**CONTENTS**

|  |  |
| --- | --- |
| List of Figures | i |
| List of Tables | ii |
| **1. INTRODUCTION** | **1** |
| 1.1 Introduction to computer graphics | 1 |
| 1.1.1 OpenGL | 1 |
| 1.1.2 Computer graphics technology | 3 |
| 1.2 OpenGL APIs | 3 |
| 1.3 Header files and Libraries | 4 |
| 1.4 Advantages of computer graphics | 4 |
| **2. SYSTEM ANALYSIS** | **5** |
| 2.1 Scope of the project | 5 |
| 2.2 Aim of the project | 5 |
| 2.3 Overview of the project | 5 |
| 2.3.1 Benefits | 6 |
| 2.3.2 Constraints | 6 |
| 2.3.3 Applications | 6 |
| **3. REQUIREMENT SPECIFICATION** | **7** |
| 3.1 Functional Requirements | 7 |
| 3.2 Non-Functional Requirements | 7 |
| 3.3 System requirements | 7 |
| 3.3.1 Hardware Requirements | 7 |
| 3.3.2 Software Requirements | 8 |
| **4. SYSTEM DESIGN** | **9** |
| 4.1 Design of the system | 9 |
| 4.2 Flowchart | 10 |
| 4.3 Pseudo code | 11 |
| 4.4 Functions | 12 |
| 4.4.1 Headers | 12 |
| 4.4.2 User defined functions | 13 |
| 4.4.3 Built in functions | 14 |
| **5. TESTING** | **16** |
| 5.1 Introduction to testing | 16 |
| 5.2 Stages in the implementation of testing | 16 |
| 5.3 Test cases | 17 |
| **6. RESULT AND SNAPSHOTS** | **18** |
| **CONCLUSION** | **21** |
| **FUTURE ENHANCEMENT** | **22** |
| **BIBLIOGRAPHY** | **23** |