

**VIT BHOPAL UNIVERSITY**

**EPICS 2020**

DSN3099 Engineering Project in Community Service

Project Diary

Project Title: Electronic invoicing for the advancement of supply chain management benefiting local vendors

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| **Sl.** | **Team Members( Register Number & Name)** |
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# ABSTRACT

In a fully connected world, where goods move from corner to another - how does information on product portfolio, pricing, reconciliation between a buyer and seller happen? - It is predominantly manual. We are trying to tackle- Without making huge changes in buyer/seller systems, how do we digitize product, pricing, promotion information available in printed documents without Human intervention - Electronic Digitization of any buyer’s documents say Invoice/Bill of entry.

Most vendors have their receive-to-pay-process as predominantly manual, leading to non-reliability of payments & delayed visibility for sellers and requirement of additional manpower for scaling up for buyers. Moving to a fully automated invoice processing will enable a faster, reliable & scalable payments process.

**Technology Used:**

We will take a scanned image or a PDF of the invoice that the vendors upload on our portal.

**What will the backend do:**

* It will pre-process the whole document
* Run it through OCR
* Collect the information with maximum accuracy and precision
* Natural Language Processing
* Convolutional Neural Network
* Machine Learning Models
* Take the data from pdf and scanned images to a well-formatted CSV/Excel file.
* Can even give the output in the XML format for more suitability.
* Add the data to an encrypted cloud database so that the whole supply chain is found under one roof.
* Directly provide the CSV/Excel for the vendor’s perusal.
* promotion information available in printed documents without Human intervention - Electronic Digitization of any buyer’s documents say Invoice/Bill of entry.

**Fall 20-21**

**Review 0 (Title Confirmation)**

**Review 1:**

**Date:**

**Review Panel Members:**

**Comments**

**Winter 20-21 Review 2:**

**Date:**

**Review Panel Members:**

**Comments**

**Review 3:**

**Date:**

**Review Panel Members:**

**Comments**

**Final Review:**

**Date:**

**Review Panel Members:**

**Comments**

**COMMENTS**