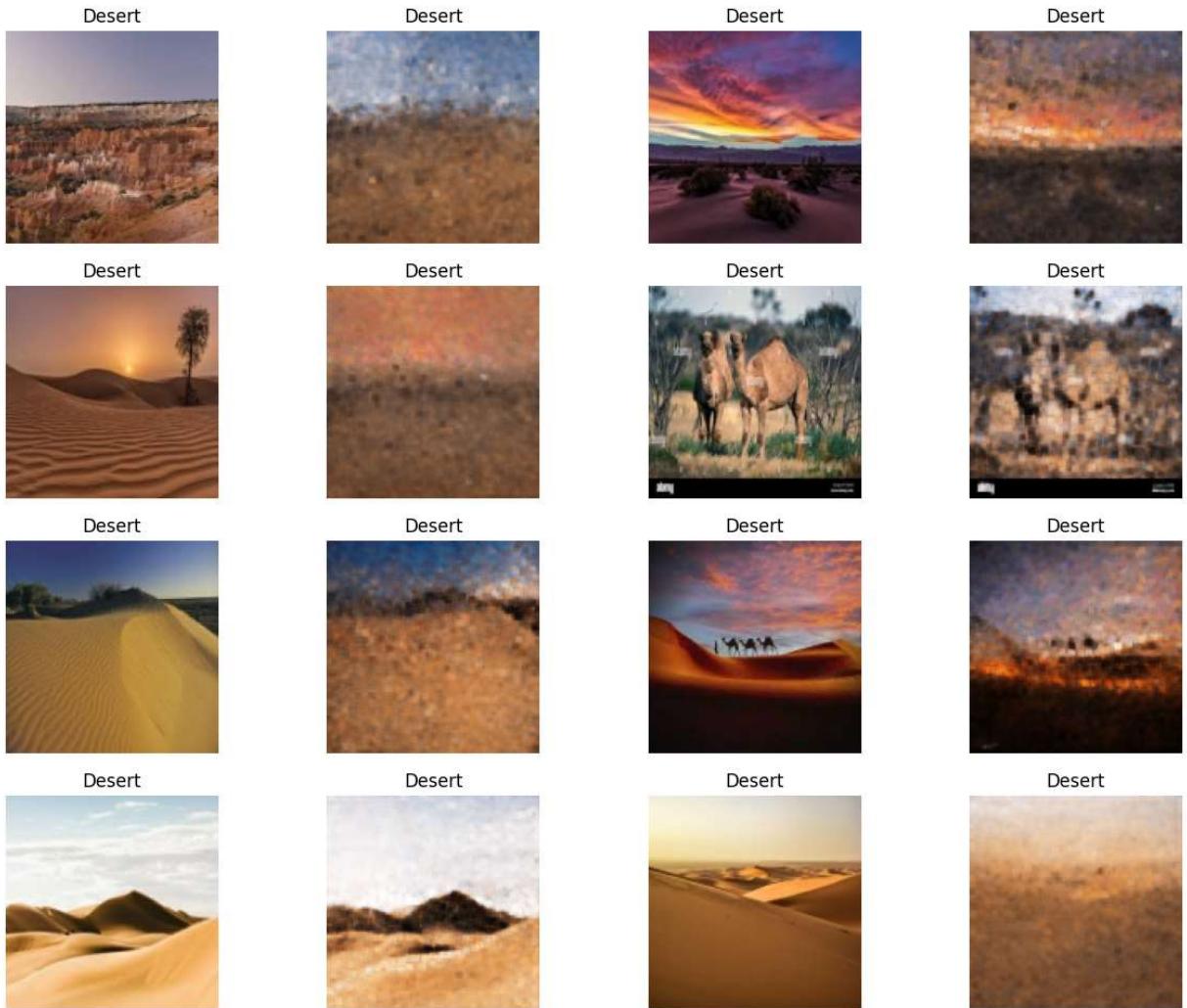
```
120/120 [=====] - 19s 155ms/step - loss: 32.8762 - reconstruction_error: 15.9891 - regularization_error: 16.8872 - val_loss: 56.7921 - val_reconstruction_error: 40.2507 - val_regularization_error: 16.5414
Epoch 722/1000
120/120 [=====] - 18s 154ms/step - loss: 32.6035 - reconstruction_error: 15.8024 - regularization_error: 16.8011 - val_loss: 56.6057 - val_reconstruction_error: 40.3684 - val_regularization_error: 16.2372
Epoch 723/1000
120/120 [=====] - 17s 142ms/step - loss: 32.6468 - reconstruction_error: 15.7991 - regularization_error: 16.8477 - val_loss: 55.7818 - val_reconstruction_error: 40.3025 - val_regularization_error: 15.4792
Epoch 724/1000
120/120 [=====] - 21s 175ms/step - loss: 32.6028 - reconstruction_error: 15.8214 - regularization_error: 16.7814 - val_loss: 54.8658 - val_reconstruction_error: 39.2090 - val_regularization_error: 15.6568
Epoch 725/1000
120/120 [=====] - 21s 172ms/step - loss: 32.4193 - reconstruction_error: 15.6964 - regularization_error: 16.7229 - val_loss: 55.7967 - val_reconstruction_error: 39.2544 - val_regularization_error: 16.5424
Epoch 726/1000
120/120 [=====] - 23s 190ms/step - loss: 32.7903 - reconstruction_error: 15.8683 - regularization_error: 16.9220 - val_loss: 56.4394 - val_reconstruction_error: 39.9671 - val_regularization_error: 16.4723
Epoch 727/1000
120/120 [=====] - 19s 161ms/step - loss: 32.6147 - reconstruction_error: 15.8444 - regularization_error: 16.7703 - val_loss: 55.6053 - val_reconstruction_error: 39.9612 - val_regularization_error: 15.6441
Epoch 728/1000
120/120 [=====] - 17s 142ms/step - loss: 32.4811 - reconstruction_error: 15.7648 - regularization_error: 16.7163 - val_loss: 55.2594 - val_reconstruction_error: 40.5396 - val_regularization_error: 14.7198
Epoch 729/1000
120/120 [=====] - 19s 156ms/step - loss: 32.3823 - reconstruction_error: 15.6666 - regularization_error: 16.7157 - val_loss: 56.3063 - val_reconstruction_error: 39.6493 - val_regularization_error: 16.6571
Epoch 730/1000
120/120 [=====] - 17s 143ms/step - loss: 32.7194 - reconstruction_error: 15.8785 - regularization_error: 16.8408 - val_loss: 57.4478 - val_reconstruction_error: 41.0574 - val_regularization_error: 16.3905
Epoch 731/1000
120/120 [=====] - ETA: 0s - loss: 32.6320 - reconstruction_error: 15.7155 - regularization_error: 16.9165
[2023-12-01 18:50:40.773432]: Reconstructing images for epoch 731 ...
```



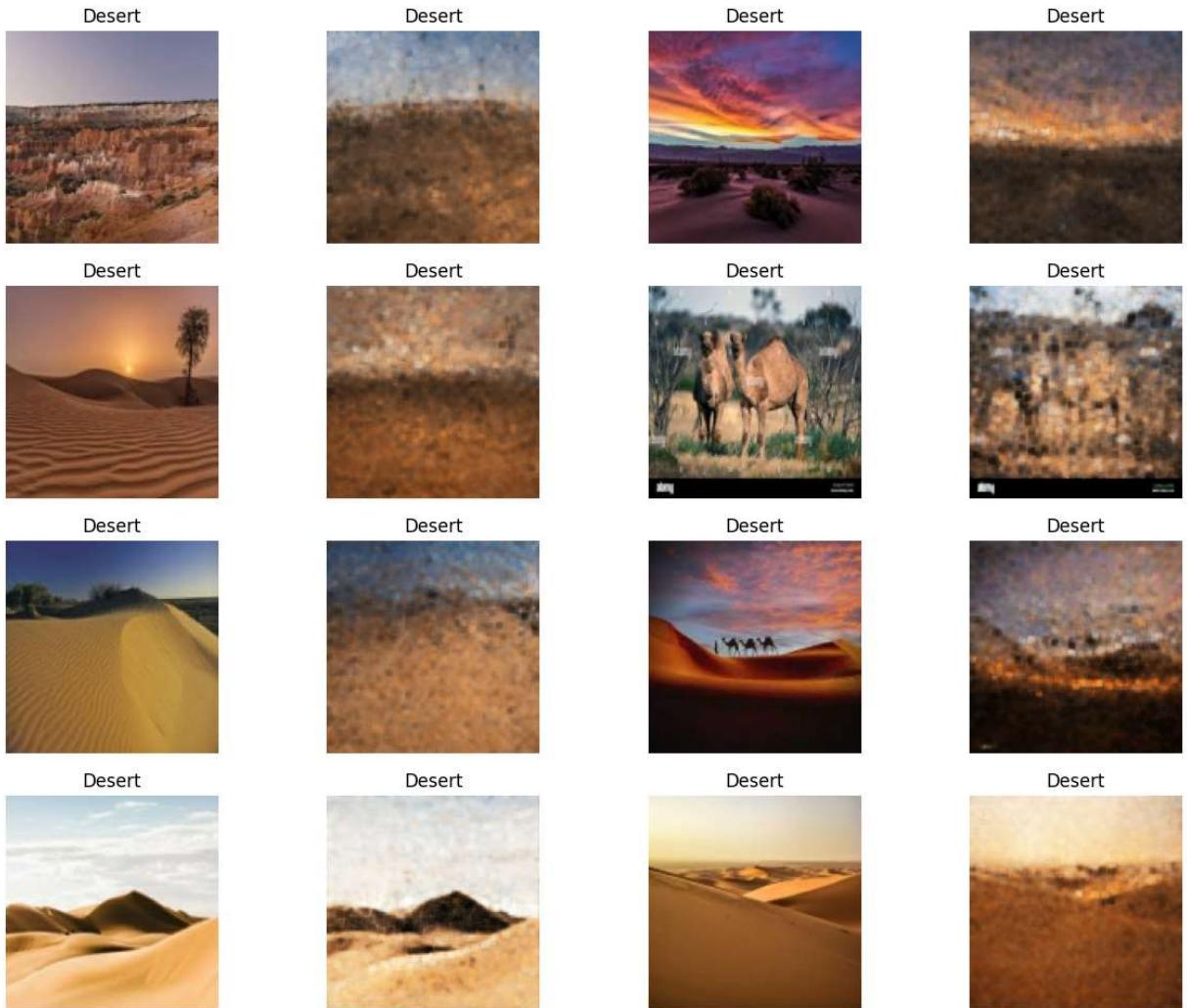
```
120/120 [=====] - 24s 203ms/step - loss: 32.6320 - reconstruction_error: 15.7155 - regularization_error: 16.9165 - val_loss: 55.5225 - val_reconstruction_error: 39.5637 - val_regularization_error: 15.9588
Epoch 732/1000
120/120 [=====] - 20s 163ms/step - loss: 32.4740 - reconstruction_error: 15.7730 - regularization_error: 16.7011 - val_loss: 55.6870 - val_reconstruction_error: 39.4239 - val_regularization_error: 16.2631
Epoch 733/1000
120/120 [=====] - 19s 160ms/step - loss: 32.5274 - reconstruction_error: 15.6768 - regularization_error: 16.8506 - val_loss: 55.7246 - val_reconstruction_error: 40.2477 - val_regularization_error: 15.4768
Epoch 734/1000
120/120 [=====] - 17s 142ms/step - loss: 32.4868 - reconstruction_error: 15.6928 - regularization_error: 16.7940 - val_loss: 55.8882 - val_reconstruction_error: 40.5043 - val_regularization_error: 15.3839
Epoch 735/1000
120/120 [=====] - 20s 164ms/step - loss: 32.4896 - reconstruction_error: 15.7381 - regularization_error: 16.7515 - val_loss: 55.7251 - val_reconstruction_error: 40.4274 - val_regularization_error: 15.2977
Epoch 736/1000
120/120 [=====] - 20s 166ms/step - loss: 32.5065 - reconstruction_error: 15.7285 - regularization_error: 16.7780 - val_loss: 55.6829 - val_reconstruction_error: 39.7937 - val_regularization_error: 15.8892
Epoch 737/1000
120/120 [=====] - 19s 156ms/step - loss: 32.6592 - reconstruction_error: 15.6694 - regularization_error: 16.9898 - val_loss: 57.4194 - val_reconstruction_error: 39.4587 - val_regularization_error: 17.9608
Epoch 738/1000
120/120 [=====] - 19s 161ms/step - loss: 32.5740 - reconstruction_error: 15.8143 - regularization_error: 16.7598 - val_loss: 54.9178 - val_reconstruction_error: 39.4048 - val_regularization_error: 15.5130
Epoch 739/1000
120/120 [=====] - 21s 169ms/step - loss: 32.4346 - reconstruction_error: 15.6738 - regularization_error: 16.7608 - val_loss: 56.1770 - val_reconstruction_error: 40.8508 - val_regularization_error: 15.3262
Epoch 740/1000
120/120 [=====] - 19s 154ms/step - loss: 32.5492 - reconstruction_error: 15.7978 - regularization_error: 16.7515 - val_loss: 56.1760 - val_reconstruction_error: 40.1004 - val_regularization_error: 16.0755
Epoch 741/1000
120/120 [=====] - ETA: 0s - loss: 32.5408 - reconstruction_error: 15.8352 - regularization_error: 16.7056
[2023-12-01 18:53:58.595490]: Reconstructing images for epoch 741 ...
```



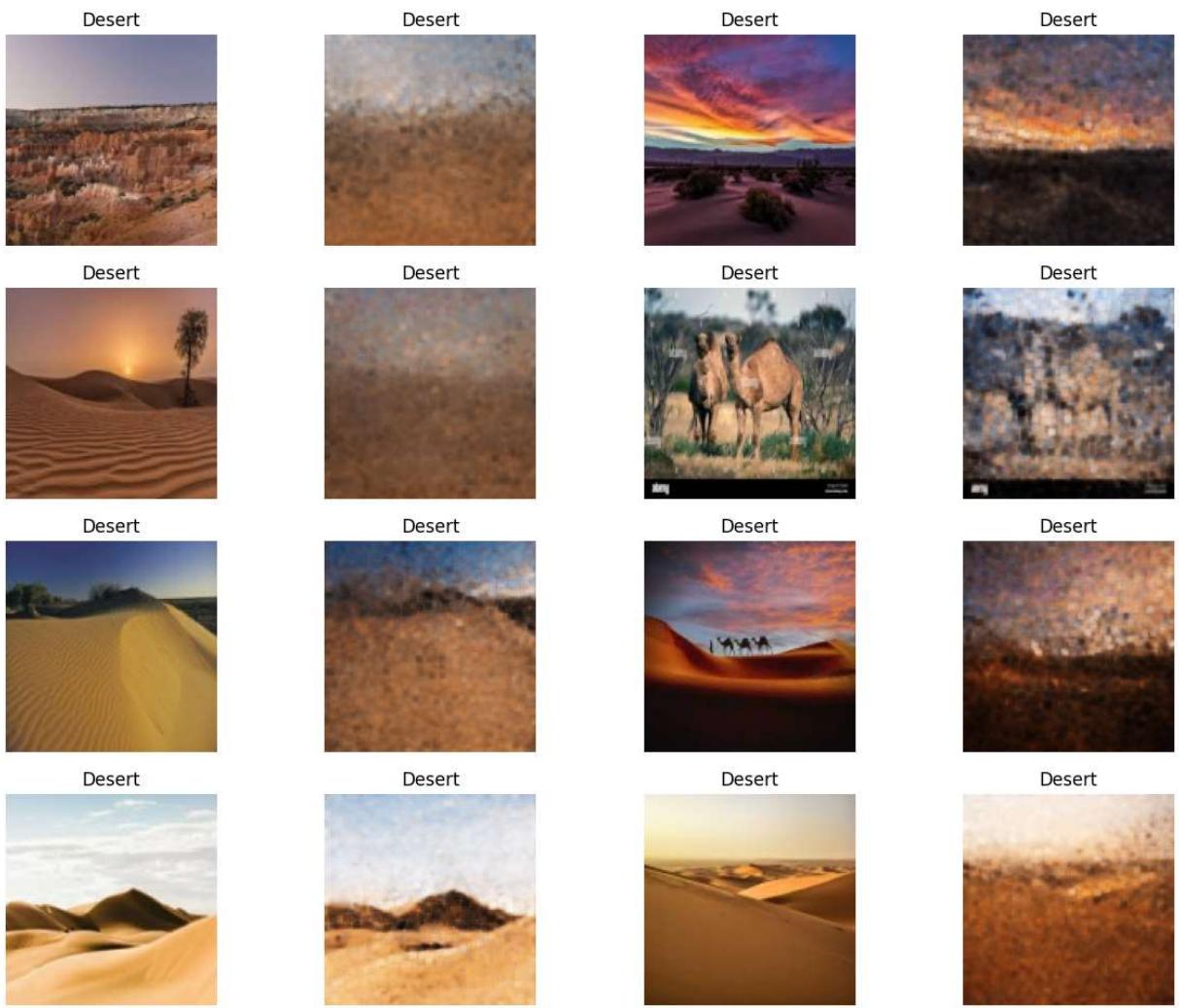
```
120/120 [=====] - 22s 181ms/step - loss: 32.5408 - reconstruction_error: 15.8352 - regularization_error: 16.7056 - val_loss: 54.5937 - val_reconstruction_error: 39.2206 - val_regularization_error: 15.3731
Epoch 742/1000
120/120 [=====] - 19s 158ms/step - loss: 32.5044 - reconstruction_error: 15.7392 - regularization_error: 16.7652 - val_loss: 55.6934 - val_reconstruction_error: 40.1493 - val_regularization_error: 15.5441
Epoch 743/1000
120/120 [=====] - 19s 155ms/step - loss: 32.4467 - reconstruction_error: 15.6784 - regularization_error: 16.7682 - val_loss: 55.5735 - val_reconstruction_error: 41.0824 - val_regularization_error: 14.4912
Epoch 744/1000
120/120 [=====] - 22s 181ms/step - loss: 32.5861 - reconstruction_error: 15.7657 - regularization_error: 16.8204 - val_loss: 55.6064 - val_reconstruction_error: 39.6804 - val_regularization_error: 15.9260
Epoch 745/1000
120/120 [=====] - 22s 181ms/step - loss: 32.6721 - reconstruction_error: 15.7534 - regularization_error: 16.9187 - val_loss: 55.4958 - val_reconstruction_error: 39.0589 - val_regularization_error: 16.4369
Epoch 746/1000
120/120 [=====] - 19s 159ms/step - loss: 32.4960 - reconstruction_error: 15.6761 - regularization_error: 16.8199 - val_loss: 56.0213 - val_reconstruction_error: 40.9922 - val_regularization_error: 15.0291
Epoch 747/1000
120/120 [=====] - 23s 195ms/step - loss: 32.4339 - reconstruction_error: 15.7025 - regularization_error: 16.7314 - val_loss: 55.7212 - val_reconstruction_error: 39.0602 - val_regularization_error: 16.6611
Epoch 748/1000
120/120 [=====] - 22s 183ms/step - loss: 32.5906 - reconstruction_error: 15.7834 - regularization_error: 16.8073 - val_loss: 55.8995 - val_reconstruction_error: 39.9758 - val_regularization_error: 15.9238
Epoch 749/1000
120/120 [=====] - 19s 157ms/step - loss: 32.5670 - reconstruction_error: 15.5869 - regularization_error: 16.9801 - val_loss: 55.5269 - val_reconstruction_error: 39.4812 - val_regularization_error: 16.0456
Epoch 750/1000
120/120 [=====] - 19s 158ms/step - loss: 32.3588 - reconstruction_error: 15.5554 - regularization_error: 16.8034 - val_loss: 56.4213 - val_reconstruction_error: 40.6986 - val_regularization_error: 15.7226
Epoch 751/1000
120/120 [=====] - ETA: 0s - loss: 32.5932 - reconstruction_error: 15.8393 - regularization_error: 16.7539
[2023-12-01 18:57:24.779003]: Reconstructing images for epoch 751 ...
```



