**Contents**

**S.No. Topic Page No.**

Abstract i

List of Figures ii

List of Tables iii

1. Introduction 1

1.1 Objectives 1

1.2 Methodology 2

1.3 Organisation of Project 4

2. Theoretical Analysis of the proposed project 5

2.1 System Specifications and features 5

2.1.1 Technology Description 5

2.2 Architecture Diagram 11

2.3 Software Requirements Specifications 12

3. Low Level Design 13

3.1 Image Recognition 13

3.1.1 Construction of Convolution Networks 13

3.2 Extraction of Deep features 26

3.2.1 Inception Algorithm 26

3.2.2 GoogLeNet 30

4. Implementation 33

4.1 Code 33

4.2 Output Screens 80

5. Test Cases 82

5.1 Unit Test Cases 83

6. Conclusion and Future enhancements 85

7. References 86