

**Koyya PDF Generator**  
**System Requirements Specification**  
**Version<2.0>**

### **Revision History**

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# **1. Introduction**

## **1.1 Purpose**

The purpose of this System Requirement Specification Document is to outline the functional, non-functional and system requirements for development and use of Koyya PDF Generator, a PDF generation tool that allows the user to instantly generate Internship Offer Letters. The aim of this document is to collect and analyse all assorted ideas that have come up to define the system, and its requirements with respect to users. The document provides a detailed overview of our Software Tool, its parameters and goals.

PDFs are by far the most convenient format of documents. They work on almost all systems and are widely used. Document generation is the method of creating critical documents like offer letters, invoices, payslips, project proposals etc. Automating this process can help accelerate and improve an organisation's everyday tasks

## **1.2 Scope**

The scope of this tool includes, taking input of the dynamic information, generating offer letters and storing data into the database. It is a specific use of Automatic PDF generation for offer letters and can be extended to any kind of document such as Payslips, Invoices, Contracts etc.

The primary idea behind this is that the static information doesn't change from one intern to another. In simple words, the template remains the same. Doing this manually takes a lot of time and effort. It is subject to human error and is inefficient. Koyya PDF Generator automates this process and makes it highly efficient.

## **2. Functional Requirements**

### **2.1 Data Collection**

- The system shall collect intern details such as Name, Address, Contact information, Email Id, Aadhar number.
- The system shall collect internship-specific details such as start date, end date, position, practice area, and stipend.
- The system shall validate data to ensure the correct format of data is entered. It shall display a validation error in case of wrong inputs.

### **2.2 User Interface**

- The system shall provide a user-friendly interface for data entry through the Terminal/CLI.
- The system shall display a preview of input entered.
- The system shall allow user to make changes to the data if required