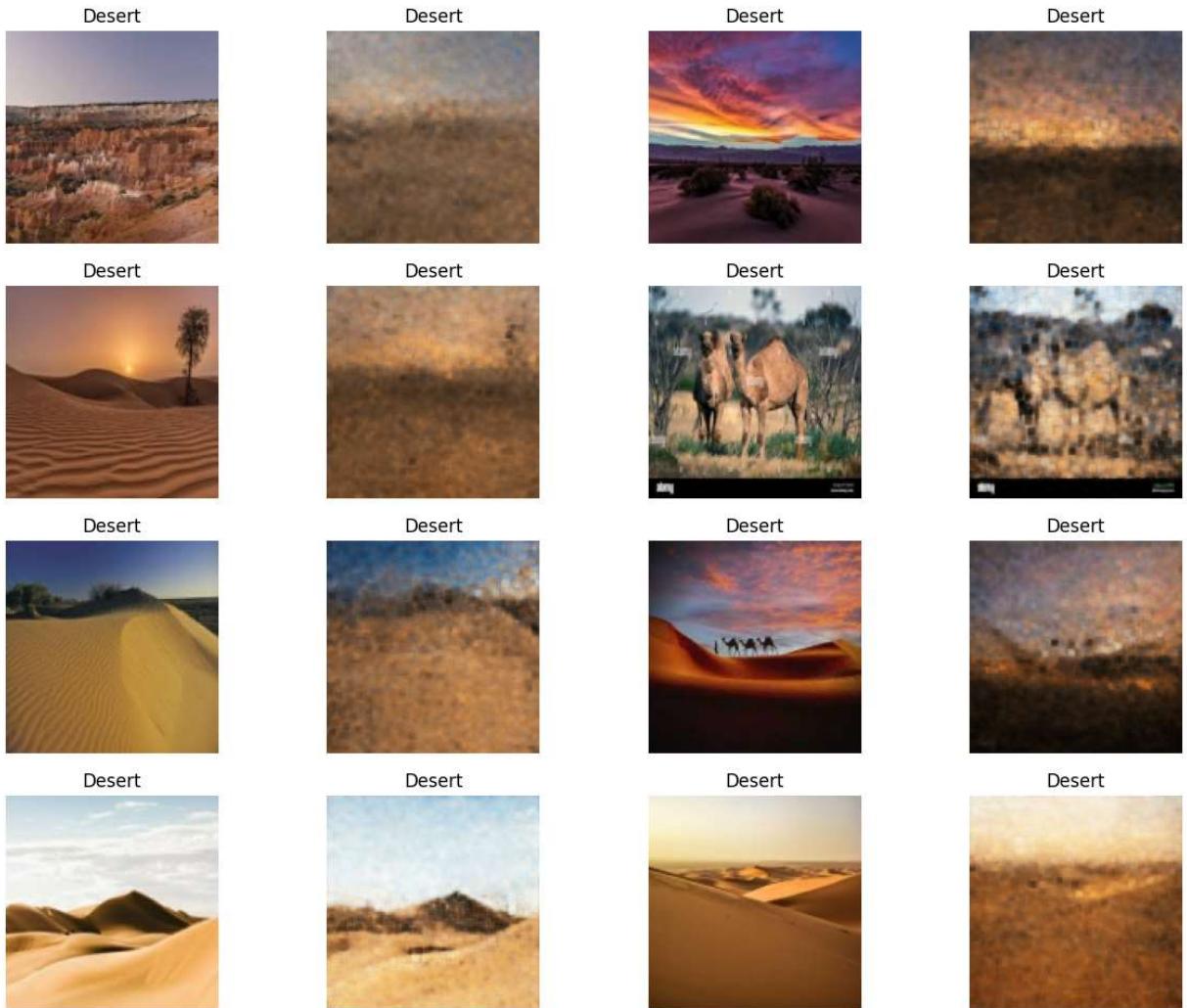
```
120/120 [=====] - 21s 176ms/step - loss: 32.5932 - reconstruction_error: 15.8393 - regularization_error: 16.7539 - val_loss: 56.2509 - val_reconstruction_error: 39.4525 - val_regularization_error: 16.7984
Epoch 752/1000
120/120 [=====] - 16s 134ms/step - loss: 32.4732 - reconstruction_error: 15.6522 - regularization_error: 16.8210 - val_loss: 56.1938 - val_reconstruction_error: 40.5953 - val_regularization_error: 15.5986
Epoch 753/1000
120/120 [=====] - 19s 153ms/step - loss: 32.4311 - reconstruction_error: 15.6708 - regularization_error: 16.7603 - val_loss: 56.4778 - val_reconstruction_error: 39.6427 - val_regularization_error: 16.8351
Epoch 754/1000
120/120 [=====] - 20s 167ms/step - loss: 32.3788 - reconstruction_error: 15.6351 - regularization_error: 16.7437 - val_loss: 55.1635 - val_reconstruction_error: 40.5300 - val_regularization_error: 14.6335
Epoch 755/1000
120/120 [=====] - 20s 162ms/step - loss: 32.2171 - reconstruction_error: 15.5333 - regularization_error: 16.6839 - val_loss: 56.7406 - val_reconstruction_error: 39.3291 - val_regularization_error: 17.4114
Epoch 756/1000
120/120 [=====] - 17s 141ms/step - loss: 32.3352 - reconstruction_error: 15.6346 - regularization_error: 16.7006 - val_loss: 55.4323 - val_reconstruction_error: 39.4767 - val_regularization_error: 15.9556
Epoch 757/1000
120/120 [=====] - 19s 156ms/step - loss: 32.1892 - reconstruction_error: 15.5456 - regularization_error: 16.6435 - val_loss: 56.0134 - val_reconstruction_error: 41.1494 - val_regularization_error: 14.8640
Epoch 758/1000
120/120 [=====] - 20s 161ms/step - loss: 32.4427 - reconstruction_error: 15.5741 - regularization_error: 16.8686 - val_loss: 55.4096 - val_reconstruction_error: 39.4666 - val_regularization_error: 15.9430
Epoch 759/1000
120/120 [=====] - 18s 148ms/step - loss: 32.3451 - reconstruction_error: 15.6092 - regularization_error: 16.7359 - val_loss: 55.7670 - val_reconstruction_error: 40.7565 - val_regularization_error: 15.0105
Epoch 760/1000
120/120 [=====] - 21s 172ms/step - loss: 32.5212 - reconstruction_error: 15.6422 - regularization_error: 16.8789 - val_loss: 55.6837 - val_reconstruction_error: 39.4697 - val_regularization_error: 16.2139
Epoch 761/1000
120/120 [=====] - ETA: 0s - loss: 32.3803 - reconstruction_error: 15.6854 - regularization_error: 16.6949
[2023-12-01 19:00:34.526845]: Reconstructing images for epoch 761 ...
```



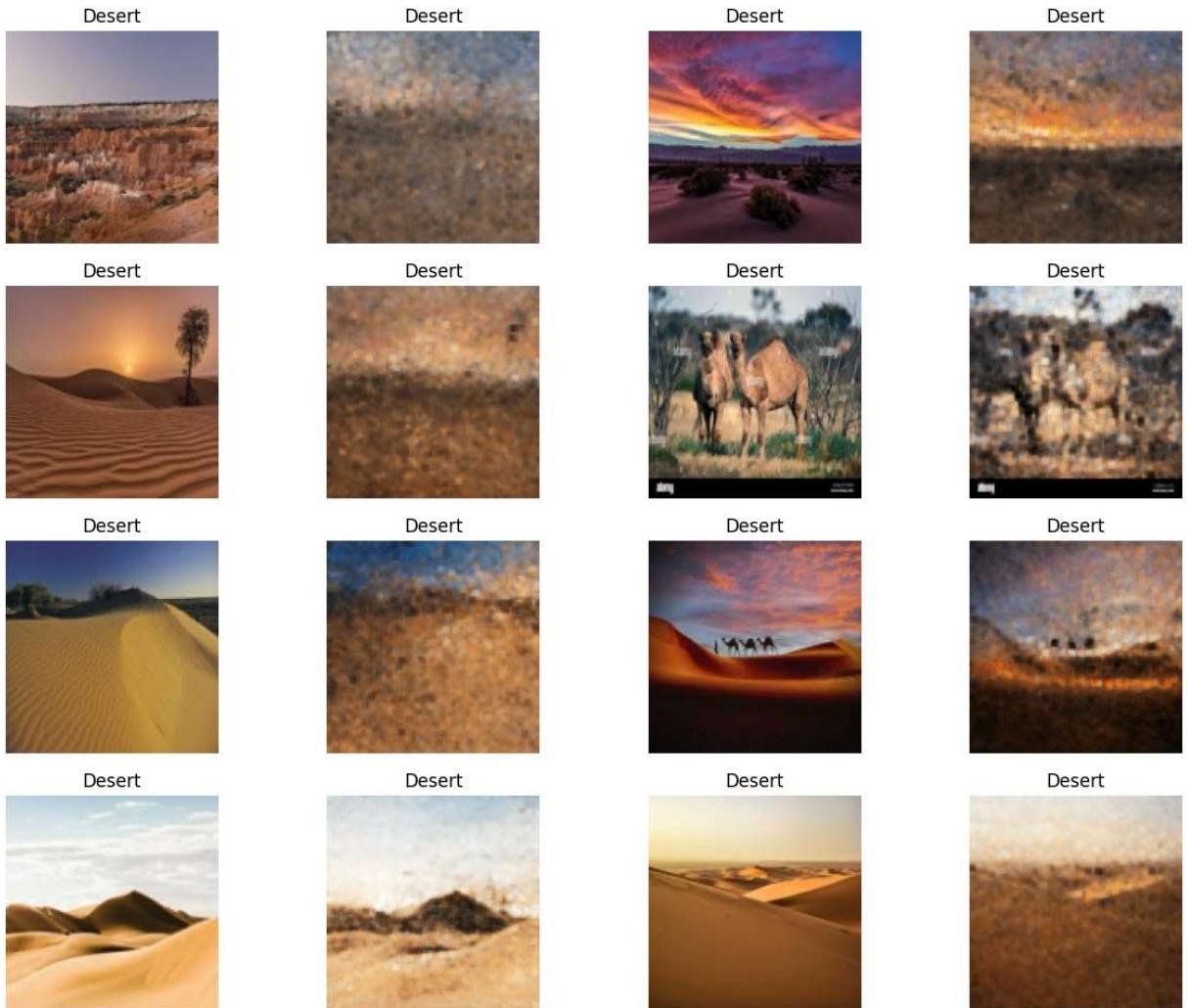
```
120/120 [=====] - 20s 169ms/step - loss: 32.3803 - reconstruction_error: 15.6854 - regularization_error: 16.6949 - val_loss: 55.7610 - val_reconstruction_error: 40.7933 - val_regularization_error: 14.9678
Epoch 762/1000
120/120 [=====] - 20s 163ms/step - loss: 32.3020 - reconstruction_error: 15.5725 - regularization_error: 16.7295 - val_loss: 55.8725 - val_reconstruction_error: 40.9770 - val_regularization_error: 14.8955
Epoch 763/1000
120/120 [=====] - 20s 163ms/step - loss: 32.3323 - reconstruction_error: 15.5462 - regularization_error: 16.7861 - val_loss: 55.6453 - val_reconstruction_error: 40.4545 - val_regularization_error: 15.1908
Epoch 764/1000
120/120 [=====] - 22s 180ms/step - loss: 32.2135 - reconstruction_error: 15.5119 - regularization_error: 16.7016 - val_loss: 55.4938 - val_reconstruction_error: 39.5658 - val_regularization_error: 15.9280
Epoch 765/1000
120/120 [=====] - 20s 162ms/step - loss: 32.5070 - reconstruction_error: 15.6276 - regularization_error: 16.8795 - val_loss: 56.6579 - val_reconstruction_error: 40.3672 - val_regularization_error: 16.2907
Epoch 766/1000
120/120 [=====] - 19s 159ms/step - loss: 32.5486 - reconstruction_error: 15.6809 - regularization_error: 16.8678 - val_loss: 55.3739 - val_reconstruction_error: 39.7557 - val_regularization_error: 15.6181
Epoch 767/1000
120/120 [=====] - 18s 144ms/step - loss: 32.4594 - reconstruction_error: 15.7486 - regularization_error: 16.7108 - val_loss: 55.6052 - val_reconstruction_error: 38.9486 - val_regularization_error: 16.6566
Epoch 768/1000
120/120 [=====] - 22s 181ms/step - loss: 32.2473 - reconstruction_error: 15.4476 - regularization_error: 16.7997 - val_loss: 55.3925 - val_reconstruction_error: 39.7053 - val_regularization_error: 15.6872
Epoch 769/1000
120/120 [=====] - 18s 153ms/step - loss: 32.2079 - reconstruction_error: 15.5554 - regularization_error: 16.6525 - val_loss: 55.5946 - val_reconstruction_error: 39.8799 - val_regularization_error: 15.7147
Epoch 770/1000
120/120 [=====] - 16s 130ms/step - loss: 32.4637 - reconstruction_error: 15.6193 - regularization_error: 16.8444 - val_loss: 55.4810 - val_reconstruction_error: 41.6943 - val_regularization_error: 13.7867
Epoch 771/1000
120/120 [=====] - ETA: 0s - loss: 32.2842 - reconstruction_error: 15.5751 - regularization_error: 16.7090
[2023-12-01 19:03:50.823769]: Reconstructing images for epoch 771 ...
```



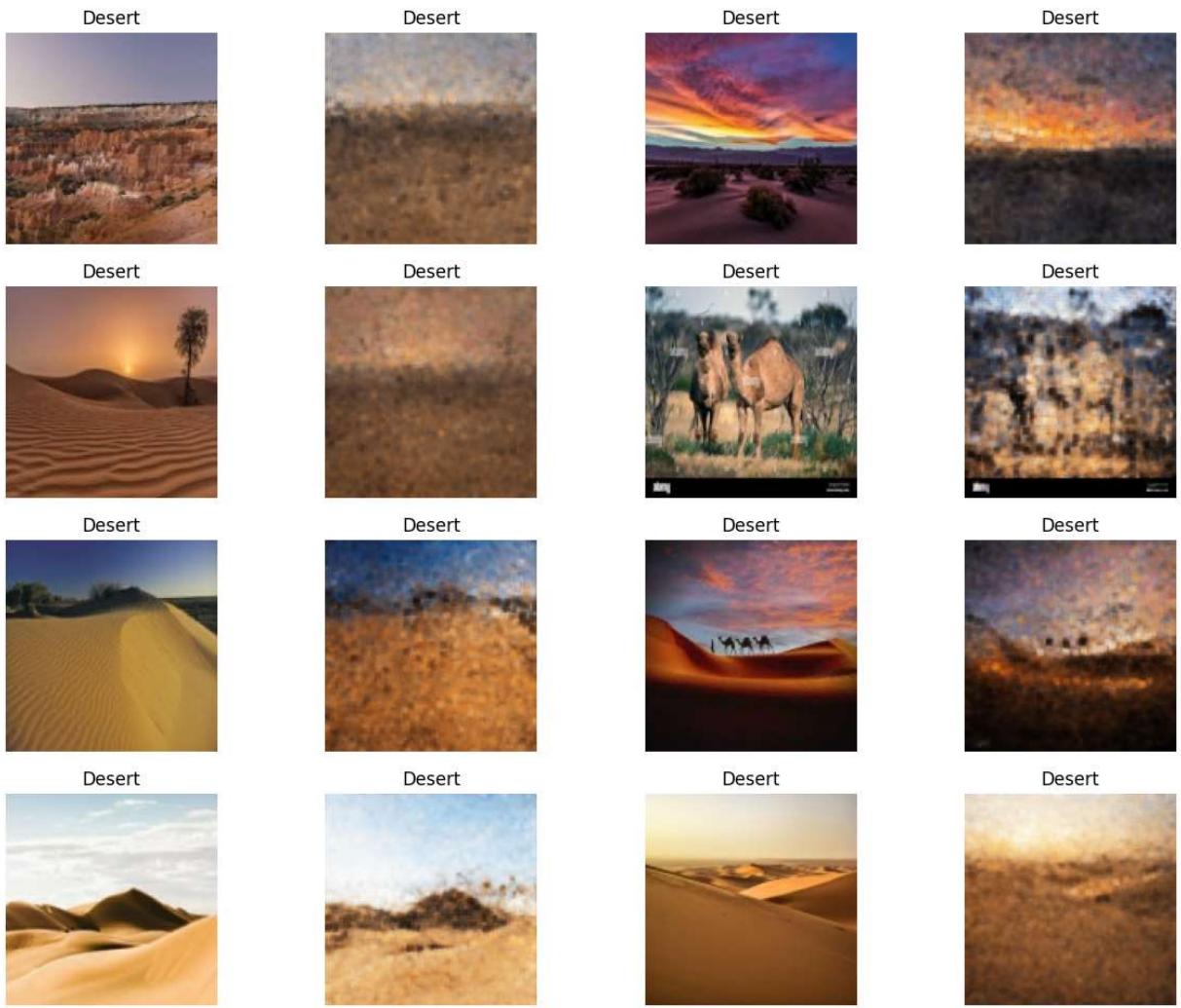
```
120/120 [=====] - 20s 166ms/step - loss: 32.2842 - reconstruction_error: 15.5751 - regularization_error: 16.7090 - val_loss: 55.6747 - val_reconstruction_error: 40.6123 - val_regularization_error: 15.0624
Epoch 772/1000
120/120 [=====] - 18s 147ms/step - loss: 32.4351 - reconstruction_error: 15.6613 - regularization_error: 16.7738 - val_loss: 56.4204 - val_reconstruction_error: 40.8831 - val_regularization_error: 15.5373
Epoch 773/1000
120/120 [=====] - 22s 184ms/step - loss: 32.3874 - reconstruction_error: 15.5868 - regularization_error: 16.8006 - val_loss: 55.0329 - val_reconstruction_error: 39.9472 - val_regularization_error: 15.0856
Epoch 774/1000
120/120 [=====] - 16s 131ms/step - loss: 32.1945 - reconstruction_error: 15.4372 - regularization_error: 16.7572 - val_loss: 56.3109 - val_reconstruction_error: 40.6329 - val_regularization_error: 15.6780
Epoch 775/1000
120/120 [=====] - 18s 149ms/step - loss: 32.3679 - reconstruction_error: 15.5678 - regularization_error: 16.8001 - val_loss: 55.7443 - val_reconstruction_error: 40.8395 - val_regularization_error: 14.9048
Epoch 776/1000
120/120 [=====] - 18s 149ms/step - loss: 32.4210 - reconstruction_error: 15.5373 - regularization_error: 16.8837 - val_loss: 55.9841 - val_reconstruction_error: 39.7984 - val_regularization_error: 16.1857
Epoch 777/1000
120/120 [=====] - 17s 143ms/step - loss: 32.3672 - reconstruction_error: 15.6011 - regularization_error: 16.7661 - val_loss: 55.1176 - val_reconstruction_error: 39.9320 - val_regularization_error: 15.1857
Epoch 778/1000
120/120 [=====] - 18s 152ms/step - loss: 32.2762 - reconstruction_error: 15.4976 - regularization_error: 16.7786 - val_loss: 56.3384 - val_reconstruction_error: 40.4688 - val_regularization_error: 15.8695
Epoch 779/1000
120/120 [=====] - 19s 155ms/step - loss: 32.3868 - reconstruction_error: 15.5770 - regularization_error: 16.8097 - val_loss: 54.8976 - val_reconstruction_error: 39.5341 - val_regularization_error: 15.3636
Epoch 780/1000
120/120 [=====] - 19s 152ms/step - loss: 32.1554 - reconstruction_error: 15.3748 - regularization_error: 16.7805 - val_loss: 55.0660 - val_reconstruction_error: 39.8865 - val_regularization_error: 15.1795
Epoch 781/1000
120/120 [=====] - ETA: 0s - loss: 32.2540 - reconstruction_error: 15.4301 - regularization_error: 16.8239
[2023-12-01 19:06:59.095334]: Reconstructing images for epoch 781 ...
```



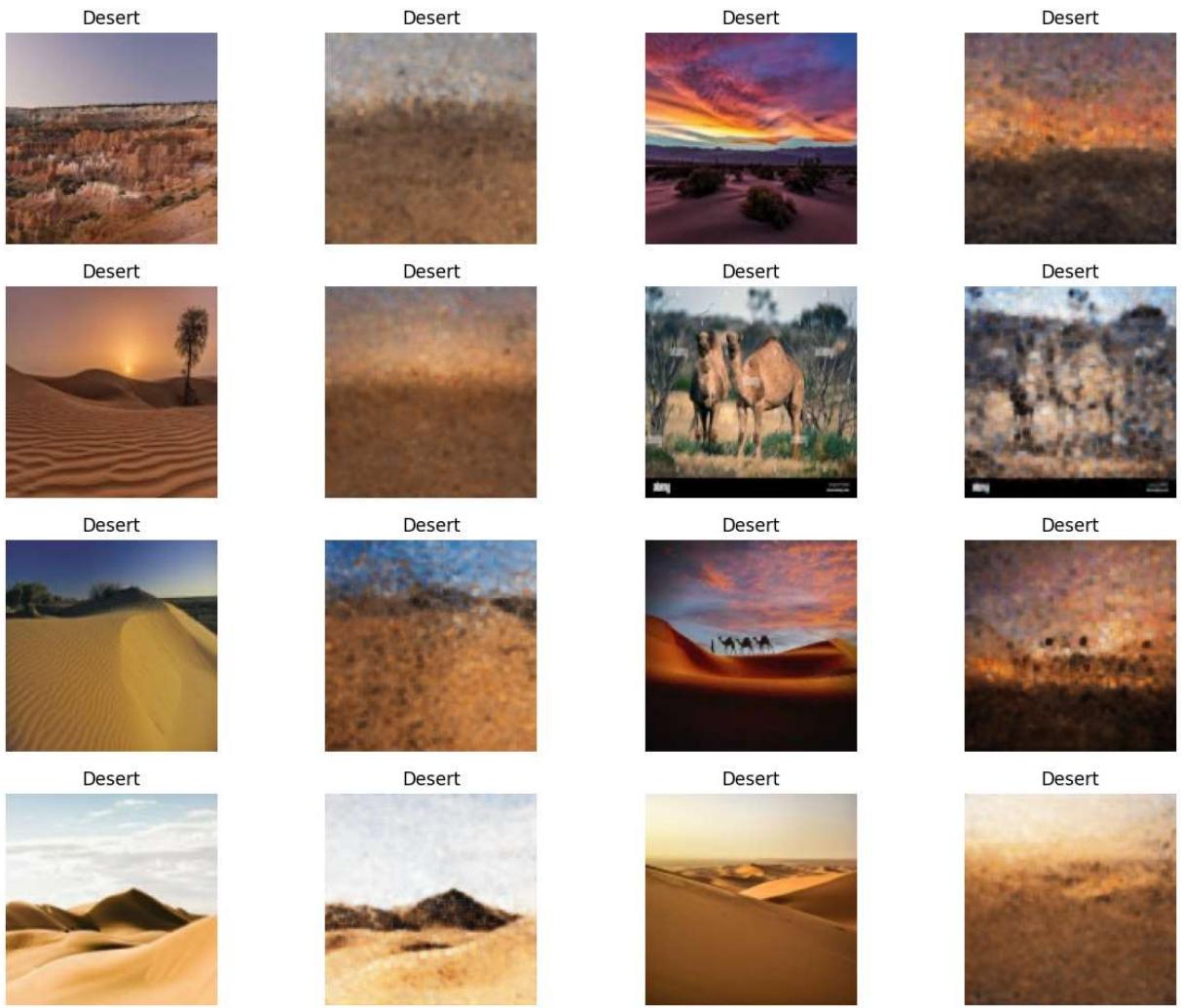
```
120/120 [=====] - 22s 181ms/step - loss: 32.2540 - reconstruction_error: 15.4301 - regularization_error: 16.8239 - val_loss: 55.4860 - val_reconstruction_error: 39.6237 - val_regularization_error: 15.8624
Epoch 782/1000
120/120 [=====] - 19s 155ms/step - loss: 32.2207 - reconstruction_error: 15.4911 - regularization_error: 16.7296 - val_loss: 55.4934 - val_reconstruction_error: 40.5699 - val_regularization_error: 14.9235
Epoch 783/1000
120/120 [=====] - 22s 180ms/step - loss: 32.3232 - reconstruction_error: 15.5340 - regularization_error: 16.7891 - val_loss: 55.8818 - val_reconstruction_error: 39.6695 - val_regularization_error: 16.2124
Epoch 784/1000
120/120 [=====] - 18s 149ms/step - loss: 32.3670 - reconstruction_error: 15.5344 - regularization_error: 16.8327 - val_loss: 56.2991 - val_reconstruction_error: 40.1923 - val_regularization_error: 16.1068
Epoch 785/1000
120/120 [=====] - 17s 143ms/step - loss: 32.3518 - reconstruction_error: 15.5586 - regularization_error: 16.7932 - val_loss: 56.1375 - val_reconstruction_error: 40.0436 - val_regularization_error: 16.0939
Epoch 786/1000
120/120 [=====] - 22s 180ms/step - loss: 32.1679 - reconstruction_error: 15.3706 - regularization_error: 16.7974 - val_loss: 55.6074 - val_reconstruction_error: 39.8467 - val_regularization_error: 15.7607
Epoch 787/1000
120/120 [=====] - 19s 154ms/step - loss: 32.2581 - reconstruction_error: 15.4103 - regularization_error: 16.8479 - val_loss: 56.0614 - val_reconstruction_error: 41.1186 - val_regularization_error: 14.9428
Epoch 788/1000
120/120 [=====] - 18s 152ms/step - loss: 32.1742 - reconstruction_error: 15.4667 - regularization_error: 16.7076 - val_loss: 56.3015 - val_reconstruction_error: 41.1077 - val_regularization_error: 15.1938
Epoch 789/1000
120/120 [=====] - 20s 166ms/step - loss: 32.1001 - reconstruction_error: 15.3784 - regularization_error: 16.7218 - val_loss: 57.0467 - val_reconstruction_error: 40.4214 - val_regularization_error: 16.6253
Epoch 790/1000
120/120 [=====] - 18s 144ms/step - loss: 32.3101 - reconstruction_error: 15.4842 - regularization_error: 16.8259 - val_loss: 55.8299 - val_reconstruction_error: 40.9720 - val_regularization_error: 14.8579
Epoch 791/1000
120/120 [=====] - ETA: 0s - loss: 32.2064 - reconstruction_error: 15.5171 - regularization_error: 16.6893
[2023-12-01 19:10:13.975509]: Reconstructing images for epoch 791 ...
```



