**Client Handover Document**  
**Project Name:** PrintDesk

## 📅 Handover Date

**Date:** [Insert Date Here]  
**Prepared By:** [Your Name / Company Name]

## 📖 1. Project Overview

**PrintDesk** is a web-based analytics solution designed for industrial environments to monitor and analyze printer usage data. The platform enables users to upload Excel files containing print log data, which is then visualized using Power BI embedded within the website.

## 🔧 2. Key Features Delivered

* ✅ Excel file upload feature for print data (user, printer, pages, time, etc.)
* ✅ Data processing backend using Python Flask and MSSQL
* ✅ Power BI Embedded dashboards
* ✅ Role-based SSO login system with 3 access levels:
  + **Admin**: manage users and permissions
  + **Uploader**: upload Excel and view dashboards
  + **Viewer**: view-only access
* ✅ Data Filters:
  + Time-based: Yearly, Monthly, Weekly, Daily
  + Usage-based: Top 10 most/least used printers, top users, large single print jobs
  + Department-based filtering

## 📃 3. Technical Details

**Technology Stack:** - **Frontend:** HTML/CSS + Power BI embedded - **Backend:** Python Flask - **Database:** Microsoft SQL Server (accessed via ODBC driver) - **Authentication:** SSO-based login system

**Power BI:** Embedded visualizations configured and filtered using dynamic queries from the backend.

**Hosting/Deployment:** [Specify server/cloud if applicable]

## 🔐 4. Credentials & Access (Provided Separately)

* Admin panel access URL
* Database credentials (if required)
* Power BI admin access
* Server login credentials (if applicable)

⚠️ All passwords are shared securely via encrypted channels.

## 👥 5. User Roles Summary

| Role | Upload Data | View Data | Manage Users |
| --- | --- | --- | --- |
| Admin | ✅ | ✅ | ✅ |
| Uploader | ✅ | ✅ | ❌ |
| Viewer | ❌ | ✅ | ❌ |

## 🔄 6. Maintenance & Support

* Regular database backups recommended (weekly or daily)
* Excel format validation enforced during uploads
* Users managed via Admin role panel

For technical support or future updates, contact [Insert Contact Info].

## 📊 7. Known Limitations / Future Scope

* Currently supports only .xlsx files with a predefined format
* Further enhancements possible:
  + Email alerts for printer overuse
  + Real-time data integration from printer software

## 📊 8. Appendix / Attachments

* Sample Excel file format
* Power BI dashboard snapshot
* User guide PDF (if created)

**Client Sign-Off:**  
By signing below, the client confirms successful delivery and understanding of the system.

**Client Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
**Signature:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
**Date:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Thank you for choosing us for your PrintDesk project! 🚀