6. CONCLUSION & FUTURE WORK

6.1 CONCLUSION

From our research work we can conclude that indexing is the most important part of Content based Image Retrieval system. A good indexing provides good retrieval. The indexing provides relevant data to the retrieval process to find a similarity among image that has been queried with the image data set. Accurate information about an image in necessary to achieve good retrieval results. As a matter of fact that a system that execute most excellent with one image data set but may not perform same with other image data set. Thus we can say that indexing is very much affected by image retrieval process from an image data set.

As we can see from the results that no complete indexing system that is best and can handle each and every type of image data set.

In our research work we are working on multiple combination image features. While comparing the two image feature system, i.e. global features are less substantial than the region feature. Results shows in the process of indexing if we use more features of an image are used as an index it increases the time and space to process it and they're higher chances of redundancy.

As we know that index in Content Based Image Retrieval System is a very tough matter. Because it involves statistical data analysis, image processing and vision and some other fields that require a high degree of mathematical computation.
6.2 Future Work

In future work we can choose the different tree structure like R*-Tree. R* - Tree developed by N. Beckmann & Seeger [98] or can select Tree like VP- Tree that is developed by Yianilos. R*- tree is better as compared with the linear R-Tree and Quadratic R-Tree. In the nearest neighbor search algorithm VP - Tree is best.

As we know that searching algorithm used by the tree has a great impact on retrieval of images too. If we choose the best searching algorithm that leads to less time and more accuracy in the retrieval process.

Image feature choice is also more important in indexing adjacent to the selection of the R- tree structure. In future we will make more focus on region features as compare to the global features. In this research work global feature is used is calculated on the basis of regions. Some different retrieval technique can be used to improve the timeliness and accuracy.