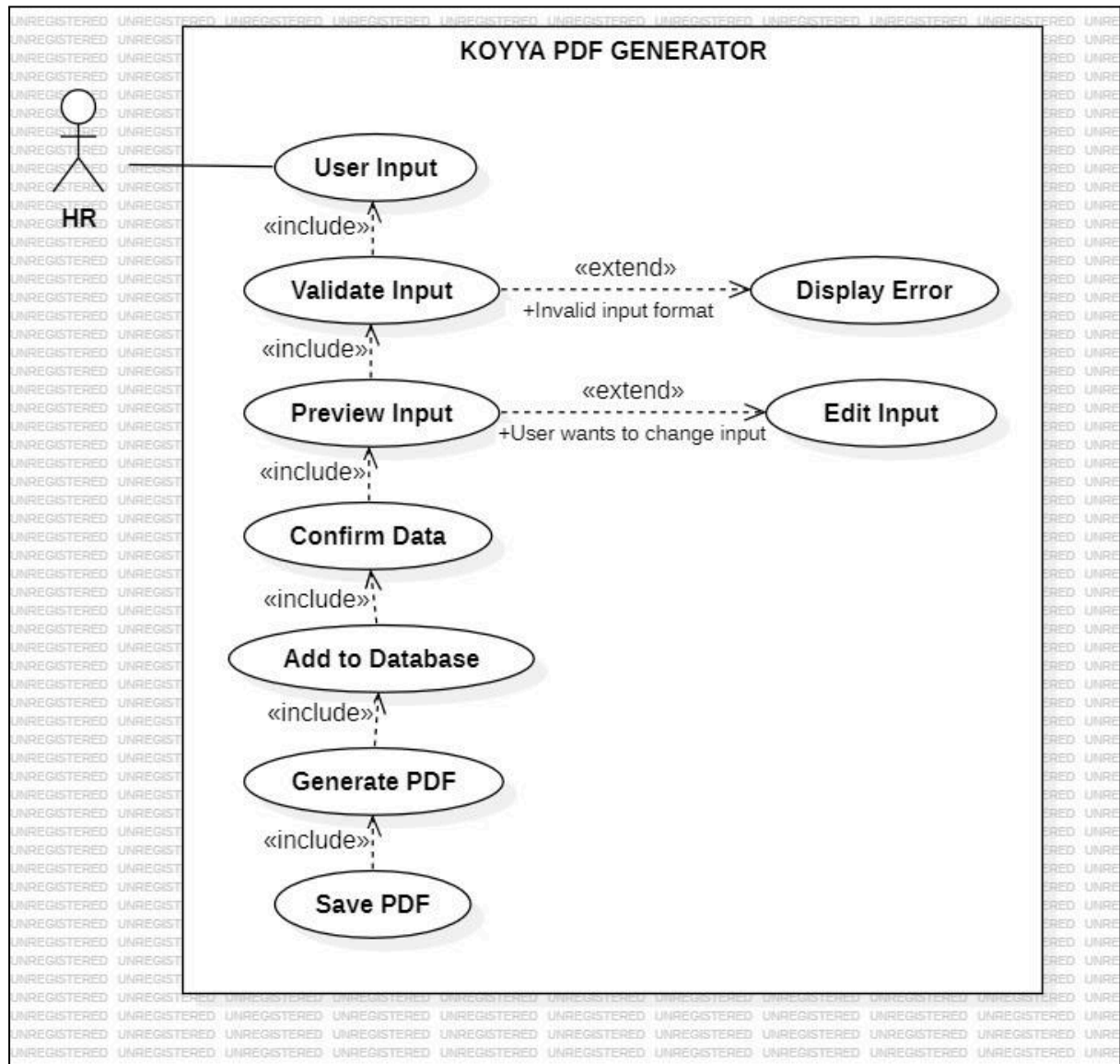
### **2.3 Data Storage**

- The system shall store the collected data in the Company's MongoDB database
- The system shall update the file number according to the number of documents in the Interns Collection of the Database.

### **2.4 PDF Generation**

- The system shall generate a personalised Offer Letter in the company's template
- The offer letter thus generated shall include details of the intern, internship schedule and other instructions.
- The offer letter shall be saved as a PDF with Filename as 'offerletter\_filename.pdf'

## 2.5 Use Case Diagram



### **3. Non-Functional Requirements**

#### **3.1 Performance**

The system shall handle data entry and PDF generation within a few seconds.

#### **3.2 Reliability**

The system shall reliably store and retrieve data without loss or corruption.

#### **3.3 Usability**

The user interface shall be intuitive and easy to use.

#### **3.4 Security**

The system shall ensure the confidentiality and integrity of the stored data.

#### **3.5 Scalability**

The system shall be able to handle an increasing number of interns and generated offer letters.

### **4. System Requirements**

- **Operating System:** Windows, macOS, Linux
- **Dependencies:** Python 3.7+, pip 24.0
- **RAM:** Minimum 4 GB
- **Database:** MongoDB Community Edition 7.0.11
- **Driver:** PyMongo 4.7.2
- **Libraries:** Python Inquirer 3.2.4, ReportLab 4.2.0

## **5. Dictionary**

- PDF: Portable Document Format, used for presenting documents.
- CLI: Command Line Interface
- DB: Database, used for storing and managing data.
- RAM: Random Access Memory, a type of computer memory.
- UML: Unified Modelling Language, a general purpose modelling language to visualise design of a system

## **6. References**

- MongoDB Documentation : <https://www.mongodb.com/docs/manual/>
- ReportLab User Guide : [https://docs.reportlab.com/reportlab/userguide/ch1\\_intro/](https://docs.reportlab.com/reportlab/userguide/ch1_intro/)
- Python Inquirer Documentation <https://python-inquirer.readthedocs.io/en/latest/usage.html>
- Glarimy Design Repository (UML Use Case Diagrams) :  
<https://bitbucket.org/glarimy/design/src/b3e4145f223e085adf8538577a04126558edcf9d/uml/usecase-diagrams.md>