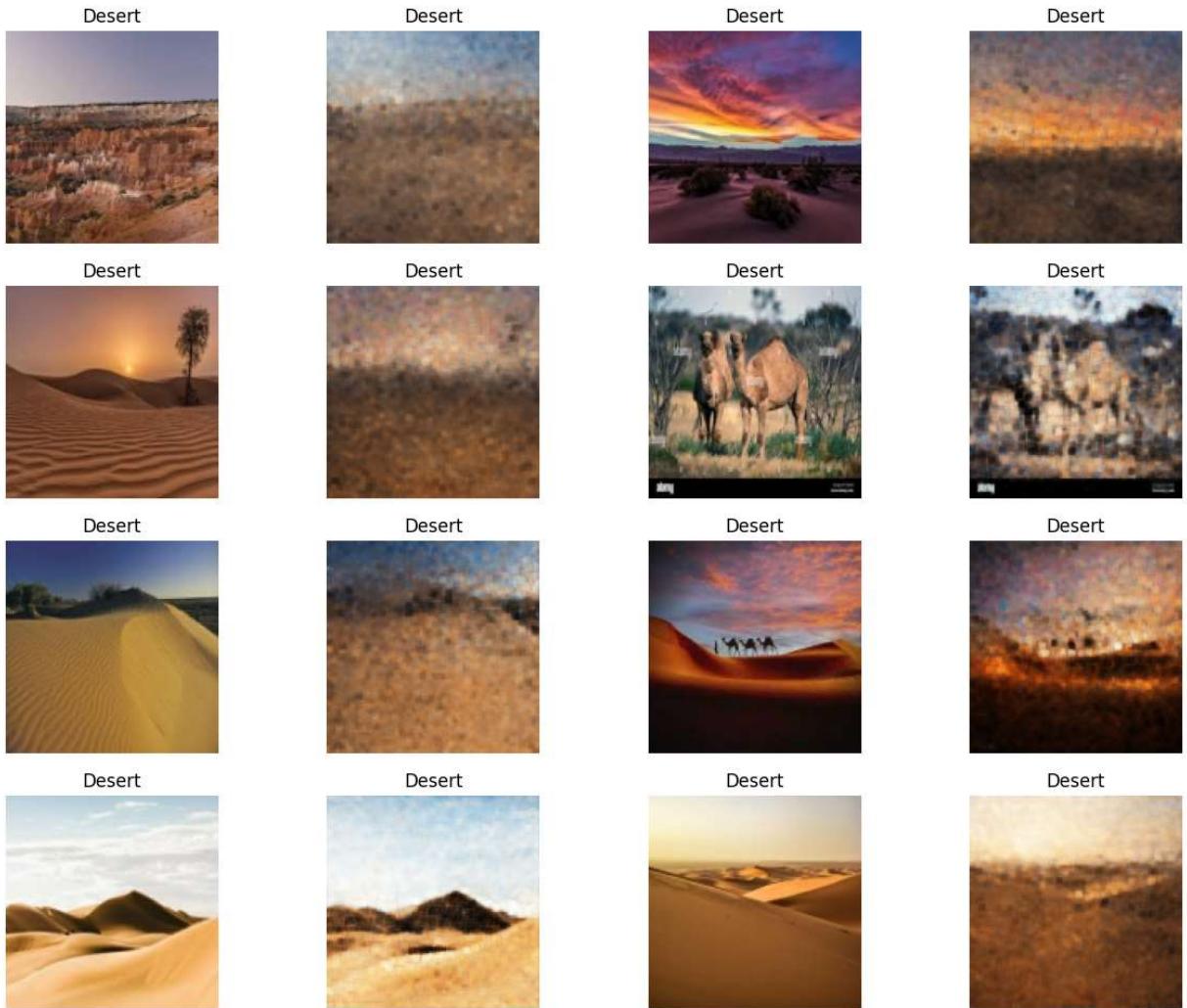
```
120/120 [=====] - 21s 172ms/step - loss: 32.2064 - reconstruction_error: 15.5171 - regularization_error: 16.6893 - val_loss: 55.5228 - val_reconstruction_error: 39.7913 - val_regularization_error: 15.7316
Epoch 792/1000
120/120 [=====] - 19s 163ms/step - loss: 32.2869 - reconstruction_error: 15.5500 - regularization_error: 16.7370 - val_loss: 55.9817 - val_reconstruction_error: 41.0907 - val_regularization_error: 14.8910
Epoch 793/1000
120/120 [=====] - 22s 181ms/step - loss: 32.3940 - reconstruction_error: 15.6219 - regularization_error: 16.7721 - val_loss: 56.7074 - val_reconstruction_error: 40.5800 - val_regularization_error: 16.1274
Epoch 794/1000
120/120 [=====] - 20s 167ms/step - loss: 32.0373 - reconstruction_error: 15.3710 - regularization_error: 16.6663 - val_loss: 57.1618 - val_reconstruction_error: 41.0674 - val_regularization_error: 16.0944
Epoch 795/1000
120/120 [=====] - 19s 160ms/step - loss: 32.3170 - reconstruction_error: 15.5728 - regularization_error: 16.7442 - val_loss: 56.7590 - val_reconstruction_error: 40.5677 - val_regularization_error: 16.1913
Epoch 796/1000
120/120 [=====] - 18s 149ms/step - loss: 32.1265 - reconstruction_error: 15.2894 - regularization_error: 16.8372 - val_loss: 55.9109 - val_reconstruction_error: 40.3939 - val_regularization_error: 15.5170
Epoch 797/1000
120/120 [=====] - 19s 156ms/step - loss: 32.1078 - reconstruction_error: 15.3629 - regularization_error: 16.7449 - val_loss: 56.1462 - val_reconstruction_error: 40.0243 - val_regularization_error: 16.1219
Epoch 798/1000
120/120 [=====] - 20s 166ms/step - loss: 32.2151 - reconstruction_error: 15.4346 - regularization_error: 16.7805 - val_loss: 55.6948 - val_reconstruction_error: 40.4674 - val_regularization_error: 15.2274
Epoch 799/1000
120/120 [=====] - 21s 171ms/step - loss: 32.0739 - reconstruction_error: 15.3582 - regularization_error: 16.7157 - val_loss: 56.4180 - val_reconstruction_error: 39.8018 - val_regularization_error: 16.6162
Epoch 800/1000
120/120 [=====] - 20s 170ms/step - loss: 32.3603 - reconstruction_error: 15.4652 - regularization_error: 16.8951 - val_loss: 56.3675 - val_reconstruction_error: 40.4519 - val_regularization_error: 15.9156
Epoch 801/1000
120/120 [=====] - ETA: 0s - loss: 32.1504 - reconstruction_error: 15.4194 - regularization_error: 16.7310
[2023-12-01 19:13:40.325403]: Reconstructing images for epoch 801 ...
```



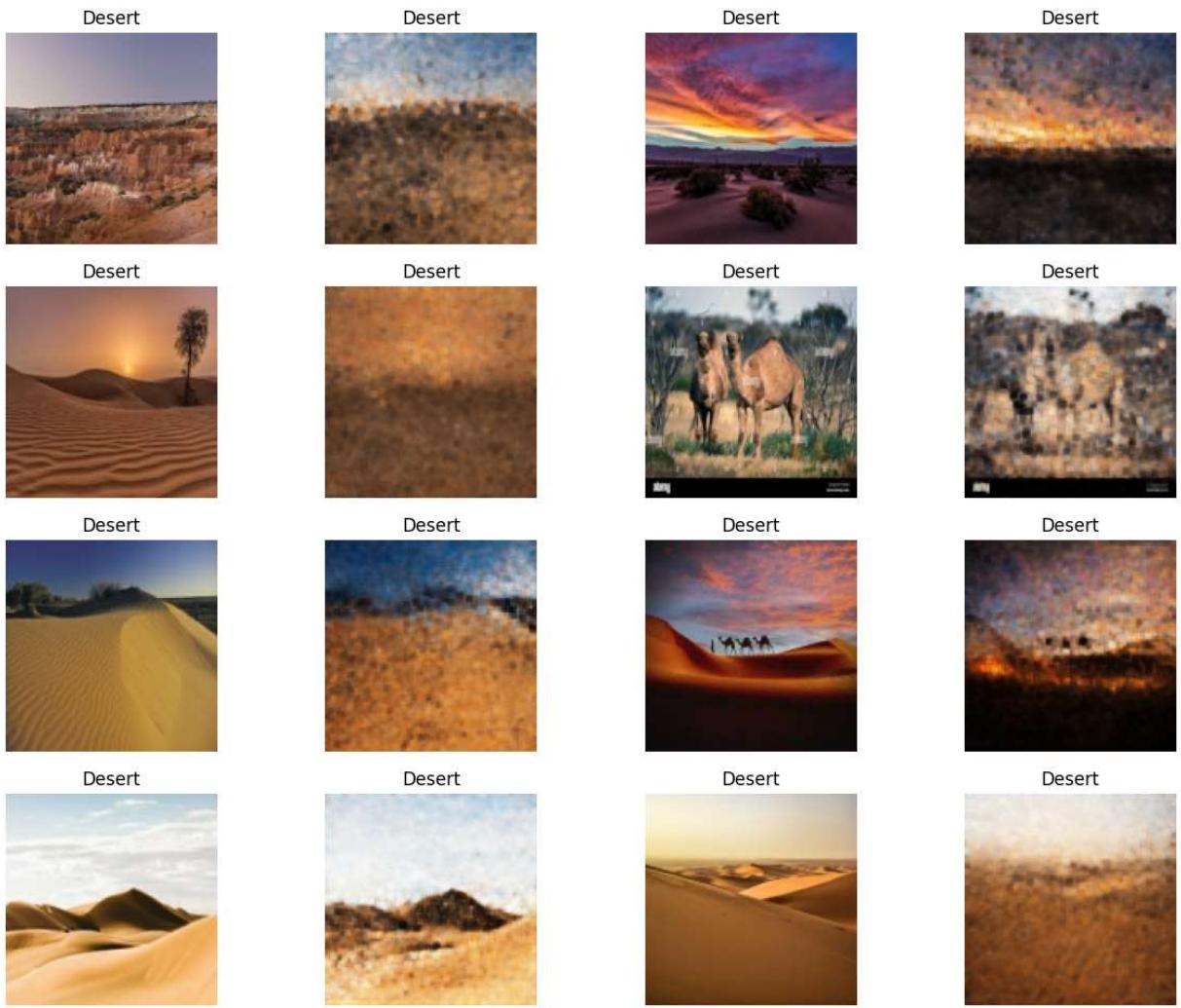
```
120/120 [=====] - 25s 209ms/step - loss: 32.1504 - reconstruction_error: 15.4194 - regularization_error: 16.7310 - val_loss: 55.7908 - val_reconstruction_error: 40.4131 - val_regularization_error: 15.3777
Epoch 802/1000
120/120 [=====] - 21s 173ms/step - loss: 32.2234 - reconstruction_error: 15.4622 - regularization_error: 16.7612 - val_loss: 56.8101 - val_reconstruction_error: 40.3436 - val_regularization_error: 16.4665
Epoch 803/1000
120/120 [=====] - 19s 158ms/step - loss: 32.2683 - reconstruction_error: 15.4111 - regularization_error: 16.8573 - val_loss: 56.3905 - val_reconstruction_error: 40.6216 - val_regularization_error: 15.7689
Epoch 804/1000
120/120 [=====] - 20s 163ms/step - loss: 32.1942 - reconstruction_error: 15.4528 - regularization_error: 16.7414 - val_loss: 55.3449 - val_reconstruction_error: 40.4307 - val_regularization_error: 14.9142
Epoch 805/1000
120/120 [=====] - 20s 166ms/step - loss: 32.2039 - reconstruction_error: 15.3277 - regularization_error: 16.8762 - val_loss: 55.9060 - val_reconstruction_error: 39.7450 - val_regularization_error: 16.1610
Epoch 806/1000
120/120 [=====] - 26s 215ms/step - loss: 32.2118 - reconstruction_error: 15.5087 - regularization_error: 16.7031 - val_loss: 56.0707 - val_reconstruction_error: 40.3020 - val_regularization_error: 15.7686
Epoch 807/1000
120/120 [=====] - 18s 147ms/step - loss: 32.0999 - reconstruction_error: 15.4410 - regularization_error: 16.6589 - val_loss: 56.3185 - val_reconstruction_error: 40.4146 - val_regularization_error: 15.9039
Epoch 808/1000
120/120 [=====] - 18s 151ms/step - loss: 32.0087 - reconstruction_error: 15.3607 - regularization_error: 16.6480 - val_loss: 55.6362 - val_reconstruction_error: 40.8892 - val_regularization_error: 14.7470
Epoch 809/1000
120/120 [=====] - 21s 171ms/step - loss: 32.1611 - reconstruction_error: 15.3941 - regularization_error: 16.7669 - val_loss: 55.8235 - val_reconstruction_error: 40.0660 - val_regularization_error: 15.7575
Epoch 810/1000
120/120 [=====] - 19s 159ms/step - loss: 32.0736 - reconstruction_error: 15.3169 - regularization_error: 16.7567 - val_loss: 56.9760 - val_reconstruction_error: 41.0178 - val_regularization_error: 15.9582
Epoch 811/1000
120/120 [=====] - ETA: 0s - loss: 32.0850 - reconstruction_error: 15.3949 - regularization_error: 16.6901
[2023-12-01 19:17:07.846025]: Reconstructing images for epoch 811 ...
```



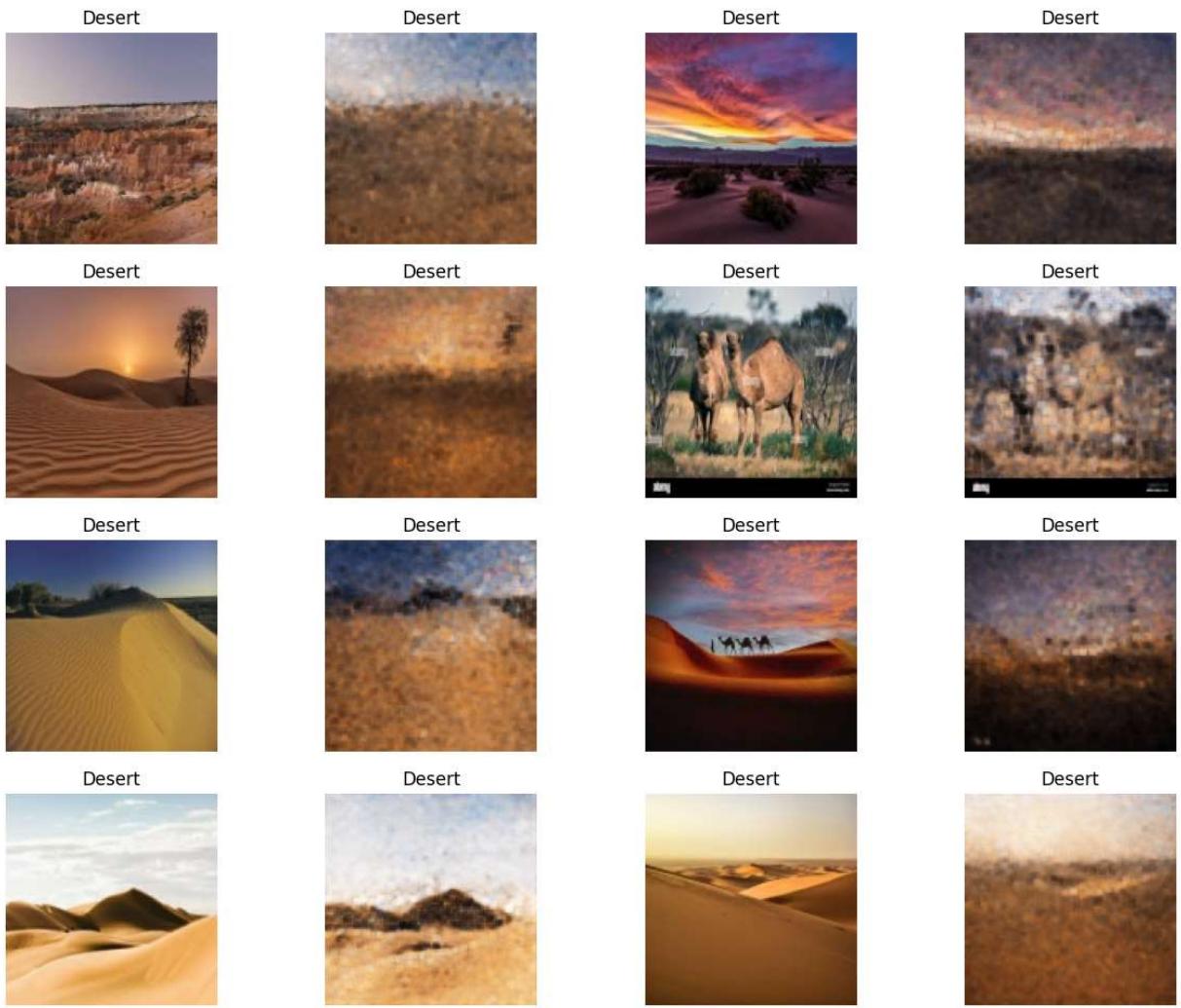
```
120/120 [=====] - 22s 184ms/step - loss: 32.0850 - reconstruction_error: 15.3949 - regularization_error: 16.6901 - val_loss: 55.5865 - val_reconstruction_error: 40.2505 - val_regularization_error: 15.3361
Epoch 812/1000
120/120 [=====] - 16s 135ms/step - loss: 32.1353 - reconstruction_error: 15.3397 - regularization_error: 16.7955 - val_loss: 56.2473 - val_reconstruction_error: 40.8559 - val_regularization_error: 15.3914
Epoch 813/1000
120/120 [=====] - 20s 168ms/step - loss: 32.0216 - reconstruction_error: 15.3382 - regularization_error: 16.6834 - val_loss: 55.7453 - val_reconstruction_error: 39.7892 - val_regularization_error: 15.9562
Epoch 814/1000
120/120 [=====] - 18s 152ms/step - loss: 32.0976 - reconstruction_error: 15.2645 - regularization_error: 16.8331 - val_loss: 56.3062 - val_reconstruction_error: 40.3938 - val_regularization_error: 15.9124
Epoch 815/1000
120/120 [=====] - 22s 179ms/step - loss: 32.0002 - reconstruction_error: 15.2784 - regularization_error: 16.7218 - val_loss: 55.5688 - val_reconstruction_error: 40.0619 - val_regularization_error: 15.5070
Epoch 816/1000
120/120 [=====] - 17s 140ms/step - loss: 32.4834 - reconstruction_error: 15.5450 - regularization_error: 16.9384 - val_loss: 56.4878 - val_reconstruction_error: 40.9892 - val_regularization_error: 15.4986
Epoch 817/1000
120/120 [=====] - 18s 148ms/step - loss: 32.0526 - reconstruction_error: 15.3091 - regularization_error: 16.7435 - val_loss: 55.7475 - val_reconstruction_error: 40.4843 - val_regularization_error: 15.2633
Epoch 818/1000
120/120 [=====] - 22s 182ms/step - loss: 31.9938 - reconstruction_error: 15.2792 - regularization_error: 16.7146 - val_loss: 55.4008 - val_reconstruction_error: 40.4377 - val_regularization_error: 14.9632
Epoch 819/1000
120/120 [=====] - 19s 157ms/step - loss: 32.1851 - reconstruction_error: 15.3320 - regularization_error: 16.8531 - val_loss: 57.1639 - val_reconstruction_error: 40.1120 - val_regularization_error: 17.0519
Epoch 820/1000
120/120 [=====] - 19s 156ms/step - loss: 32.0717 - reconstruction_error: 15.3759 - regularization_error: 16.6959 - val_loss: 56.6300 - val_reconstruction_error: 41.0959 - val_regularization_error: 15.5341
Epoch 821/1000
120/120 [=====] - ETA: 0s - loss: 32.0701 - reconstruction_error: 15.3768 - regularization_error: 16.6933
[2023-12-01 19:20:23.592119]: Reconstructing images for epoch 821 ...
```



