# Solution Design Document (SDD)

\*\*Project:\*\* Employee Attendance Report Automation

## Architecture Overview

The automation is built in UiPath and divided into modular workflows:

- Main.xaml – Orchestrates the entire process.  
- Process\_Excel\_Files.xaml – Reads and consolidates Excel data.  
- Generate\_Report.xaml – Generates and saves the final report.  
- Send\_Email.xaml – Sends the report to HR Manager via Gmail.

## Variables and Arguments

Key variables include dt\_Global (DataTable), in/out arguments for file paths, email details, and report metadata.

## Dependencies

Required packages: UiPath.Excel.Activities, UiPath.Mail.Activities, UiPath.GSuite.Activities