# Abstract

# Introduction

## Problem statement

This project of ‘smart receipt management and Extraction’ aim to enhance the efficiency of company accounting process, which “plays a significant role in the effective management process” (Alabdullah, 2019). A big part of this accounting process consists of the logging of varied expenses and for numerous raisons has been a manual process. Such a repetitive has always require a significant amount of time and energy. Therefore, this project has for purpose to develop a solution to the problematic: How to facilitate the receipt logging process?

## Background

Has said while elaborating the process statement, the purpose of this project is to facilitate the logging of receipt. This problematic come from the different impacts of this manual receipt logging task, has said before it requires humans’ action to log the different receipt one by one using a lot of time and energy, automating this process could considerably assist the users in this task, leading to a digitalization of this task and logging. Some solution already exists in the market such has “Recipator AI” (AI, no date) or “Veryfi” (*Transform Documents into Actionable Data in Seconds using Veryfi OCR API*, no date) but are limited in functionalities not adapted to the Mauritians market, lacking easy to use system. More other, digitalize the process of receipt handling is also providing a more ecologic move by reducing the ecologic impact from this task which produce a high amount of paper waste and business carbon footprint. In summary, this project aims to tackle the specific task of handling and managing receipt through a user-friendly system using the latest state-of-the-art technologies.

## Aims

This project of “Smart Receipt Management and Extraction” system is designed to streamline and simplify the repetitive and time consuming of handling, organizing and informatize receipt, whether physical or digital. Therefore, the primary purpose of this project is to serve a comprehensive receipt extraction and management system, offering the user a set of feature leading to a user friendly user-interface.

## Objectives

Literature Review

Gather the similar project and research paper in order to retreive the possible technoilogies that can used with their advantage and disadvantages in order to use appropriate state-of-the-art technologies for the different elements of the system.

Receipt extraction model

Develop an receipt extraction model which will be use to efficiantly extract the data out of the receipt, offering to the user the wanted receipt extraction automation to facilitate the receipt logging.

Receipt dataset

Gather the biggest receipt dataset in order to have the most precise and efficiant model to extract as efficiently possibly the user’s receipts, this dataset will be use for the training and testing process of this receipt prediction model.

Mobile Application

Devellop a Mobile application has front-enfd of the project, it will be use by the users has a gateway for the system which will be partially in a server.

Local Server

Develop a local server which will be used to host the extraction model and the database. It will contain all the “heavy” process need by the system.

System Test

Create tests for the system and his different component such as the mobile application, the server, the communication between then and the different feature which will be provided to the user.

## Literature review

Requirements specification

Analysis and design

Implementation and testing

Conclusion