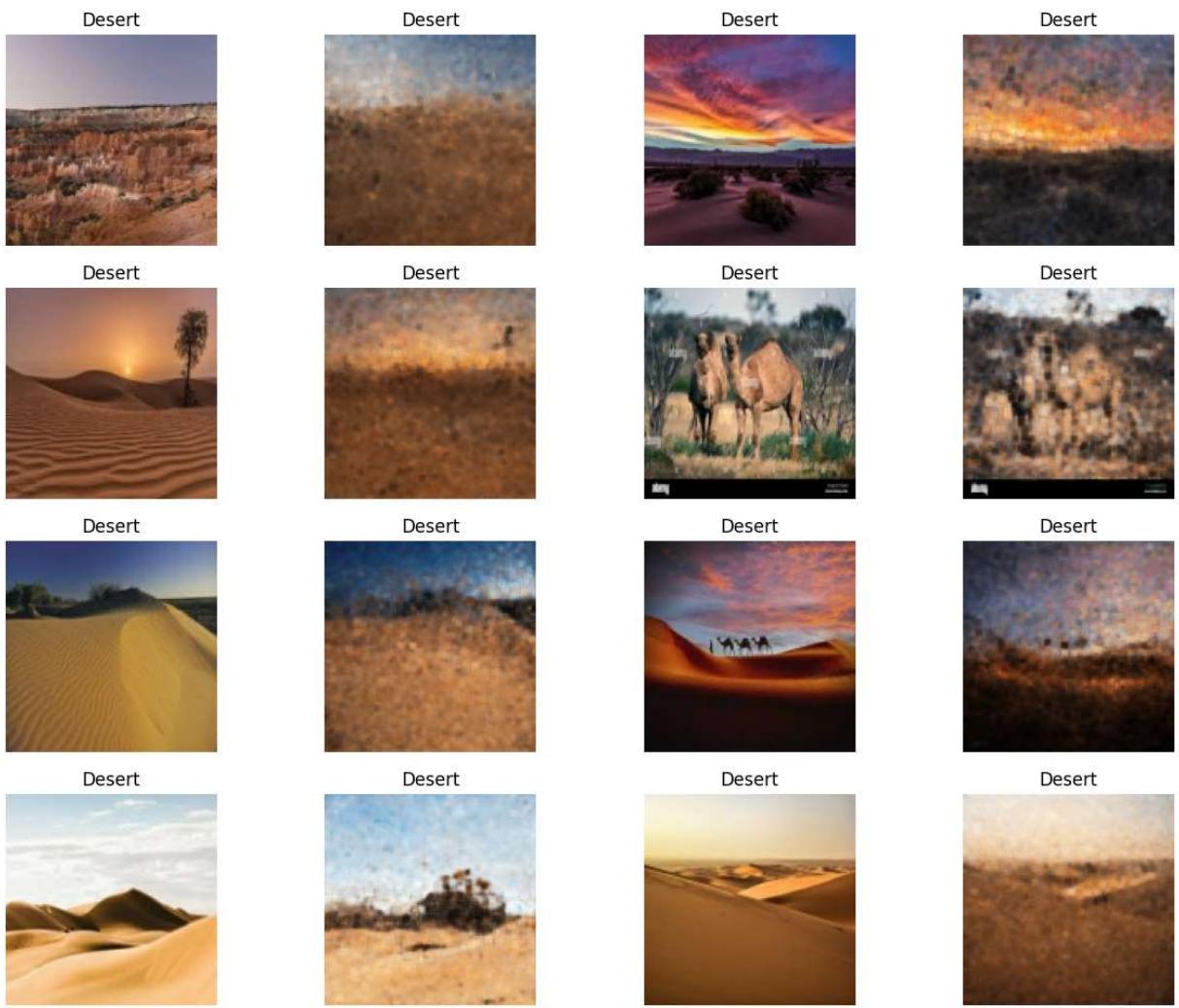
```
120/120 [=====] - 23s 190ms/step - loss: 32.0701 - reconstruction_error: 15.3768 - regularization_error: 16.6933 - val_loss: 56.0968 - val_reconstruction_error: 39.8675 - val_regularization_error: 16.2292
Epoch 822/1000
120/120 [=====] - 22s 180ms/step - loss: 31.9928 - reconstruction_error: 15.2727 - regularization_error: 16.7201 - val_loss: 56.9195 - val_reconstruction_error: 41.8126 - val_regularization_error: 15.1069
Epoch 823/1000
120/120 [=====] - 20s 163ms/step - loss: 32.0803 - reconstruction_error: 15.3500 - regularization_error: 16.7303 - val_loss: 56.3284 - val_reconstruction_error: 40.0832 - val_regularization_error: 16.2452
Epoch 824/1000
120/120 [=====] - 16s 130ms/step - loss: 32.1006 - reconstruction_error: 15.3782 - regularization_error: 16.7224 - val_loss: 56.1816 - val_reconstruction_error: 40.4632 - val_regularization_error: 15.7183
Epoch 825/1000
120/120 [=====] - 19s 158ms/step - loss: 31.9400 - reconstruction_error: 15.2867 - regularization_error: 16.6533 - val_loss: 55.9566 - val_reconstruction_error: 40.6252 - val_regularization_error: 15.3314
Epoch 826/1000
120/120 [=====] - 20s 163ms/step - loss: 32.1374 - reconstruction_error: 15.2975 - regularization_error: 16.8399 - val_loss: 55.6348 - val_reconstruction_error: 40.0712 - val_regularization_error: 15.5636
Epoch 827/1000
120/120 [=====] - 21s 174ms/step - loss: 31.9287 - reconstruction_error: 15.1743 - regularization_error: 16.7544 - val_loss: 55.1668 - val_reconstruction_error: 39.5033 - val_regularization_error: 15.6636
Epoch 828/1000
120/120 [=====] - 19s 157ms/step - loss: 31.8496 - reconstruction_error: 15.1085 - regularization_error: 16.7411 - val_loss: 55.9132 - val_reconstruction_error: 41.0976 - val_regularization_error: 14.8156
Epoch 829/1000
120/120 [=====] - 17s 144ms/step - loss: 32.0098 - reconstruction_error: 15.4209 - regularization_error: 16.5889 - val_loss: 55.6162 - val_reconstruction_error: 40.5337 - val_regularization_error: 15.0825
Epoch 830/1000
120/120 [=====] - 17s 145ms/step - loss: 32.2912 - reconstruction_error: 15.5037 - regularization_error: 16.7875 - val_loss: 55.7754 - val_reconstruction_error: 40.2462 - val_regularization_error: 15.5292
Epoch 831/1000
120/120 [=====] - ETA: 0s - loss: 31.9708 - reconstruction_error: 15.3162 - regularization_error: 16.6547
[2023-12-01 19:23:36.867156]: Reconstructing images for epoch 831 ...
```



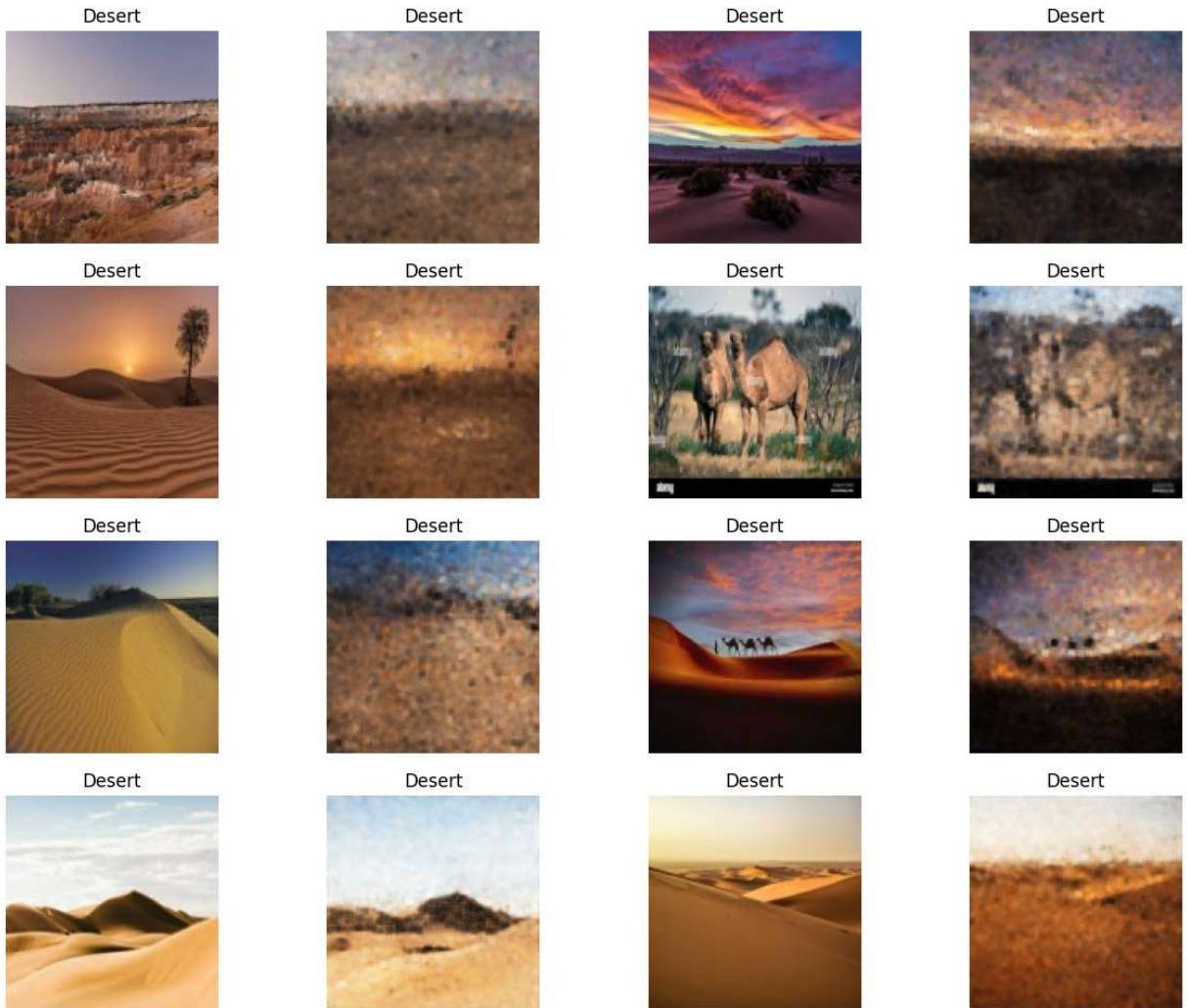
```
120/120 [=====] - 21s 171ms/step - loss: 31.9708 - reconstruction_error: 15.3162 - regularization_error: 16.6547 - val_loss: 57.5403 - val_reconstruction_error: 41.0797 - val_regularization_error: 16.4607
Epoch 832/1000
120/120 [=====] - 17s 138ms/step - loss: 32.0582 - reconstruction_error: 15.2765 - regularization_error: 16.7817 - val_loss: 55.7785 - val_reconstruction_error: 39.4105 - val_regularization_error: 16.3680
Epoch 833/1000
120/120 [=====] - 19s 160ms/step - loss: 31.9941 - reconstruction_error: 15.2758 - regularization_error: 16.7183 - val_loss: 57.0811 - val_reconstruction_error: 40.0759 - val_regularization_error: 17.0052
Epoch 834/1000
120/120 [=====] - 18s 151ms/step - loss: 32.2192 - reconstruction_error: 15.4363 - regularization_error: 16.7829 - val_loss: 56.0103 - val_reconstruction_error: 40.3002 - val_regularization_error: 15.7101
Epoch 835/1000
120/120 [=====] - 20s 164ms/step - loss: 31.9034 - reconstruction_error: 15.2458 - regularization_error: 16.6575 - val_loss: 56.5434 - val_reconstruction_error: 40.4069 - val_regularization_error: 16.1365
Epoch 836/1000
120/120 [=====] - 18s 145ms/step - loss: 32.0482 - reconstruction_error: 15.2651 - regularization_error: 16.7830 - val_loss: 56.1235 - val_reconstruction_error: 41.2940 - val_regularization_error: 14.8295
Epoch 837/1000
120/120 [=====] - 18s 153ms/step - loss: 32.1129 - reconstruction_error: 15.3349 - regularization_error: 16.7780 - val_loss: 56.6119 - val_reconstruction_error: 41.0685 - val_regularization_error: 15.5434
Epoch 838/1000
120/120 [=====] - 19s 158ms/step - loss: 32.1783 - reconstruction_error: 15.3464 - regularization_error: 16.8319 - val_loss: 55.8470 - val_reconstruction_error: 40.0311 - val_regularization_error: 15.8159
Epoch 839/1000
120/120 [=====] - 17s 139ms/step - loss: 31.8610 - reconstruction_error: 15.1979 - regularization_error: 16.6631 - val_loss: 55.7239 - val_reconstruction_error: 40.0642 - val_regularization_error: 15.6597
Epoch 840/1000
120/120 [=====] - 21s 176ms/step - loss: 31.7767 - reconstruction_error: 15.1341 - regularization_error: 16.6426 - val_loss: 56.1236 - val_reconstruction_error: 40.9190 - val_regularization_error: 15.2046
Epoch 841/1000
120/120 [=====] - ETA: 0s - loss: 31.9329 - reconstruction_error: 15.2436 - regularization_error: 16.6893
[2023-12-01 19:26:46.988099]: Reconstructing images for epoch 841 ...
```



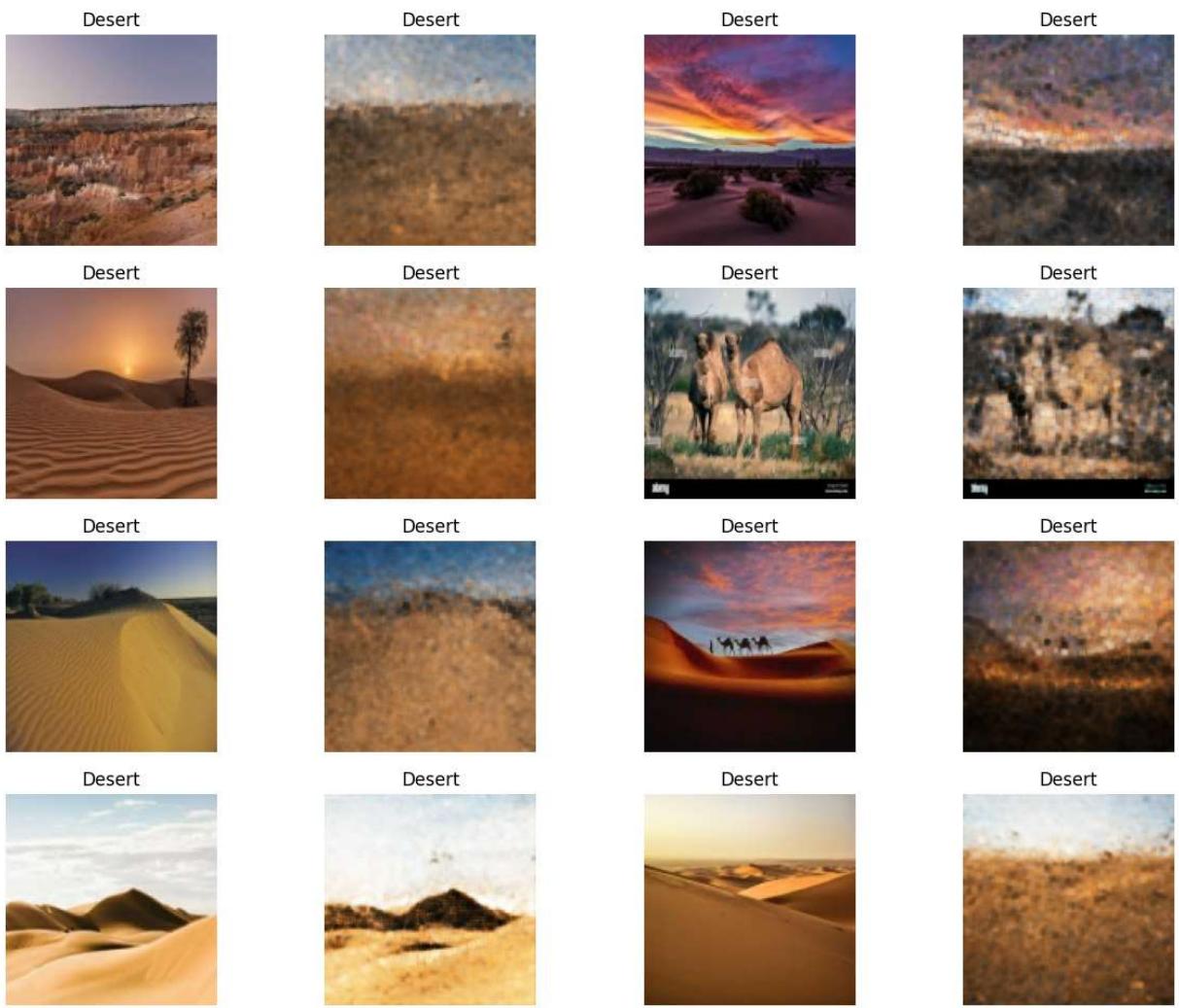
```
120/120 [=====] - 21s 172ms/step - loss: 31.9329 - reconstruction_error: 15.2436 - regularization_error: 16.6893 - val_loss: 55.5736 - val_reconstruction_error: 40.4977 - val_regularization_error: 15.0759
Epoch 842/1000
120/120 [=====] - 17s 141ms/step - loss: 32.1320 - reconstruction_error: 15.2673 - regularization_error: 16.8648 - val_loss: 55.4271 - val_reconstruction_error: 40.4610 - val_regularization_error: 14.9662
Epoch 843/1000
120/120 [=====] - 18s 150ms/step - loss: 32.1501 - reconstruction_error: 15.2857 - regularization_error: 16.8645 - val_loss: 56.7008 - val_reconstruction_error: 41.3811 - val_regularization_error: 15.3197
Epoch 844/1000
120/120 [=====] - 19s 155ms/step - loss: 31.8524 - reconstruction_error: 15.1978 - regularization_error: 16.6546 - val_loss: 56.3174 - val_reconstruction_error: 40.3242 - val_regularization_error: 15.9932
Epoch 845/1000
120/120 [=====] - 17s 138ms/step - loss: 31.8893 - reconstruction_error: 15.1853 - regularization_error: 16.7040 - val_loss: 55.8789 - val_reconstruction_error: 40.4546 - val_regularization_error: 15.4243
Epoch 846/1000
120/120 [=====] - 22s 179ms/step - loss: 31.8372 - reconstruction_error: 15.1891 - regularization_error: 16.6480 - val_loss: 56.6375 - val_reconstruction_error: 41.0290 - val_regularization_error: 15.6085
Epoch 847/1000
120/120 [=====] - 18s 149ms/step - loss: 31.8120 - reconstruction_error: 15.1695 - regularization_error: 16.6425 - val_loss: 56.0583 - val_reconstruction_error: 39.7080 - val_regularization_error: 16.3503
Epoch 848/1000
120/120 [=====] - 19s 160ms/step - loss: 31.9096 - reconstruction_error: 15.1843 - regularization_error: 16.7253 - val_loss: 55.9494 - val_reconstruction_error: 40.5881 - val_regularization_error: 15.3613
Epoch 849/1000
120/120 [=====] - 22s 181ms/step - loss: 31.8712 - reconstruction_error: 15.1815 - regularization_error: 16.6897 - val_loss: 55.4346 - val_reconstruction_error: 40.2073 - val_regularization_error: 15.2273
Epoch 850/1000
120/120 [=====] - 18s 149ms/step - loss: 31.9074 - reconstruction_error: 15.1889 - regularization_error: 16.7185 - val_loss: 55.8909 - val_reconstruction_error: 40.9526 - val_regularization_error: 14.9383
Epoch 851/1000
120/120 [=====] - ETA: 0s - loss: 31.9985 - reconstruction_error: 15.2102 - regularization_error: 16.7883
[2023-12-01 19:30:02.163325]: Reconstructing images for epoch 851 ...
```



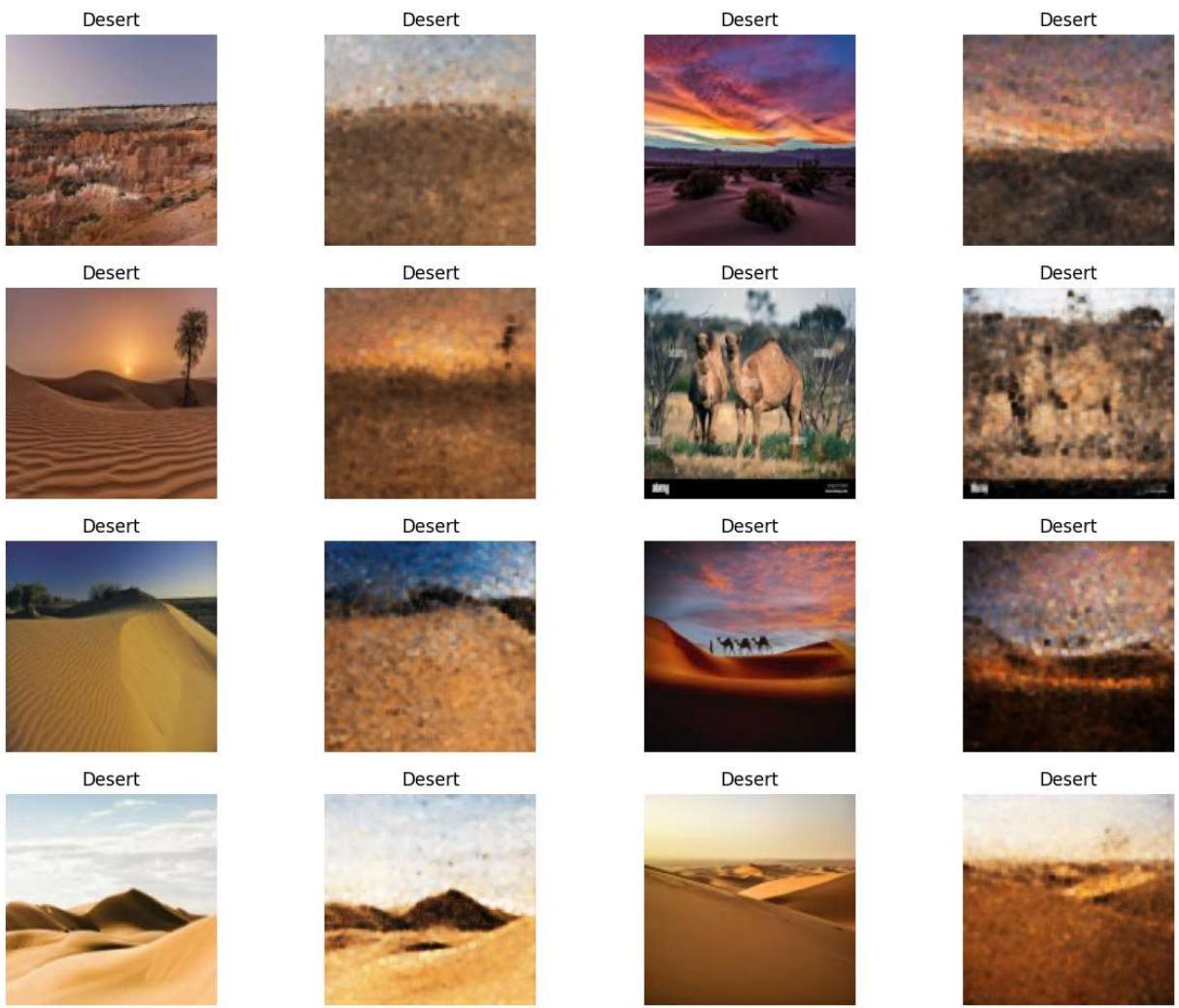
```
120/120 [=====] - 26s 215ms/step - loss: 31.9985 - reconstruction_error: 15.2102 - regularization_error: 16.7883 - val_loss: 56.5632 - val_reconstruction_error: 40.7048 - val_regularization_error: 15.8583
Epoch 852/1000
120/120 [=====] - 16s 137ms/step - loss: 31.8448 - reconstruction_error: 15.1285 - regularization_error: 16.7163 - val_loss: 56.8483 - val_reconstruction_error: 39.9745 - val_regularization_error: 16.8737
Epoch 853/1000
120/120 [=====] - 20s 166ms/step - loss: 31.9017 - reconstruction_error: 15.2176 - regularization_error: 16.6840 - val_loss: 56.0087 - val_reconstruction_error: 39.6653 - val_regularization_error: 16.3434
Epoch 854/1000
120/120 [=====] - 18s 144ms/step - loss: 31.7806 - reconstruction_error: 15.0763 - regularization_error: 16.7043 - val_loss: 56.9463 - val_reconstruction_error: 40.3629 - val_regularization_error: 16.5834
Epoch 855/1000
120/120 [=====] - 19s 154ms/step - loss: 31.7188 - reconstruction_error: 15.0222 - regularization_error: 16.6965 - val_loss: 55.3401 - val_reconstruction_error: 40.3793 - val_regularization_error: 14.9608
Epoch 856/1000
120/120 [=====] - 20s 165ms/step - loss: 31.8383 - reconstruction_error: 15.0774 - regularization_error: 16.7609 - val_loss: 56.8585 - val_reconstruction_error: 41.0643 - val_regularization_error: 15.7942
Epoch 857/1000
120/120 [=====] - 18s 146ms/step - loss: 31.7925 - reconstruction_error: 15.1536 - regularization_error: 16.6389 - val_loss: 55.9526 - val_reconstruction_error: 39.9264 - val_regularization_error: 16.0262
Epoch 858/1000
120/120 [=====] - 22s 186ms/step - loss: 32.0167 - reconstruction_error: 15.2641 - regularization_error: 16.7526 - val_loss: 55.9779 - val_reconstruction_error: 39.6214 - val_regularization_error: 16.3565
Epoch 859/1000
120/120 [=====] - 18s 152ms/step - loss: 31.7916 - reconstruction_error: 15.2277 - regularization_error: 16.5640 - val_loss: 57.1030 - val_reconstruction_error: 41.5249 - val_regularization_error: 15.5781
Epoch 860/1000
120/120 [=====] - 19s 158ms/step - loss: 31.8967 - reconstruction_error: 15.1314 - regularization_error: 16.7653 - val_loss: 56.1611 - val_reconstruction_error: 41.3800 - val_regularization_error: 14.7810
Epoch 861/1000
120/120 [=====] - ETA: 0s - loss: 31.8163 - reconstruction_error: 15.1304 - regularization_error: 16.6859
[2023-12-01 19:33:19.687357]: Reconstructing images for epoch 861 ...
```



