

- **First inventor/s (Student/Faculty/Research Scholar):**

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- **Email id of the inventor/s (Student/Faculty/Research Scholar):**

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- **Contact Number of the inventor (Student/Faculty/Research Scholar):**

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- **Title of the Project:** Smart Printing and Workflow automation

- **Group Members with PRN:**

- Dr. Anuradha Thakare
- Soham Devidas Mhatre 122B1C041
- Manthan Vijay Barhate 122B1C005
- Hari Pandurang Padalwar 122B1C047
- Omkar Khoche 122B1C035

- **Faculty Mentor Name:** Dr. Anuradha Thakare

- **Department of the Mentor:** Computer Science Engineering CSE (AI & ML)

- **Email ID of faculty mentor:** adthakare2014@gmail.com

- **Abstract:** *Printing services often face delays, errors, and poor user experience due to outdated manual workflows. Long queues, unreliable file uploads, and cash-only payments or manual verification of online payments make the process inefficient for both users and operators. This invention presents a smart automated printing system allowing document submission via messaging platforms or email, with print preferences selection and digital or cash payments. Features include dynamic queue management, QR-based temporary WiFi access for file uploads, and optional guide dots for manual finishing. Hosted locally with minimal infrastructure and no cloud dependency, it reduces human error, wait times, and resource wastage while keeping digitization costs low—offering a fast, secure, user-friendly printing experience for modern environments.*

- **Broad Domain of the Project:** Automation, Printing Technology, Software Development

- **Patentable Project: Innovation and Unique Feature:**
 - Messaging Based Printing Job Submission
 - QR Code-Based Temporary WiFi Access
 - Automated Print Job Queuing and Execution
 - Integrated Digital Payment System (UPI, Wallets, Cards)
 - Print Guide Markers for Manual Finishing
 - Locally Hosted, No Expensive Server Requirements
 - No Middlemen – Direct Print Execution

- **Sustainable Development Goal (SDG) Alignment (Select Max 2 SDG Goals out of enlisted 17):**
 - SDG8: Decent Work and Economic Growth
 - SDG9: Industry, Innovation and Infrastructure
 - SDG11: Sustainable Cities and Communities

- **SDG Alignment:** SDG 8, SDG 9, SDG 11

- **Industrial Application:**
 - Automated Printing at Public Print Centers
 - Self-Service Printing in Educational Institutions
 - Corporate and Office Printing Management
 - Public Libraries and Co-Working Spaces
 - Government and Administrative Offices
 - Event and Conference Printing Stations
 - Legal and Business Service Providers

- **Suitable industry for collaboration, contact details if any:** * Xerox centers
 - Educational institutions
 - Corporate offices
 - Libraries

- **Project Status:** MVP (most viable product) ready
- **Prototype Ready / Completed:** Prototype Ready