**TABLE OF CONTENTS**

|  |  |  |
| --- | --- | --- |
| **Chapter** | **Title / Description** | **Page No.** |
| **Chapter 1** | **INTRODUCTION** | 01-12 |
| 1.1 | Project Overview (Aim) | 01 |
| 1.1.1 | Problem Context and Motivation | - |
| 1.1.2 | Project Objectives | 02 |
| 1.1.3 | System Overview | 03 |
| 1.1.4 | Market Relevance and Innovation | 04 |
| 1.2 | Project Scope (Functions) | 07 |
| 1.2.1 | Functional Requirements | - |
| 1.2.2 | Non-Functional Requirements | 11 |
| 1.2.3 | Scope Exclusions | 12 |
| **Chapter 2** | **SYSTEM ANALYSIS** | 13-28 |
| 2.1 | Need for the System | - |
| 2.1.1 | Quantitative Inefficiencies | - |
| 2.1.2 | Qualitative Deficiencies | 14 |
| 2.1.3 | Domain-Specific Pain Points | - |
| 2.1.4 | Technological Gaps | 15 |
| 2.1.5 | Strategic Imperative | 16 |
| 2.2 | Proposed System | - |
| 2.2.1 | System Architecture Overview | 17 |
| 2.2.2 | Core Functional Components | 18 |
| 2.2.3 | Operational Workflow | - |
| 2.2.4 | Strategic Advantages | - |
| 2.3 | Feasibility Study | 19 |
| 2.3.1 | Technical Feasibility | - |
| 2.3.2 | Economic Feasibility | - |
| 2.3.3 | Operational Feasibility | - |
| 2.3.4 | Schedule Feasibility | 20 |
| 2.4 | Software Requirement Specification | 21 |
| 2.4.1 | Introduction | - |
| 2.4.2 | Overall Description | 23 |
| **Chapter 3** | **SYSTEM DESIGN** | 29-41 |
| 3.1 | Project Work Details | - |
| 3.1.1 | Architectural Components | - |
| 3.1.2 | Implementation Strategy | 31 |
| 3.1.3 | Performance and Scalability | 32 |
| 3.2 | Data Flow Diagram | 33 |
| 3.2.1 | Level-0 DFD (Context Diagram) | 34 |
| 3.2.2 | Level-1 DFD | 35 |
| 3.3 | Workflow Design | 36 |
| 3.3.1 | Workflow Overview | - |
| 3.3.2 | Detailed Workflow Steps | 37 |
| 3.3.3 | Workflow Optimization | 40 |
| 3.3.4 | Error Handling and Recovery | 41 |
| 3.3.5 | Extensibility and Future Enhancements | - |
| **Chapter 4** | **INPUT AND OUTPUT SCREENS** | 42-49 |
| 4.1 | Input Screens | - |
| 4.1.1 | Upload Screen | - |
| 4.1.2 | Query Input Screen | 43 |
| 4.2 | Output Screens | 46 |
| 4.2.1 | Results and Visualization Screen | 47 |
| **Chapter 5** | **TESTING** | 50-57 |
| 5.1 | Testing Objectives | - |
| 5.2 | Testing Methodologies | 51 |
| 5.2.1 | Unit Testing | - |
| 5.2.2 | Integration Testing | 52 |
| 5.2.3 | System Testing | 53 |
| 5.3 | Test Cases | 55 |
| 5.3.1 | Sample Test Cases | - |
| 5.4 | Testing Tools and Environment | 56 |
| 5.5 | Test Results and Metrics | 57 |
| **Chapter 6** | **CONCLUSION** | 58-62 |
| 6.1 | Project Outcomes | - |
| 6.2 | Contributions and Impact | 60 |
| 6.3 | Limitations | 61 |
| 6.4 | Future Scope | 62 |
| 6.5 | Final Remarks | - |
|  | References | 63 |

**LIST OF FIGURES**

|  |  |  |
| --- | --- | --- |
| **Figure No.** | **Title** | **Page No.** |
| Fig. 1.1 | AskMyPDF System Architecture (Three-Tier MVC) | 04 |
| Fig. 1.2 | Functional Scope Diagram (Document Ingestion → Query → Visualization) | 12 |
| Fig. 2.1 | Current Tooling Limitations (Venn Diagram) | 16 |
| Fig. 2.2 | System Architecture Diagram (Presentation–Application–Data Processing) | 17 |
| Fig. 3.1 | Level-0 Data Flow Diagram (Context Diagram) | 34 |
| Fig. 3.2 | Level-1 Data Flow Diagram | 36 |
| Fig. 3.3 | High-Level Workflow Diagram | 37 |
| Fig. 3.4 | Detailed Workflow Flowchart | 40 |
| Fig. 4.1 | Introduction / Splash Screen | 45 |
| Fig. 4.2 | Upload Screen Interface | - |
| Fig. 4.3 | Query & Answer Screen (Results and Visualization Layout) | 48 |

**LIST OF TABLES**

|  |  |  |
| --- | --- | --- |
| **Table No.** | **Title** | **Page No.** |
| Table 1.1 | Competitive Comparison (AskMyPDF vs Adobe vs ABBYY) | 05 |
| Table 1.2 | Extraction Performance Metrics | 09 |
| Table 2.1 | Productivity Impact Metrics | 14 |
| Table 2.2 | Feasibility Analysis Summary | 20 |
| Table 2.4 | Functional Requirements Summary | 25 |
| Table 3.1 | Architectural Components | 30 |
| Table 3.2 | Performance Targets | 33 |
| Table 3.3 | Workflow Performance Metrics | 41 |
| Table 4.1 | Input Screen Components | 46 |
| Table 4.2 | Output Screen Components | 48 |
| Table 5.1 | Testing Objectives and Metrics | 51 |
| Table 5.2 | Testing Methodologies | 54 |
| Table 5.3 | Sample Test Cases | 56 |
| Table 5.4 | Test Results Summary | 57 |
| Table 6.1 | Key Outcome Metrics | 59 |