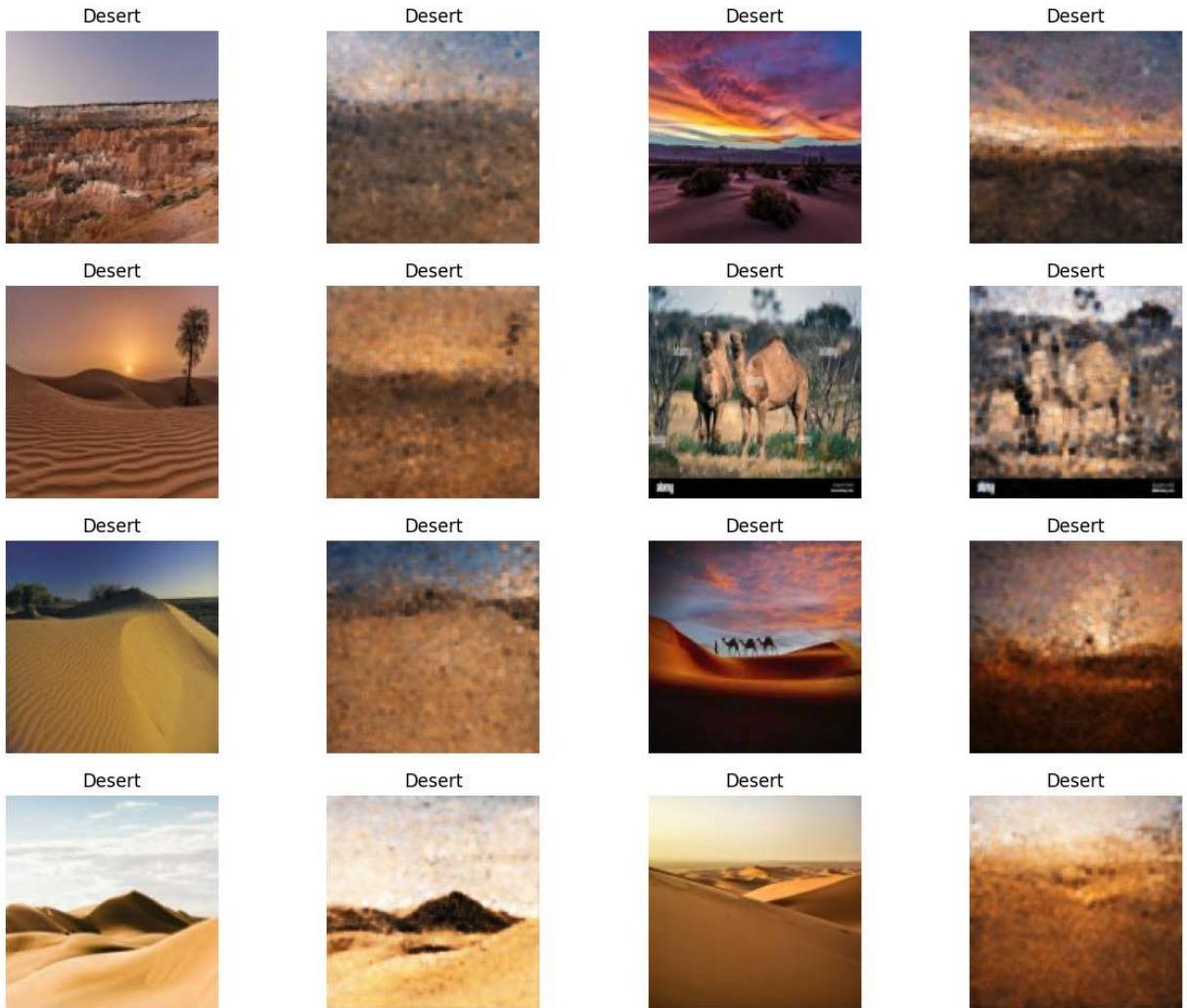
```
120/120 [=====] - 25s 206ms/step - loss: 31.8163 - reconstruction_error: 15.1304 - regularization_error: 16.6859 - val_loss: 55.7478 - val_reconstruction_error: 40.8112 - val_regularization_error: 14.9366
Epoch 862/1000
120/120 [=====] - 19s 157ms/step - loss: 32.1815 - reconstruction_error: 15.3540 - regularization_error: 16.8275 - val_loss: 56.2466 - val_reconstruction_error: 41.3761 - val_regularization_error: 14.8705
Epoch 863/1000
120/120 [=====] - 18s 150ms/step - loss: 31.7136 - reconstruction_error: 15.1420 - regularization_error: 16.5716 - val_loss: 55.6432 - val_reconstruction_error: 40.8027 - val_regularization_error: 14.8404
Epoch 864/1000
120/120 [=====] - 20s 163ms/step - loss: 32.0335 - reconstruction_error: 15.2009 - regularization_error: 16.8326 - val_loss: 55.9338 - val_reconstruction_error: 40.6477 - val_regularization_error: 15.2861
Epoch 865/1000
120/120 [=====] - 21s 169ms/step - loss: 31.7988 - reconstruction_error: 15.0568 - regularization_error: 16.7420 - val_loss: 56.6477 - val_reconstruction_error: 41.3759 - val_regularization_error: 15.2718
Epoch 866/1000
120/120 [=====] - 19s 156ms/step - loss: 31.9337 - reconstruction_error: 15.1112 - regularization_error: 16.8225 - val_loss: 55.6661 - val_reconstruction_error: 40.7621 - val_regularization_error: 14.9040
Epoch 867/1000
120/120 [=====] - 22s 187ms/step - loss: 31.9718 - reconstruction_error: 15.2548 - regularization_error: 16.7170 - val_loss: 55.7969 - val_reconstruction_error: 39.7751 - val_regularization_error: 16.0218
Epoch 868/1000
120/120 [=====] - 18s 150ms/step - loss: 31.8002 - reconstruction_error: 15.0500 - regularization_error: 16.7502 - val_loss: 56.8217 - val_reconstruction_error: 42.2371 - val_regularization_error: 14.5846
Epoch 869/1000
120/120 [=====] - 19s 160ms/step - loss: 31.9419 - reconstruction_error: 15.1275 - regularization_error: 16.8143 - val_loss: 55.5313 - val_reconstruction_error: 39.9048 - val_regularization_error: 15.6265
Epoch 870/1000
120/120 [=====] - 19s 157ms/step - loss: 31.8537 - reconstruction_error: 15.1514 - regularization_error: 16.7023 - val_loss: 56.8209 - val_reconstruction_error: 41.9615 - val_regularization_error: 14.8594
Epoch 871/1000
120/120 [=====] - ETA: 0s - loss: 31.8091 - reconstruction_error: 15.1680 - regularization_error: 16.6411
[2023-12-01 19:36:38.265085]: Reconstructing images for epoch 871 ...
```



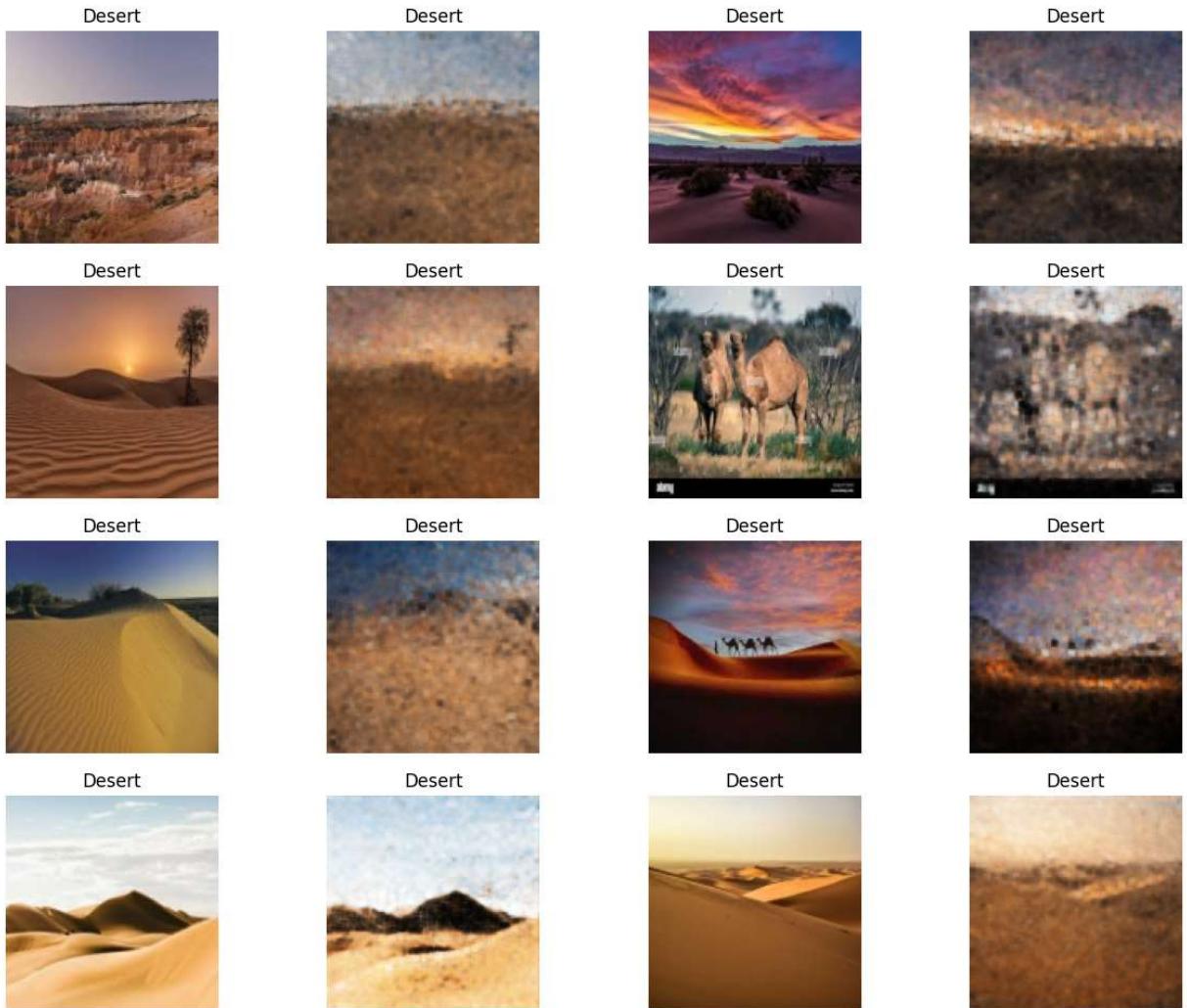
```
120/120 [=====] - 22s 183ms/step - loss: 31.8091 - reconstruction_error: 15.1680 - regularization_error: 16.6411 - val_loss: 56.6086 - val_reconstruction_error: 40.8445 - val_regularization_error: 15.7641
Epoch 872/1000
120/120 [=====] - 24s 199ms/step - loss: 31.6704 - reconstruction_error: 15.1379 - regularization_error: 16.5325 - val_loss: 56.5714 - val_reconstruction_error: 41.2773 - val_regularization_error: 15.2941
Epoch 873/1000
120/120 [=====] - 21s 178ms/step - loss: 31.7997 - reconstruction_error: 15.1085 - regularization_error: 16.6912 - val_loss: 56.0412 - val_reconstruction_error: 39.8468 - val_regularization_error: 16.1944
Epoch 874/1000
120/120 [=====] - 23s 193ms/step - loss: 31.8252 - reconstruction_error: 15.1522 - regularization_error: 16.6730 - val_loss: 57.7858 - val_reconstruction_error: 41.7772 - val_regularization_error: 16.0086
Epoch 875/1000
120/120 [=====] - 20s 164ms/step - loss: 31.9468 - reconstruction_error: 15.1308 - regularization_error: 16.8159 - val_loss: 56.3086 - val_reconstruction_error: 41.1834 - val_regularization_error: 15.1252
Epoch 876/1000
120/120 [=====] - 21s 175ms/step - loss: 31.9412 - reconstruction_error: 15.2002 - regularization_error: 16.7410 - val_loss: 55.9116 - val_reconstruction_error: 39.7734 - val_regularization_error: 16.1382
Epoch 877/1000
120/120 [=====] - 20s 168ms/step - loss: 31.8099 - reconstruction_error: 15.0019 - regularization_error: 16.8080 - val_loss: 56.4056 - val_reconstruction_error: 41.4732 - val_regularization_error: 14.9323
Epoch 878/1000
120/120 [=====] - 20s 166ms/step - loss: 31.9878 - reconstruction_error: 15.1189 - regularization_error: 16.8689 - val_loss: 56.1392 - val_reconstruction_error: 40.7091 - val_regularization_error: 15.4301
Epoch 879/1000
120/120 [=====] - 20s 168ms/step - loss: 31.7829 - reconstruction_error: 15.0503 - regularization_error: 16.7326 - val_loss: 56.3352 - val_reconstruction_error: 40.5434 - val_regularization_error: 15.7918
Epoch 880/1000
120/120 [=====] - 18s 149ms/step - loss: 31.7199 - reconstruction_error: 14.9877 - regularization_error: 16.7322 - val_loss: 55.7552 - val_reconstruction_error: 40.2194 - val_regularization_error: 15.5359
Epoch 881/1000
120/120 [=====] - ETA: 0s - loss: 31.6321 - reconstruction_error: 15.0160 - regularization_error: 16.6161
[2023-12-01 19:40:08.345599]: Reconstructing images for epoch 881 ...
```



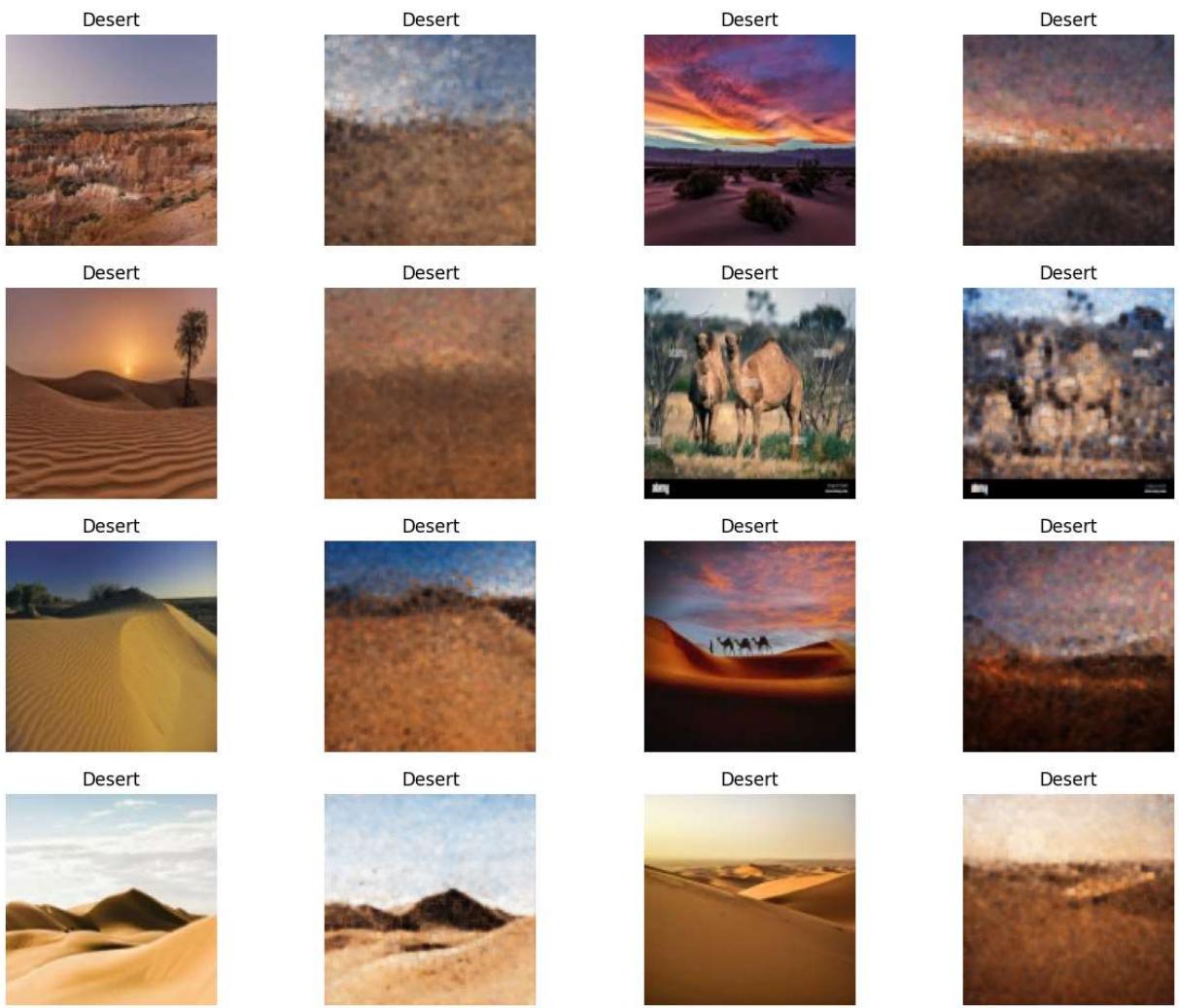
```
120/120 [=====] - 21s 177ms/step - loss: 31.6321 - reconstruction_error: 15.0160 - regularization_error: 16.6161 - val_loss: 57.6624 - val_reconstruction_error: 40.6299 - val_regularization_error: 17.0325
Epoch 882/1000
120/120 [=====] - 19s 159ms/step - loss: 31.8228 - reconstruction_error: 15.1203 - regularization_error: 16.7025 - val_loss: 55.8595 - val_reconstruction_error: 41.1109 - val_regularization_error: 14.7486
Epoch 883/1000
120/120 [=====] - 19s 157ms/step - loss: 31.7937 - reconstruction_error: 15.0515 - regularization_error: 16.7422 - val_loss: 56.1824 - val_reconstruction_error: 40.5163 - val_regularization_error: 15.6661
Epoch 884/1000
120/120 [=====] - 19s 161ms/step - loss: 31.9295 - reconstruction_error: 15.1387 - regularization_error: 16.7908 - val_loss: 56.1944 - val_reconstruction_error: 40.8580 - val_regularization_error: 15.3364
Epoch 885/1000
120/120 [=====] - 18s 148ms/step - loss: 31.6683 - reconstruction_error: 15.0529 - regularization_error: 16.6154 - val_loss: 56.4672 - val_reconstruction_error: 41.1410 - val_regularization_error: 15.3262
Epoch 886/1000
120/120 [=====] - 20s 164ms/step - loss: 31.8481 - reconstruction_error: 15.0748 - regularization_error: 16.7733 - val_loss: 55.5095 - val_reconstruction_error: 40.3791 - val_regularization_error: 15.1304
Epoch 887/1000
120/120 [=====] - 18s 145ms/step - loss: 31.8050 - reconstruction_error: 14.9957 - regularization_error: 16.8094 - val_loss: 55.7055 - val_reconstruction_error: 40.9279 - val_regularization_error: 14.7776
Epoch 888/1000
120/120 [=====] - 19s 158ms/step - loss: 31.8977 - reconstruction_error: 15.1363 - regularization_error: 16.7614 - val_loss: 55.8548 - val_reconstruction_error: 40.9451 - val_regularization_error: 14.9096
Epoch 889/1000
120/120 [=====] - 16s 137ms/step - loss: 31.7546 - reconstruction_error: 15.0607 - regularization_error: 16.6938 - val_loss: 55.9558 - val_reconstruction_error: 39.8086 - val_regularization_error: 16.1472
Epoch 890/1000
120/120 [=====] - 20s 162ms/step - loss: 31.6602 - reconstruction_error: 14.9727 - regularization_error: 16.6876 - val_loss: 56.3986 - val_reconstruction_error: 41.0942 - val_regularization_error: 15.3044
Epoch 891/1000
120/120 [=====] - ETA: 0s - loss: 31.6461 - reconstruction_error: 15.0143 - regularization_error: 16.6317
[2023-12-01 19:43:18.890276]: Reconstructing images for epoch 891 ...
```



