



Inventory System for UCC – College of Engineering Library	
Progress Report No. 1	
Course Code: CpE 201L	Program: BSCpE
Course Title: Data Structure and Algorithm	Date Performed: 09/13/2025
Section: 2A	Date Submitted: 09/13/2025
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Discussion <p>Our project is a Library Inventory System designed to simplify the process of converting Excel files (containing book information) into a database and managing them efficiently. It uses SQLite as the main database, HTML and CSS for the front end, and Python (Flask and Pandas) for the back end.</p> <p>The primary goal of this system is to handle large volumes of library data, particularly for the University of Caloocan City – College of Engineering. Key features include:</p> <ul style="list-style-type: none"> • A Home Page where users can easily import Excel files. • A View Data Page that displays the imported information in an organized format. • Built-in options to insert, delete, search, and edit records, ensuring smooth and efficient data management. 	
Methodology <p>We plan to implement a history log function using queues. The idea is to maintain a cap of five recent actions in the active history, while older entries are not permanently deleted. Instead, they will be stored in a queue, allowing users to review the complete history later on.</p>	
Materials and Equipment <ul style="list-style-type: none"> • Neobeam • Github • Pycharm • Git • Browser 	

Project output (work in progress)

**InvenSy**



Home/Import

View Data

Add Record

Batch Update

Export All to Excel

About

Books

Inventory Management

Welcome! Use the form below to import data from an Excel file (.xlsx). Importing will replace any existing data in the database (tables will be named after sheets).

Import Excel File

Select Excel File (.xlsx):


Choose File

No file chosen

Upload and Import

After importing, select a table from the dropdown in the navigation bar to view, search, add, edit, delete, or export its data.

Go to Data View

**InvenSy**






Table: Books

Add to This TableBatch Update

Search in Books...

Search

Id	Status	Accession Number	Section	Call Number	Title	Author	Year Of Publication	Other Authors	Other Contributors	Place Of Publication	Publisher	Edition	Series	Description		Isbn	S
														Pages	Illustration		
1	Unresolved	8-00000001	CIR	HF 5386 .T34 2013	The rules of work : a definitive code for personal success	Richard Templar	2013			England	Pearson Education			iii, 251 p. ; 20 cm.		9781447929543	S b E
2	Unresolved	8-00000002	FIL	GV 341 .P9847p 2019 c.1	Physical education 2 : fitness exercises	Michelle D. Punzalan	2019	Marilou C. Mondina		Manila	Mindshapers Co., Inc.			iii, 128 p. : ill. ; 23 cm.		9786214062072	P e a t i p f i S S S



Add New Inventory Record

Status:

Unresolved

Accession Number:



Section:

Call Number:

Title:

Author:

Year Of Publication:



Batch Update

Update multiple records in the **books** table at once.

Field to Update

Select a field

New Value

Record IDs (comma-separated)

Enter IDs manually above, or upload a file below.

Or Upload File with IDs

Choose File No file chosen

Upload a .txt file with one ID per line. If a file is uploaded, it will be used instead of the text area.

Update Records