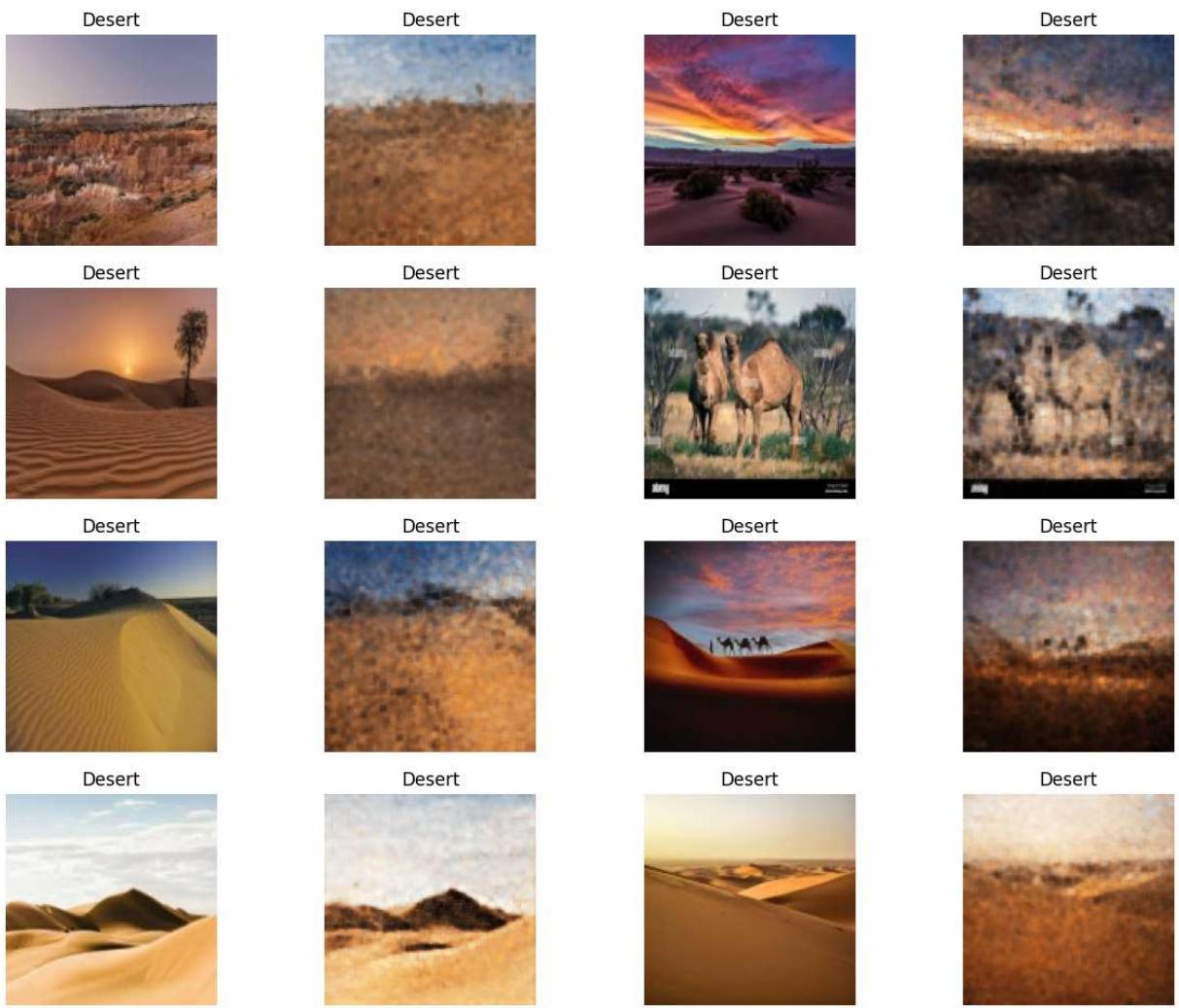
```
120/120 [=====] - 21s 175ms/step - loss: 31.6461 - reconstruction_error: 15.0143 - regularization_error: 16.6317 - val_loss: 56.4919 - val_reconstruction_error: 39.8993 - val_regularization_error: 16.5926
Epoch 892/1000
120/120 [=====] - 19s 161ms/step - loss: 31.7061 - reconstruction_error: 14.9920 - regularization_error: 16.7141 - val_loss: 56.5883 - val_reconstruction_error: 40.4051 - val_regularization_error: 16.1832
Epoch 893/1000
120/120 [=====] - 18s 145ms/step - loss: 31.8731 - reconstruction_error: 15.1009 - regularization_error: 16.7722 - val_loss: 55.3651 - val_reconstruction_error: 40.3467 - val_regularization_error: 15.0184
Epoch 894/1000
120/120 [=====] - 18s 151ms/step - loss: 31.8695 - reconstruction_error: 15.0580 - regularization_error: 16.8115 - val_loss: 56.5836 - val_reconstruction_error: 40.2867 - val_regularization_error: 16.2969
Epoch 895/1000
120/120 [=====] - 19s 155ms/step - loss: 31.8920 - reconstruction_error: 15.1419 - regularization_error: 16.7500 - val_loss: 56.2781 - val_reconstruction_error: 41.0134 - val_regularization_error: 15.2647
Epoch 896/1000
120/120 [=====] - 18s 147ms/step - loss: 31.6711 - reconstruction_error: 14.9835 - regularization_error: 16.6876 - val_loss: 55.9189 - val_reconstruction_error: 40.7243 - val_regularization_error: 15.1946
Epoch 897/1000
120/120 [=====] - 18s 150ms/step - loss: 31.5601 - reconstruction_error: 14.8767 - regularization_error: 16.6834 - val_loss: 56.4910 - val_reconstruction_error: 40.9682 - val_regularization_error: 15.5228
Epoch 898/1000
120/120 [=====] - 20s 157ms/step - loss: 31.5741 - reconstruction_error: 14.9037 - regularization_error: 16.6703 - val_loss: 55.8214 - val_reconstruction_error: 41.1548 - val_regularization_error: 14.6666
Epoch 899/1000
120/120 [=====] - 17s 142ms/step - loss: 31.6217 - reconstruction_error: 14.9250 - regularization_error: 16.6967 - val_loss: 56.2332 - val_reconstruction_error: 42.0998 - val_regularization_error: 14.1334
Epoch 900/1000
120/120 [=====] - 19s 160ms/step - loss: 31.7755 - reconstruction_error: 15.0722 - regularization_error: 16.7034 - val_loss: 56.4394 - val_reconstruction_error: 41.1354 - val_regularization_error: 15.3040
Epoch 901/1000
120/120 [=====] - ETA: 0s - loss: 31.8420 - reconstruction_error: 15.1299 - regularization_error: 16.7121
[2023-12-01 19:46:28.375129]: Reconstructing images for epoch 901 ...
```



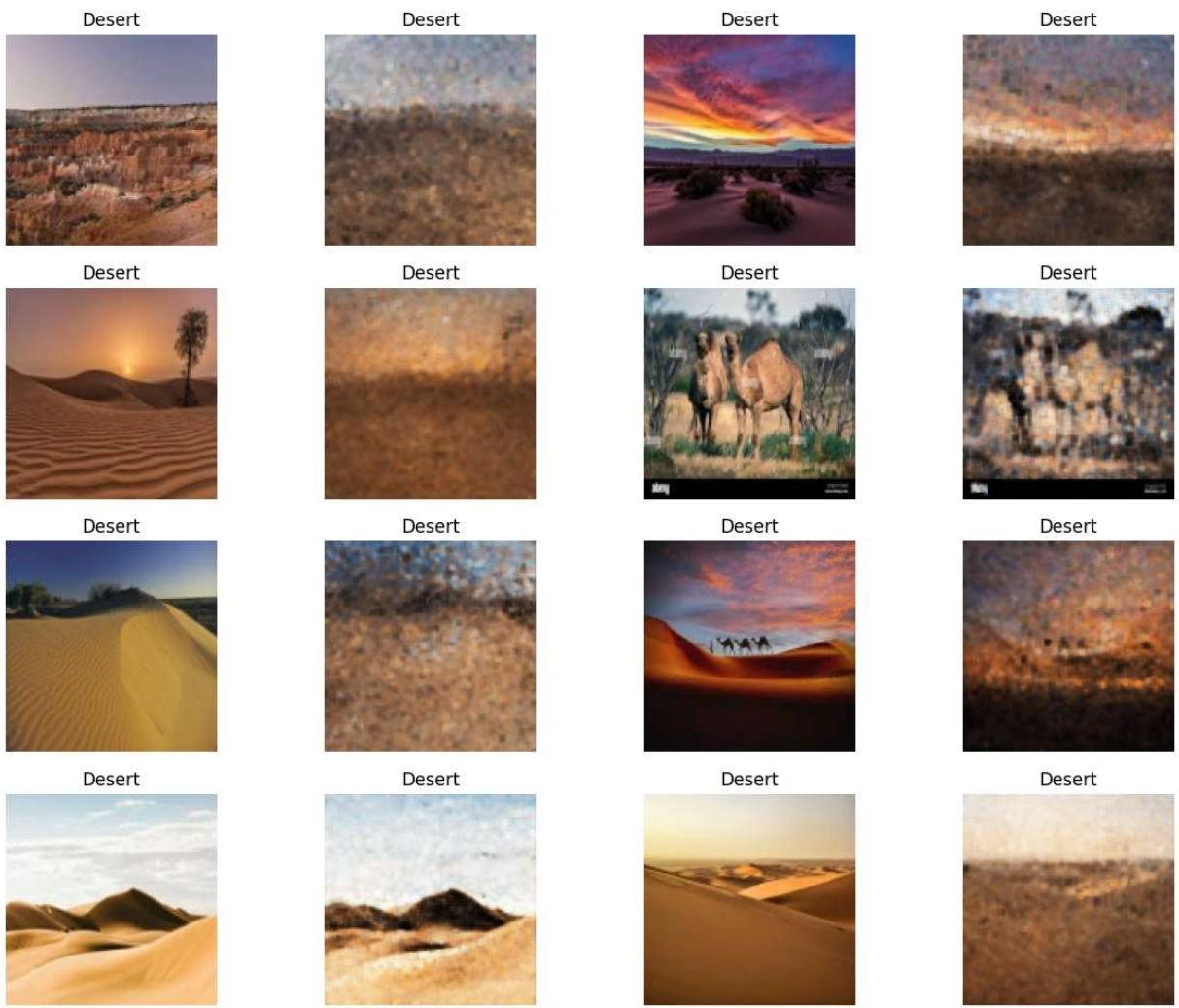
```
120/120 [=====] - 22s 182ms/step - loss: 31.8420 - reconstruction_error: 15.1299 - regularization_error: 16.7121 - val_loss: 55.9856 - val_reconstruction_error: 40.4336 - val_regularization_error: 15.5521
Epoch 902/1000
120/120 [=====] - 22s 180ms/step - loss: 31.7933 - reconstruction_error: 15.0680 - regularization_error: 16.7252 - val_loss: 56.0102 - val_reconstruction_error: 41.3296 - val_regularization_error: 14.6806
Epoch 903/1000
120/120 [=====] - 18s 146ms/step - loss: 31.5356 - reconstruction_error: 14.8892 - regularization_error: 16.6464 - val_loss: 55.5797 - val_reconstruction_error: 40.0631 - val_regularization_error: 15.5166
Epoch 904/1000
120/120 [=====] - 16s 133ms/step - loss: 31.4815 - reconstruction_error: 14.7942 - regularization_error: 16.6873 - val_loss: 56.8858 - val_reconstruction_error: 41.4668 - val_regularization_error: 15.4190
Epoch 905/1000
120/120 [=====] - 17s 139ms/step - loss: 31.5674 - reconstruction_error: 14.8504 - regularization_error: 16.7171 - val_loss: 56.0971 - val_reconstruction_error: 41.1415 - val_regularization_error: 14.9556
Epoch 906/1000
120/120 [=====] - 19s 160ms/step - loss: 31.5967 - reconstruction_error: 14.9636 - regularization_error: 16.6332 - val_loss: 56.2286 - val_reconstruction_error: 40.4541 - val_regularization_error: 15.7745
Epoch 907/1000
120/120 [=====] - 20s 168ms/step - loss: 31.8898 - reconstruction_error: 15.1719 - regularization_error: 16.7178 - val_loss: 56.4977 - val_reconstruction_error: 41.1792 - val_regularization_error: 15.3184
Epoch 908/1000
120/120 [=====] - 19s 160ms/step - loss: 31.9553 - reconstruction_error: 15.1227 - regularization_error: 16.8326 - val_loss: 55.8736 - val_reconstruction_error: 41.1003 - val_regularization_error: 14.7733
Epoch 909/1000
120/120 [=====] - 21s 175ms/step - loss: 31.8141 - reconstruction_error: 15.0453 - regularization_error: 16.7688 - val_loss: 56.1918 - val_reconstruction_error: 41.1468 - val_regularization_error: 15.0451
Epoch 910/1000
120/120 [=====] - 17s 144ms/step - loss: 31.5990 - reconstruction_error: 14.9788 - regularization_error: 16.6202 - val_loss: 56.3199 - val_reconstruction_error: 41.4397 - val_regularization_error: 14.8802
Epoch 911/1000
120/120 [=====] - ETA: 0s - loss: 31.7089 - reconstruction_error: 14.9347 - regularization_error: 16.7741
[2023-12-01 19:49:39.707131]: Reconstructing images for epoch 911 ...
```



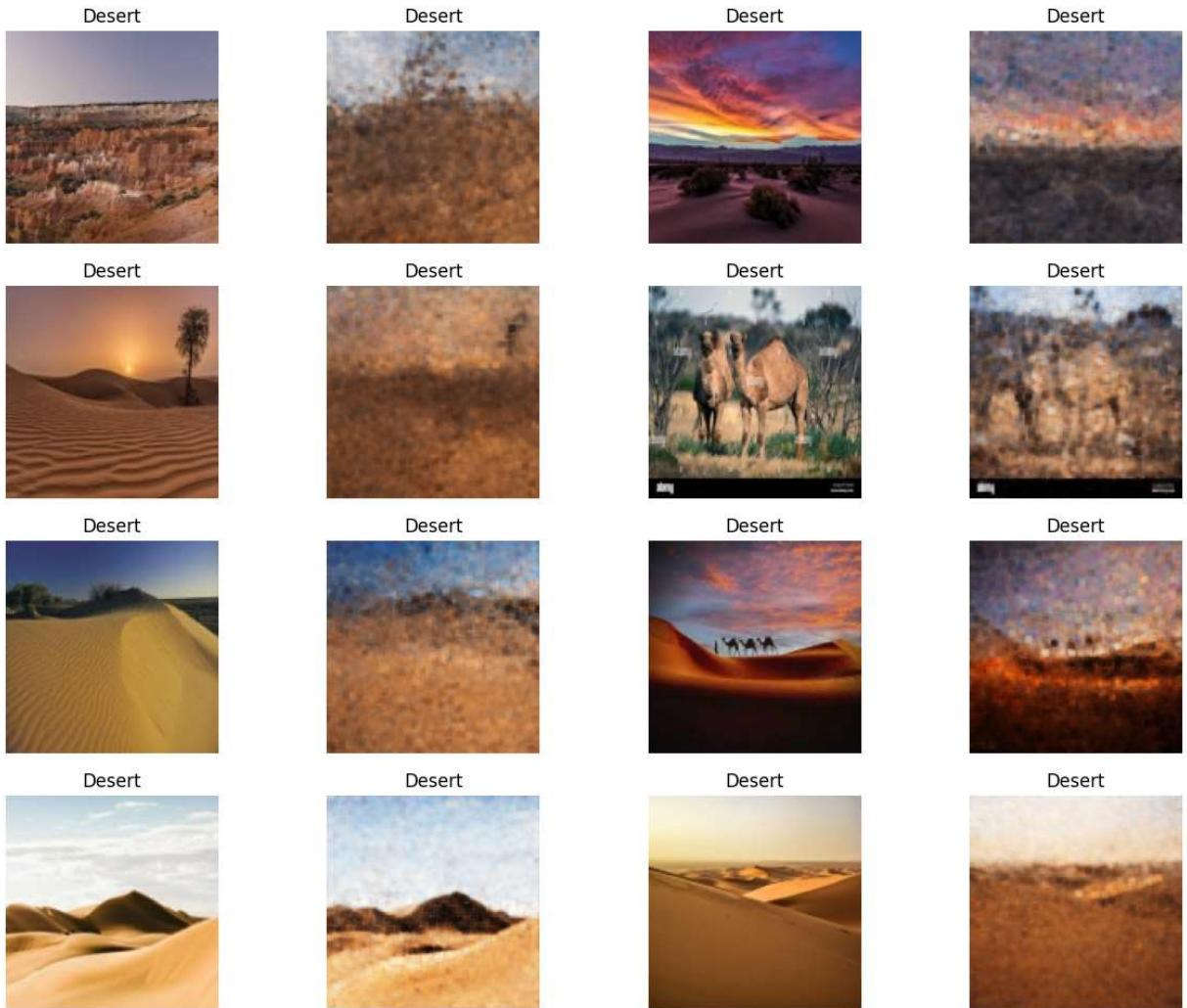
```
120/120 [=====] - 20s 164ms/step - loss: 31.7089 - reconstruction_error: 14.9347 - regularization_error: 16.7741 - val_loss: 56.6837 - val_reconstruction_error: 41.2086 - val_regularization_error: 15.4751
Epoch 912/1000
120/120 [=====] - 17s 141ms/step - loss: 31.6122 - reconstruction_error: 14.9695 - regularization_error: 16.6427 - val_loss: 55.7307 - val_reconstruction_error: 40.8243 - val_regularization_error: 14.9063
Epoch 913/1000
120/120 [=====] - 16s 129ms/step - loss: 31.7190 - reconstruction_error: 15.0717 - regularization_error: 16.6473 - val_loss: 55.7559 - val_reconstruction_error: 40.8884 - val_regularization_error: 14.8676
Epoch 914/1000
120/120 [=====] - 19s 153ms/step - loss: 31.7589 - reconstruction_error: 15.0343 - regularization_error: 16.7246 - val_loss: 56.4185 - val_reconstruction_error: 40.8534 - val_regularization_error: 15.5651
Epoch 915/1000
120/120 [=====] - 16s 131ms/step - loss: 31.6543 - reconstruction_error: 14.8174 - regularization_error: 16.8369 - val_loss: 56.8081 - val_reconstruction_error: 40.3686 - val_regularization_error: 16.4395
Epoch 916/1000
120/120 [=====] - 22s 180ms/step - loss: 31.8183 - reconstruction_error: 15.0271 - regularization_error: 16.7913 - val_loss: 56.6043 - val_reconstruction_error: 40.8817 - val_regularization_error: 15.7226
Epoch 917/1000
120/120 [=====] - 20s 161ms/step - loss: 31.6818 - reconstruction_error: 14.8803 - regularization_error: 16.8015 - val_loss: 57.0179 - val_reconstruction_error: 40.5596 - val_regularization_error: 16.4583
Epoch 918/1000
120/120 [=====] - 22s 180ms/step - loss: 31.6382 - reconstruction_error: 14.9538 - regularization_error: 16.6844 - val_loss: 56.9653 - val_reconstruction_error: 41.3759 - val_regularization_error: 15.5894
Epoch 919/1000
120/120 [=====] - 17s 140ms/step - loss: 31.7126 - reconstruction_error: 14.9942 - regularization_error: 16.7184 - val_loss: 55.9252 - val_reconstruction_error: 40.0776 - val_regularization_error: 15.8477
Epoch 920/1000
120/120 [=====] - 17s 144ms/step - loss: 31.7216 - reconstruction_error: 14.9702 - regularization_error: 16.7515 - val_loss: 56.0329 - val_reconstruction_error: 40.5412 - val_regularization_error: 15.4917
Epoch 921/1000
120/120 [=====] - ETA: 0s - loss: 31.4411 - reconstruction_error: 14.7836 - regularization_error: 16.6575
[2023-12-01 19:52:48.161907]: Reconstructing images for epoch 921 ...
```



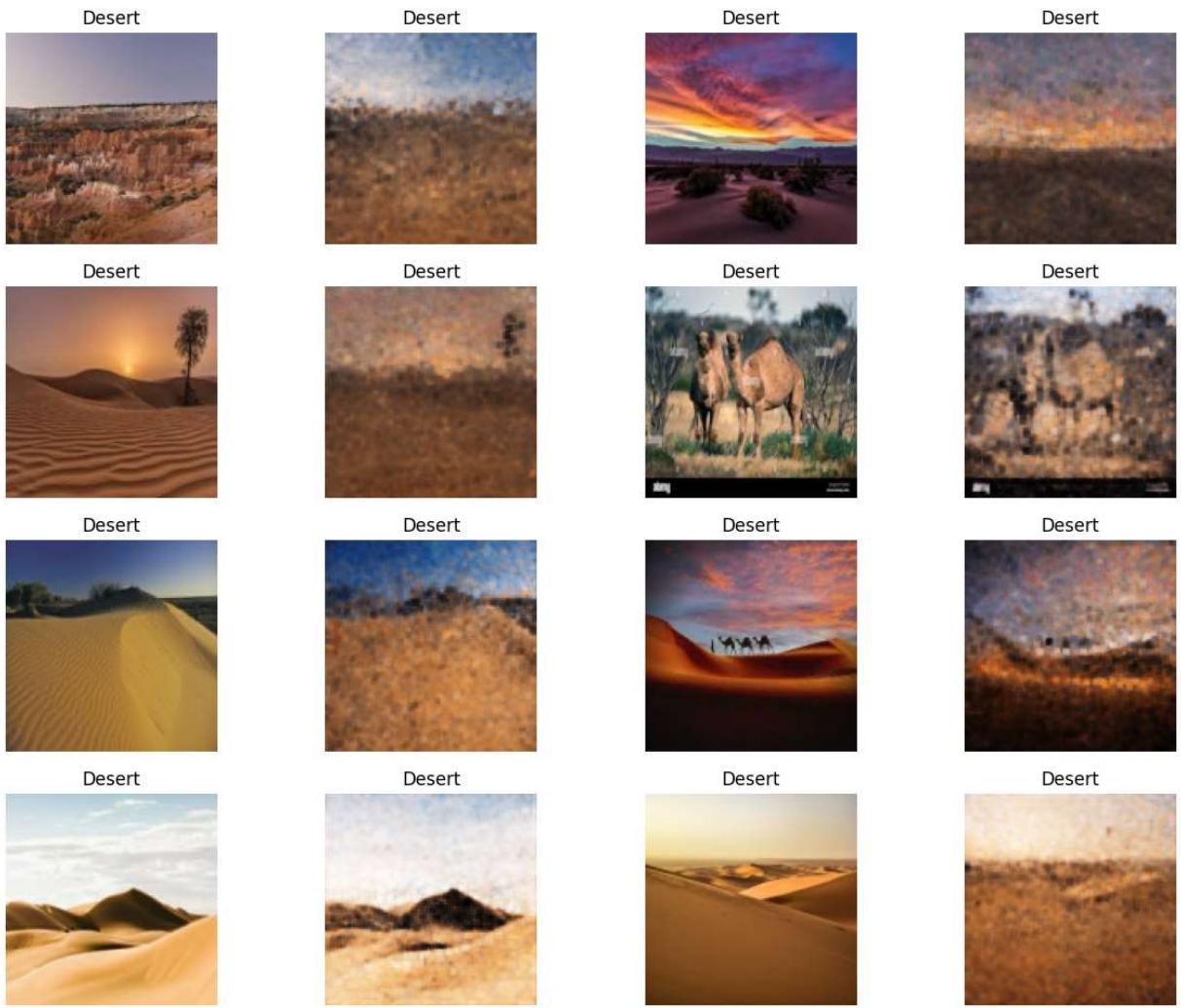
```
120/120 [=====] - 24s 199ms/step - loss: 31.4411 - reconstruction_error: 14.7836 - regularization_error: 16.6575 - val_loss: 56.3436 - val_reconstruction_error: 41.1548 - val_regularization_error: 15.1888
Epoch 922/1000
120/120 [=====] - 19s 157ms/step - loss: 31.6162 - reconstruction_error: 14.9326 - regularization_error: 16.6835 - val_loss: 55.6792 - val_reconstruction_error: 40.6995 - val_regularization_error: 14.9797
Epoch 923/1000
120/120 [=====] - 19s 159ms/step - loss: 31.7404 - reconstruction_error: 14.9178 - regularization_error: 16.8226 - val_loss: 57.5116 - val_reconstruction_error: 40.3876 - val_regularization_error: 17.1240
Epoch 924/1000
120/120 [=====] - 20s 164ms/step - loss: 31.6660 - reconstruction_error: 14.9035 - regularization_error: 16.7625 - val_loss: 55.7825 - val_reconstruction_error: 40.3691 - val_regularization_error: 15.4134
Epoch 925/1000
120/120 [=====] - 22s 180ms/step - loss: 31.5686 - reconstruction_error: 14.9011 - regularization_error: 16.6675 - val_loss: 56.6846 - val_reconstruction_error: 40.2261 - val_regularization_error: 16.4585
Epoch 926/1000
120/120 [=====] - 19s 156ms/step - loss: 31.5752 - reconstruction_error: 14.8438 - regularization_error: 16.7313 - val_loss: 56.3506 - val_reconstruction_error: 41.0290 - val_regularization_error: 15.3216
Epoch 927/1000
120/120 [=====] - 20s 162ms/step - loss: 31.5277 - reconstruction_error: 14.8514 - regularization_error: 16.6763 - val_loss: 56.8172 - val_reconstruction_error: 40.4713 - val_regularization_error: 16.3460
Epoch 928/1000
120/120 [=====] - 19s 155ms/step - loss: 31.5592 - reconstruction_error: 14.8391 - regularization_error: 16.7201 - val_loss: 56.9310 - val_reconstruction_error: 40.7397 - val_regularization_error: 16.1913
Epoch 929/1000
120/120 [=====] - 19s 161ms/step - loss: 31.5434 - reconstruction_error: 14.8850 - regularization_error: 16.6584 - val_loss: 57.0087 - val_reconstruction_error: 41.3162 - val_regularization_error: 15.6925
Epoch 930/1000
120/120 [=====] - 23s 188ms/step - loss: 31.7581 - reconstruction_error: 15.0351 - regularization_error: 16.7230 - val_loss: 57.3107 - val_reconstruction_error: 40.7799 - val_regularization_error: 16.5309
Epoch 931/1000
120/120 [=====] - ETA: 0s - loss: 31.8507 - reconstruction_error: 15.0705 - regularization_error: 16.7802
[2023-12-01 19:56:30.355053]: Reconstructing images for epoch 931 ...
```



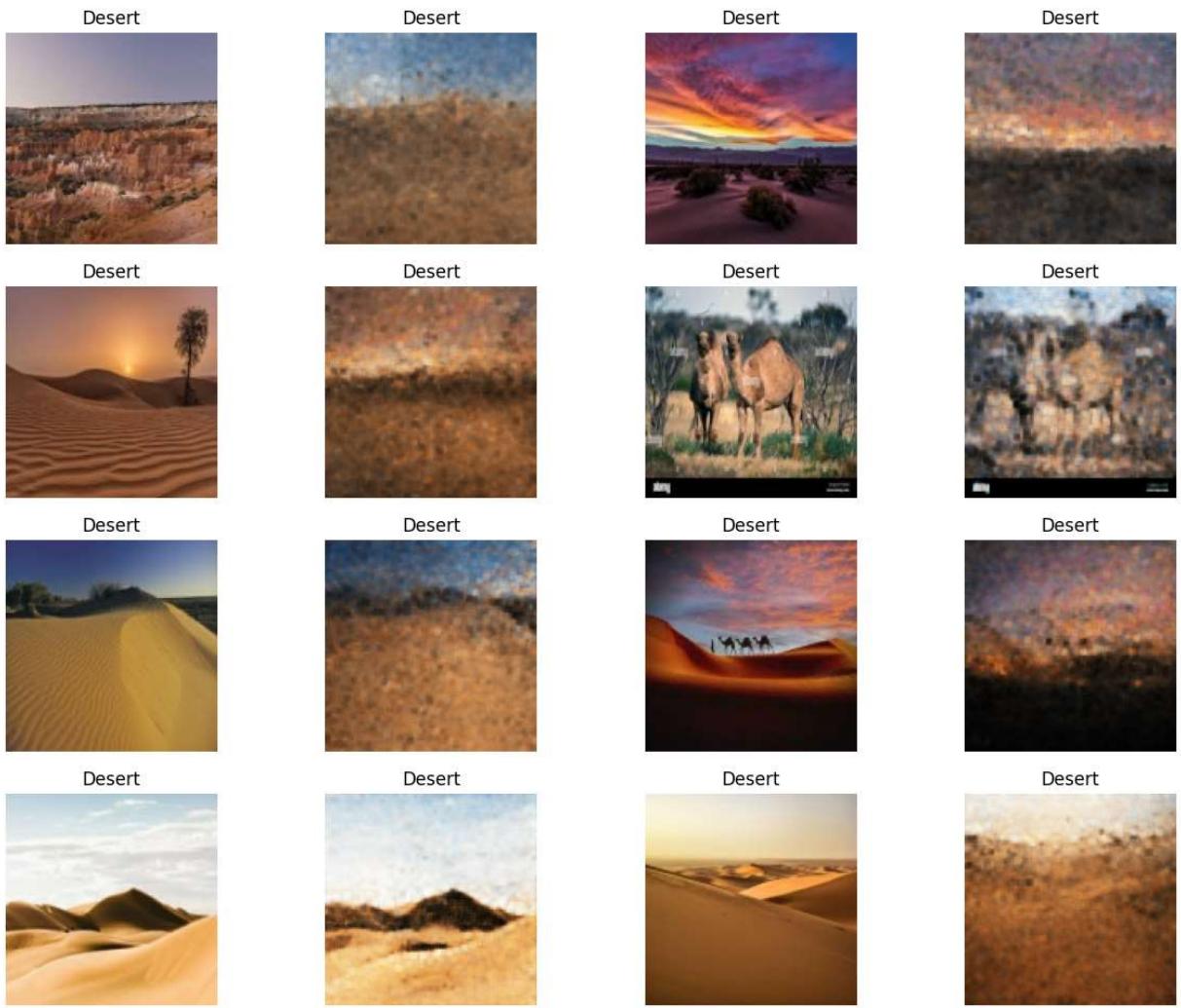
```
120/120 [=====] - 22s 177ms/step - loss: 31.8507 - reconstruction_error: 15.0705 - regularization_error: 16.7802 - val_loss: 56.3443 - val_reconstruction_error: 40.8011 - val_regularization_error: 15.5432
Epoch 932/1000
120/120 [=====] - 20s 163ms/step - loss: 31.6568 - reconstruction_error: 14.8804 - regularization_error: 16.7764 - val_loss: 55.8269 - val_reconstruction_error: 40.1663 - val_regularization_error: 15.6606
Epoch 933/1000
120/120 [=====] - 20s 163ms/step - loss: 31.5734 - reconstruction_error: 14.8667 - regularization_error: 16.7068 - val_loss: 56.3128 - val_reconstruction_error: 41.2726 - val_regularization_error: 15.0403
Epoch 934/1000
120/120 [=====] - 16s 130ms/step - loss: 31.5993 - reconstruction_error: 14.7788 - regularization_error: 16.8205 - val_loss: 56.1636 - val_reconstruction_error: 41.1300 - val_regularization_error: 15.0335
Epoch 935/1000
120/120 [=====] - 19s 162ms/step - loss: 31.8260 - reconstruction_error: 15.0096 - regularization_error: 16.8164 - val_loss: 56.5905 - val_reconstruction_error: 39.8880 - val_regularization_error: 16.7025
Epoch 936/1000
120/120 [=====] - 17s 144ms/step - loss: 31.6246 - reconstruction_error: 14.8263 - regularization_error: 16.7983 - val_loss: 56.8545 - val_reconstruction_error: 41.9035 - val_regularization_error: 14.9510
Epoch 937/1000
120/120 [=====] - 22s 180ms/step - loss: 31.7739 - reconstruction_error: 15.0832 - regularization_error: 16.6907 - val_loss: 55.9069 - val_reconstruction_error: 40.6595 - val_regularization_error: 15.2473
Epoch 938/1000
120/120 [=====] - 21s 174ms/step - loss: 31.3944 - reconstruction_error: 14.7589 - regularization_error: 16.6355 - val_loss: 57.2220 - val_reconstruction_error: 41.0267 - val_regularization_error: 16.1953
Epoch 939/1000
120/120 [=====] - 20s 168ms/step - loss: 31.3993 - reconstruction_error: 14.7876 - regularization_error: 16.6117 - val_loss: 56.0410 - val_reconstruction_error: 41.1451 - val_regularization_error: 14.8959
Epoch 940/1000
120/120 [=====] - 20s 165ms/step - loss: 31.4111 - reconstruction_error: 14.7016 - regularization_error: 16.7094 - val_loss: 55.6212 - val_reconstruction_error: 40.8553 - val_regularization_error: 14.7659
Epoch 941/1000
120/120 [=====] - ETA: 0s - loss: 31.5597 - reconstruction_error: 14.8087 - regularization_error: 16.7510
[2023-12-01 19:59:50.435061]: Reconstructing images for epoch 941 ...
```



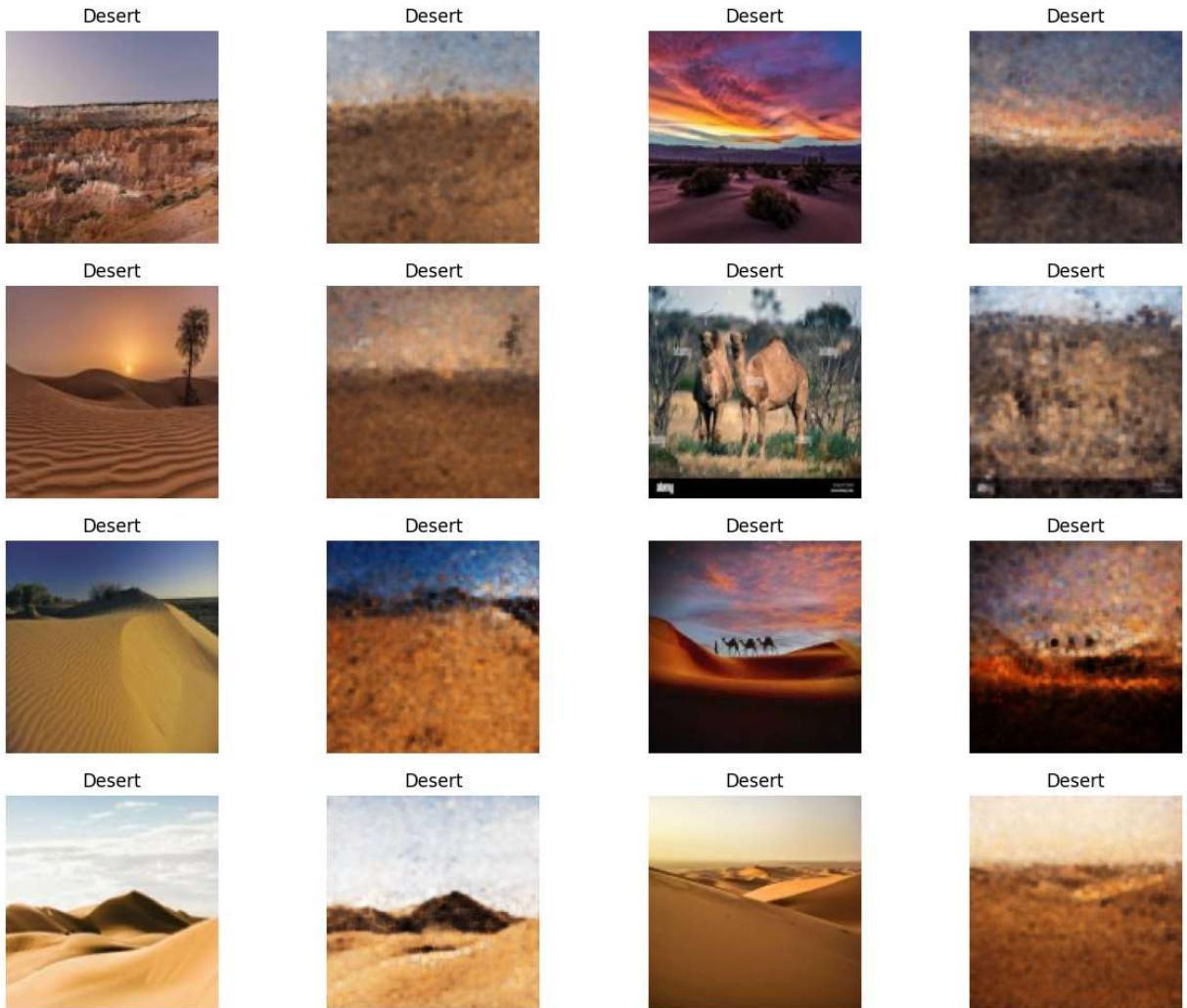
```
120/120 [=====] - 23s 192ms/step - loss: 31.5597 - reconstruction_error: 14.8087 - regularization_error: 16.7510 - val_loss: 56.8678 - val_reconstruction_error: 40.4578 - val_regularization_error: 16.4100
Epoch 942/1000
120/120 [=====] - 19s 154ms/step - loss: 31.6928 - reconstruction_error: 14.8870 - regularization_error: 16.8058 - val_loss: 57.3664 - val_reconstruction_error: 41.6122 - val_regularization_error: 15.7542
Epoch 943/1000
120/120 [=====] - 19s 161ms/step - loss: 31.6056 - reconstruction_error: 14.8297 - regularization_error: 16.7759 - val_loss: 56.1087 - val_reconstruction_error: 40.2398 - val_regularization_error: 15.8689
Epoch 944/1000
120/120 [=====] - 17s 144ms/step - loss: 31.6401 - reconstruction_error: 14.8983 - regularization_error: 16.7418 - val_loss: 56.3475 - val_reconstruction_error: 40.9900 - val_regularization_error: 15.3575
Epoch 945/1000
120/120 [=====] - 21s 173ms/step - loss: 31.6953 - reconstruction_error: 14.8183 - regularization_error: 16.8771 - val_loss: 57.3785 - val_reconstruction_error: 40.7617 - val_regularization_error: 16.6168
Epoch 946/1000
120/120 [=====] - 18s 153ms/step - loss: 31.5514 - reconstruction_error: 14.8241 - regularization_error: 16.7273 - val_loss: 56.4129 - val_reconstruction_error: 40.6588 - val_regularization_error: 15.7541
Epoch 947/1000
120/120 [=====] - 19s 156ms/step - loss: 31.4076 - reconstruction_error: 14.7158 - regularization_error: 16.6918 - val_loss: 56.5438 - val_reconstruction_error: 40.5826 - val_regularization_error: 15.9613
Epoch 948/1000
120/120 [=====] - 18s 151ms/step - loss: 31.4964 - reconstruction_error: 14.8244 - regularization_error: 16.6720 - val_loss: 55.3961 - val_reconstruction_error: 40.4821 - val_regularization_error: 14.9141
Epoch 949/1000
120/120 [=====] - 18s 147ms/step - loss: 31.4669 - reconstruction_error: 14.7761 - regularization_error: 16.6908 - val_loss: 56.7091 - val_reconstruction_error: 41.5713 - val_regularization_error: 15.1377
Epoch 950/1000
120/120 [=====] - 17s 145ms/step - loss: 31.6523 - reconstruction_error: 14.9299 - regularization_error: 16.7223 - val_loss: 56.4749 - val_reconstruction_error: 40.1124 - val_regularization_error: 16.3626
Epoch 951/1000
120/120 [=====] - ETA: 0s - loss: 31.5325 - reconstruction_error: 14.7062 - regularization_error: 16.8263
[2023-12-01 20:03:00.082933]: Reconstructing images for epoch 951 ...
```



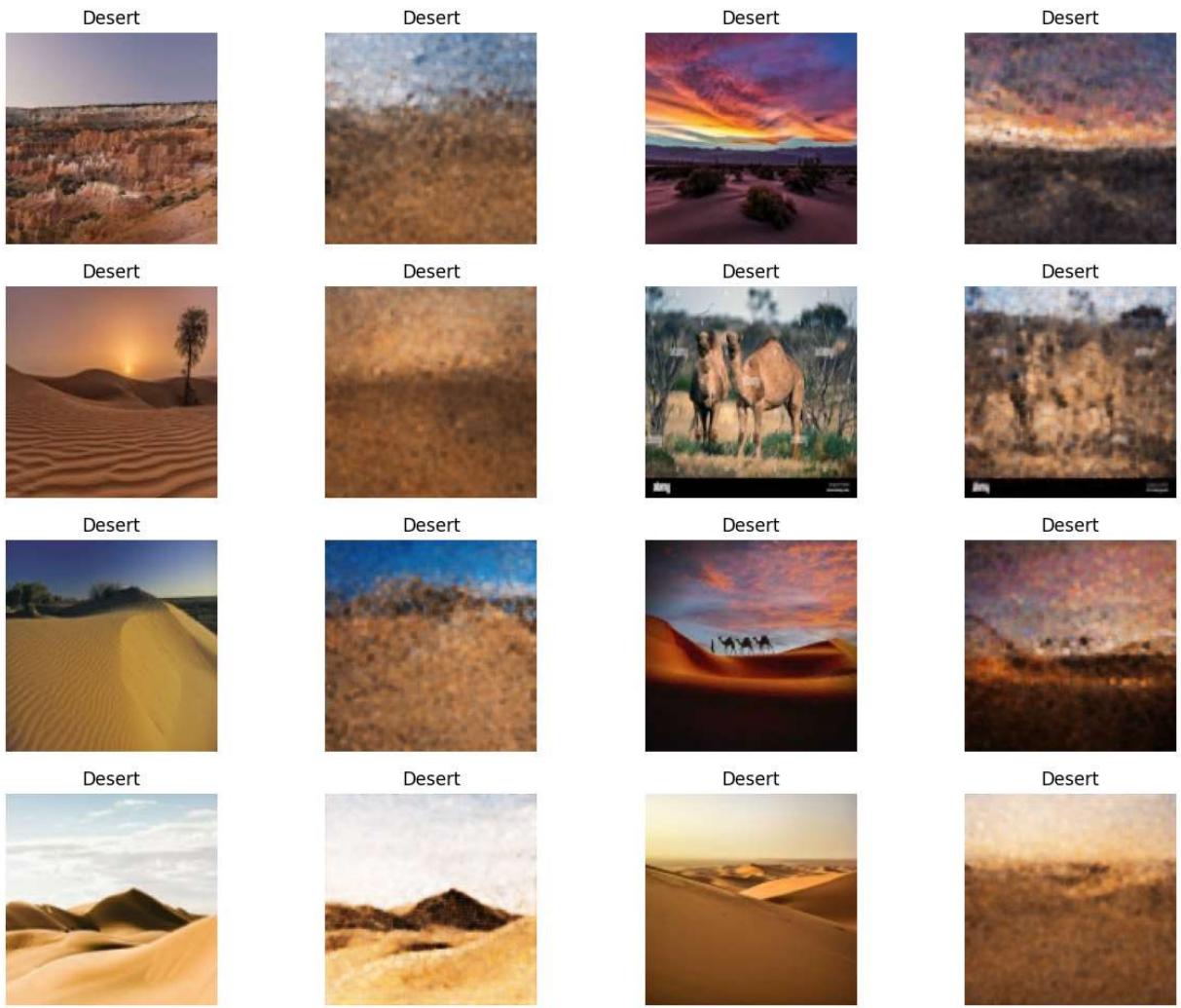
```
120/120 [=====] - 21s 171ms/step - loss: 31.5325 - reconstruction_error: 14.7062 - regularization_error: 16.8263 - val_loss: 56.0784 - val_reconstruction_error: 40.4692 - val_regularization_error: 15.6092
Epoch 952/1000
120/120 [=====] - 17s 138ms/step - loss: 31.7529 - reconstruction_error: 14.9426 - regularization_error: 16.8103 - val_loss: 56.4374 - val_reconstruction_error: 41.9735 - val_regularization_error: 14.4639
Epoch 953/1000
120/120 [=====] - 18s 150ms/step - loss: 31.5052 - reconstruction_error: 14.8517 - regularization_error: 16.6535 - val_loss: 55.7616 - val_reconstruction_error: 40.8345 - val_regularization_error: 14.9271
Epoch 954/1000
120/120 [=====] - 20s 164ms/step - loss: 31.3193 - reconstruction_error: 14.7085 - regularization_error: 16.6107 - val_loss: 56.5573 - val_reconstruction_error: 40.6605 - val_regularization_error: 15.8968
Epoch 955/1000
120/120 [=====] - 18s 152ms/step - loss: 31.4898 - reconstruction_error: 14.7857 - regularization_error: 16.7041 - val_loss: 56.2681 - val_reconstruction_error: 40.4076 - val_regularization_error: 15.8605
Epoch 956/1000
120/120 [=====] - 18s 149ms/step - loss: 31.7855 - reconstruction_error: 14.9335 - regularization_error: 16.8519 - val_loss: 56.7953 - val_reconstruction_error: 40.5565 - val_regularization_error: 16.2389
Epoch 957/1000
120/120 [=====] - 19s 156ms/step - loss: 31.4060 - reconstruction_error: 14.7058 - regularization_error: 16.7002 - val_loss: 57.0469 - val_reconstruction_error: 41.5791 - val_regularization_error: 15.4678
Epoch 958/1000
120/120 [=====] - 16s 134ms/step - loss: 31.3654 - reconstruction_error: 14.7183 - regularization_error: 16.6470 - val_loss: 56.6099 - val_reconstruction_error: 41.1601 - val_regularization_error: 15.4498
Epoch 959/1000
120/120 [=====] - 17s 141ms/step - loss: 31.4784 - reconstruction_error: 14.6849 - regularization_error: 16.7934 - val_loss: 56.5090 - val_reconstruction_error: 41.0780 - val_regularization_error: 15.4310
Epoch 960/1000
120/120 [=====] - 20s 164ms/step - loss: 31.4365 - reconstruction_error: 14.7668 - regularization_error: 16.6697 - val_loss: 55.4420 - val_reconstruction_error: 40.7008 - val_regularization_error: 14.7413
Epoch 961/1000
120/120 [=====] - ETA: 0s - loss: 31.4203 - reconstruction_error: 14.7202 - regularization_error: 16.7001
[2023-12-01 20:06:07.858698]: Reconstructing images for epoch 961 ...
```



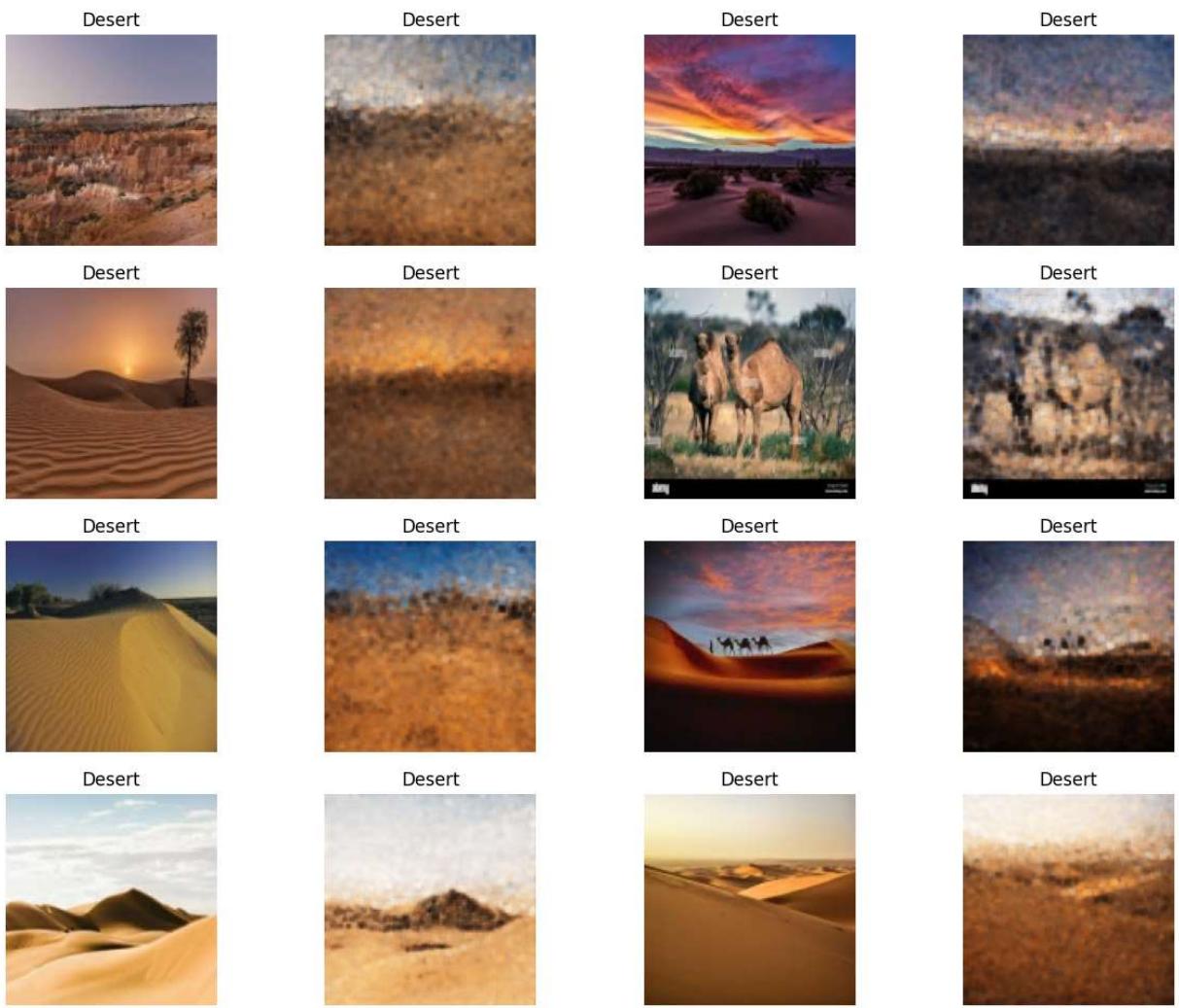
```
120/120 [=====] - 22s 182ms/step - loss: 31.4203 - reconstruction_error: 14.7202 - regularization_error: 16.7001 - val_loss: 55.3950 - val_reconstruction_error: 40.4403 - val_regularization_error: 14.9547
Epoch 962/1000
120/120 [=====] - 16s 134ms/step - loss: 31.4757 - reconstruction_error: 14.7599 - regularization_error: 16.7158 - val_loss: 56.2364 - val_reconstruction_error: 40.6019 - val_regularization_error: 15.6345
Epoch 963/1000
120/120 [=====] - 20s 165ms/step - loss: 31.2941 - reconstruction_error: 14.7285 - regularization_error: 16.5656 - val_loss: 56.1392 - val_reconstruction_error: 40.7984 - val_regularization_error: 15.3408
Epoch 964/1000
120/120 [=====] - 16s 130ms/step - loss: 31.4320 - reconstruction_error: 14.7487 - regularization_error: 16.6834 - val_loss: 56.7617 - val_reconstruction_error: 41.1645 - val_regularization_error: 15.5972
Epoch 965/1000
120/120 [=====] - 17s 137ms/step - loss: 31.4059 - reconstruction_error: 14.6656 - regularization_error: 16.7402 - val_loss: 56.1927 - val_reconstruction_error: 39.5767 - val_regularization_error: 16.6160
Epoch 966/1000
120/120 [=====] - 18s 149ms/step - loss: 31.4128 - reconstruction_error: 14.7610 - regularization_error: 16.6518 - val_loss: 57.1940 - val_reconstruction_error: 41.2071 - val_regularization_error: 15.9869
Epoch 967/1000
120/120 [=====] - 19s 155ms/step - loss: 31.8938 - reconstruction_error: 15.1584 - regularization_error: 16.7354 - val_loss: 57.6843 - val_reconstruction_error: 41.7627 - val_regularization_error: 15.9216
Epoch 968/1000
120/120 [=====] - 20s 163ms/step - loss: 31.4586 - reconstruction_error: 14.7483 - regularization_error: 16.7103 - val_loss: 56.2813 - val_reconstruction_error: 41.0736 - val_regularization_error: 15.2076
Epoch 969/1000
120/120 [=====] - 16s 132ms/step - loss: 31.4553 - reconstruction_error: 14.8907 - regularization_error: 16.5646 - val_loss: 56.3065 - val_reconstruction_error: 41.1203 - val_regularization_error: 15.1862
Epoch 970/1000
120/120 [=====] - 18s 149ms/step - loss: 31.6712 - reconstruction_error: 14.8586 - regularization_error: 16.8126 - val_loss: 55.7233 - val_reconstruction_error: 41.0555 - val_regularization_error: 14.6679
Epoch 971/1000
120/120 [=====] - ETA: 0s - loss: 31.5185 - reconstruction_error: 14.8359 - regularization_error: 16.6826
[2023-12-01 20:09:11.308556]: Reconstructing images for epoch 971 ...
```



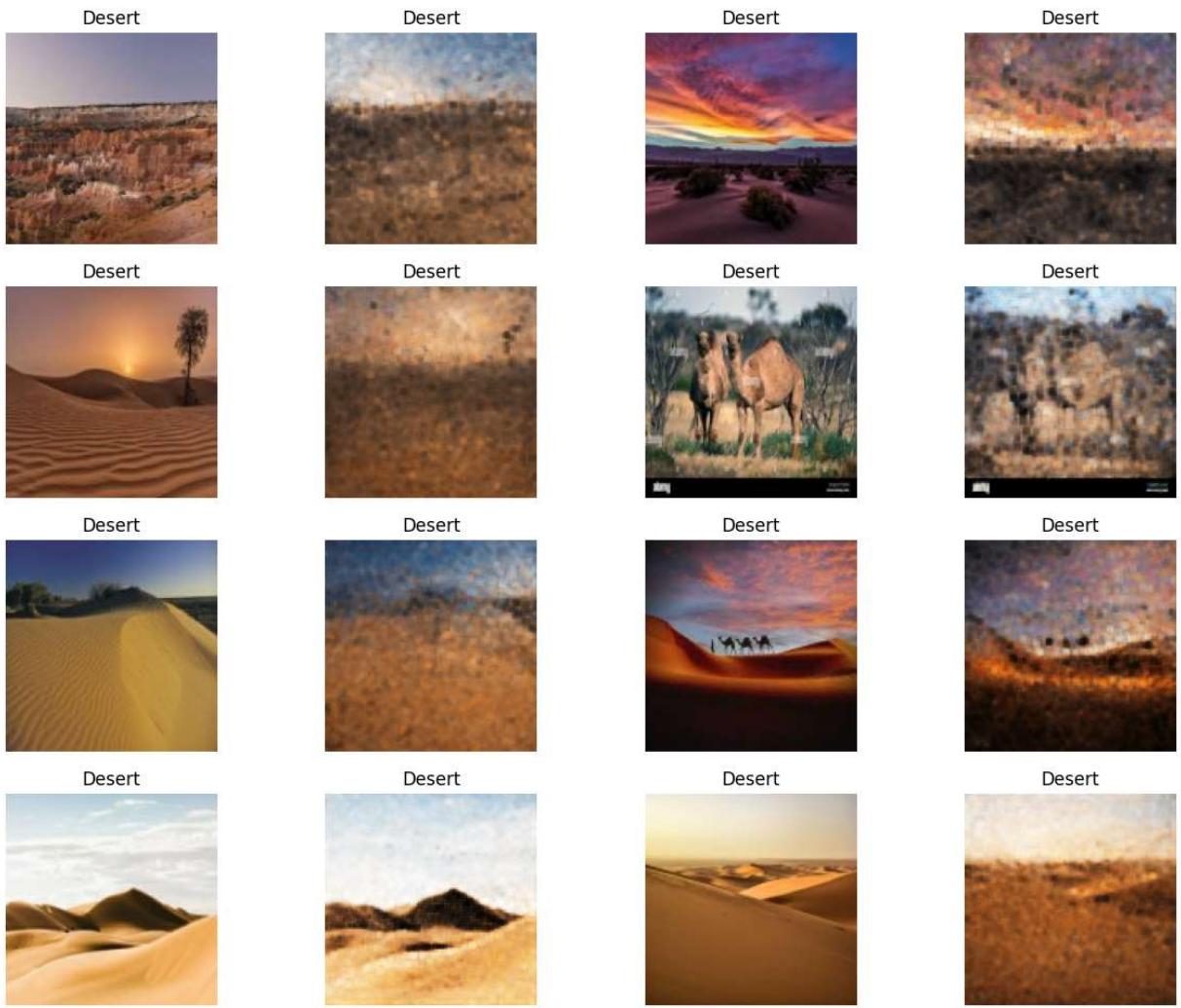
```
120/120 [=====] - 24s 199ms/step - loss: 31.5185 - reconstruction_error: 14.8359 - regularization_error: 16.6826 - val_loss: 56.8392 - val_reconstruction_error: 40.8508 - val_regularization_error: 15.9884
Epoch 972/1000
120/120 [=====] - 17s 141ms/step - loss: 31.4750 - reconstruction_error: 14.8270 - regularization_error: 16.6480 - val_loss: 56.3704 - val_reconstruction_error: 41.0953 - val_regularization_error: 15.2751
Epoch 973/1000
120/120 [=====] - 18s 152ms/step - loss: 31.4627 - reconstruction_error: 14.7131 - regularization_error: 16.7496 - val_loss: 55.9223 - val_reconstruction_error: 40.6945 - val_regularization_error: 15.2278
Epoch 974/1000
120/120 [=====] - 20s 167ms/step - loss: 31.4159 - reconstruction_error: 14.7124 - regularization_error: 16.7035 - val_loss: 56.6979 - val_reconstruction_error: 41.5241 - val_regularization_error: 15.1738
Epoch 975/1000
120/120 [=====] - 19s 160ms/step - loss: 31.4489 - reconstruction_error: 14.7553 - regularization_error: 16.6936 - val_loss: 57.6845 - val_reconstruction_error: 42.5608 - val_regularization_error: 15.1236
Epoch 976/1000
120/120 [=====] - 20s 161ms/step - loss: 31.3036 - reconstruction_error: 14.6321 - regularization_error: 16.6716 - val_loss: 56.1945 - val_reconstruction_error: 40.5358 - val_regularization_error: 15.6587
Epoch 977/1000
120/120 [=====] - 19s 156ms/step - loss: 31.6669 - reconstruction_error: 14.8252 - regularization_error: 16.8417 - val_loss: 57.2801 - val_reconstruction_error: 41.2771 - val_regularization_error: 16.0030
Epoch 978/1000
120/120 [=====] - 19s 158ms/step - loss: 31.3152 - reconstruction_error: 14.6006 - regularization_error: 16.7147 - val_loss: 56.1647 - val_reconstruction_error: 41.2199 - val_regularization_error: 14.9447
Epoch 979/1000
120/120 [=====] - 17s 142ms/step - loss: 31.5186 - reconstruction_error: 14.7576 - regularization_error: 16.7610 - val_loss: 56.0482 - val_reconstruction_error: 41.1181 - val_regularization_error: 14.9301
Epoch 980/1000
120/120 [=====] - 17s 140ms/step - loss: 31.5260 - reconstruction_error: 14.8777 - regularization_error: 16.6483 - val_loss: 56.2699 - val_reconstruction_error: 41.0469 - val_regularization_error: 15.2230
Epoch 981/1000
120/120 [=====] - ETA: 0s - loss: 31.2840 - reconstruction_error: 14.6181 - regularization_error: 16.6660
[2023-12-01 20:12:19.143036]: Reconstructing images for epoch 981 ...
```



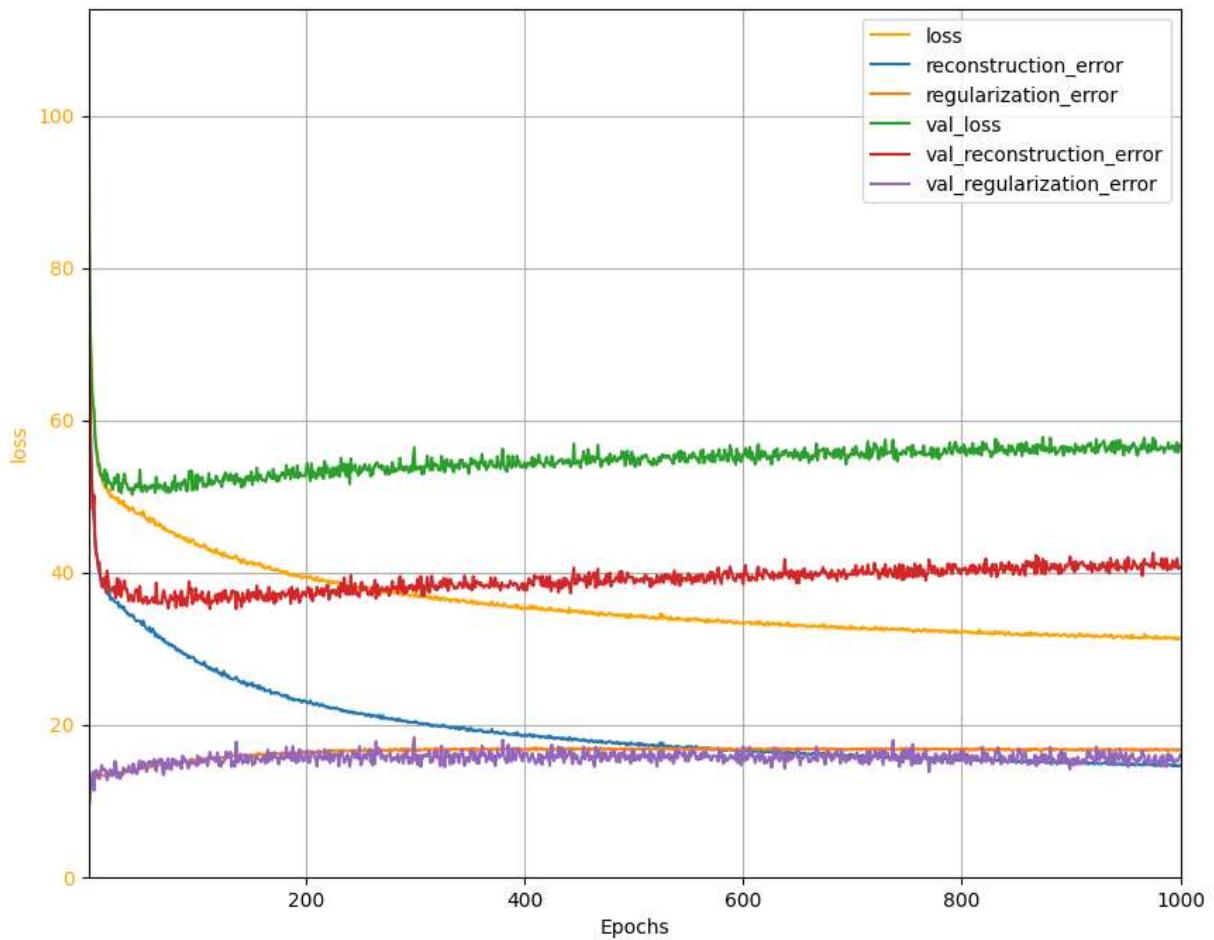
```
120/120 [=====] - 19s 158ms/step - loss: 31.2840 - reconstruction_error: 14.6181 - regularization_error: 16.6660 - val_loss: 56.1563 - val_reconstruction_error: 41.1127 - val_regularization_error: 15.0436
Epoch 982/1000
120/120 [=====] - 20s 166ms/step - loss: 31.2812 - reconstruction_error: 14.6303 - regularization_error: 16.6508 - val_loss: 56.5599 - val_reconstruction_error: 40.7870 - val_regularization_error: 15.7729
Epoch 983/1000
120/120 [=====] - 19s 159ms/step - loss: 31.3901 - reconstruction_error: 14.7048 - regularization_error: 16.6853 - val_loss: 56.3927 - val_reconstruction_error: 41.8610 - val_regularization_error: 14.5317
Epoch 984/1000
120/120 [=====] - 19s 153ms/step - loss: 31.4517 - reconstruction_error: 14.7021 - regularization_error: 16.7496 - val_loss: 56.4517 - val_reconstruction_error: 40.4582 - val_regularization_error: 15.9935
Epoch 985/1000
120/120 [=====] - 17s 143ms/step - loss: 31.5714 - reconstruction_error: 14.8370 - regularization_error: 16.7344 - val_loss: 55.7259 - val_reconstruction_error: 40.6172 - val_regularization_error: 15.1087
Epoch 986/1000
120/120 [=====] - 19s 154ms/step - loss: 31.3031 - reconstruction_error: 14.5737 - regularization_error: 16.7294 - val_loss: 56.2938 - val_reconstruction_error: 40.9660 - val_regularization_error: 15.3278
Epoch 987/1000
120/120 [=====] - 20s 168ms/step - loss: 31.2931 - reconstruction_error: 14.6658 - regularization_error: 16.6273 - val_loss: 56.3185 - val_reconstruction_error: 41.8685 - val_regularization_error: 14.4499
Epoch 988/1000
120/120 [=====] - 18s 150ms/step - loss: 31.5400 - reconstruction_error: 14.7810 - regularization_error: 16.7589 - val_loss: 56.3891 - val_reconstruction_error: 40.2916 - val_regularization_error: 16.0975
Epoch 989/1000
120/120 [=====] - 16s 129ms/step - loss: 31.4081 - reconstruction_error: 14.7604 - regularization_error: 16.6477 - val_loss: 57.0633 - val_reconstruction_error: 40.8730 - val_regularization_error: 16.1903
Epoch 990/1000
120/120 [=====] - 18s 148ms/step - loss: 31.3959 - reconstruction_error: 14.7200 - regularization_error: 16.6760 - val_loss: 56.2434 - val_reconstruction_error: 40.9997 - val_regularization_error: 15.2437
Epoch 991/1000
120/120 [=====] - ETA: 0s - loss: 31.4188 - reconstruction_error: 14.6658 - regularization_error: 16.7529
[2023-12-01 20:15:30.239281]: Reconstructing images for epoch 991 ...
```



```
120/120 [=====] - 23s 192ms/step - loss: 31.4188 - reconstruction_error: 14.6658 - regularization_error: 16.7529 - val_loss: 56.4055 - val_reconstruction_error: 40.4433 - val_regularization_error: 15.9622
Epoch 992/1000
120/120 [=====] - 17s 142ms/step - loss: 31.3674 - reconstruction_error: 14.6361 - regularization_error: 16.7313 - val_loss: 56.3557 - val_reconstruction_error: 40.5070 - val_regularization_error: 15.8487
Epoch 993/1000
120/120 [=====] - 24s 199ms/step - loss: 31.4037 - reconstruction_error: 14.7410 - regularization_error: 16.6626 - val_loss: 56.7000 - val_reconstruction_error: 41.5698 - val_regularization_error: 15.1301
Epoch 994/1000
120/120 [=====] - 17s 136ms/step - loss: 31.2750 - reconstruction_error: 14.5574 - regularization_error: 16.7176 - val_loss: 56.2949 - val_reconstruction_error: 41.2751 - val_regularization_error: 15.0198
Epoch 995/1000
120/120 [=====] - 20s 165ms/step - loss: 31.4950 - reconstruction_error: 14.7323 - regularization_error: 16.7627 - val_loss: 55.8529 - val_reconstruction_error: 40.6546 - val_regularization_error: 15.1982
Epoch 996/1000
120/120 [=====] - 21s 174ms/step - loss: 31.2263 - reconstruction_error: 14.5882 - regularization_error: 16.6381 - val_loss: 56.7022 - val_reconstruction_error: 41.2512 - val_regularization_error: 15.4510
Epoch 997/1000
120/120 [=====] - 19s 156ms/step - loss: 31.3120 - reconstruction_error: 14.6617 - regularization_error: 16.6503 - val_loss: 57.0688 - val_reconstruction_error: 41.8293 - val_regularization_error: 15.2394
Epoch 998/1000
120/120 [=====] - 18s 154ms/step - loss: 31.2146 - reconstruction_error: 14.5563 - regularization_error: 16.6583 - val_loss: 55.7640 - val_reconstruction_error: 40.4957 - val_regularization_error: 15.2683
Epoch 999/1000
120/120 [=====] - 18s 149ms/step - loss: 31.4029 - reconstruction_error: 14.6200 - regularization_error: 16.7828 - val_loss: 56.2791 - val_reconstruction_error: 40.5756 - val_regularization_error: 15.7035
Epoch 1000/1000
120/120 [=====] - ETA: 0s - loss: 31.4174 - reconstruction_error: 14.6591 - regularization_error: 16.7583
[2023-12-01 20:18:48.229988]: Reconstructing images for epoch 1000 ...
```



120/120 [=====] - 22s 186ms/step - loss: 31.4174 - reconstruction_error: 14.6591 - regularization_error: 16.7583 - val_loss: 56.7024 - val_reconstruction_error: 40.6632 - val_regularization_error: 16.0392



Generation

