# NAMES

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# SYSTEM DESCRIPTION

## PROBLEM STATEMENT

We all know that getting textbooks can be a problem, because its expensive and it is a race against time due to limited stock. The current system works on a paper system to keep track of student and textbook details.

Our system focuses on three problems the current system has:

* Paper System (this will be automated)
* Expensive textbooks
* Limited Stock

## SOLUTION

Our system aims to fix this problem by providing students with a platform (where a user uses the kiosk to decide on their purchase ) where they have a choice to whether buy the textbook or rent it out on a negotiated payment plan, they will discuss with the bookstore, these textbooks will be given or sold to us by senior student as they are not using them anymore. Our system will make sure that each student (that wants a hardcopy textbook) gets a textbook. The textbook is then return to the shop and the senior students receive a portion of the money, whenever the textbook is lost or returned damaged the student will receive a fine.

## SCOPE DEFINITION

* Maintain clients
* Maintain textbooks
* Receive textbook
* Sell Textbook
* Return textbook
* Rent a textbook
* Request Reports (this will be elaborate later)
* Backup of Data

# LOGIN PAGE

This event happens when a user logs onto our system. The system verifies the user’s password for existing clients and allows new clients to add a new profile.

**Graphical user interface, application

Description automatically generated**

# MAINTAIN CLIENTS

This event happens when the bookstore administrator wants to add a new client, change any clients’ details and remove clients.

Graphical user interface

Description automatically generated

# MAINTAIN TEXTBOOKS

This event happens when the bookstore administrator wants to add a new textbook, change its details like the status and availability and remove old version textbooks.

Graphical user interface

Description automatically generated

# RENT

This event happens when the bookstore receives a textbook from a senior student. The student can choose whether they want to sell us the textbook or give it to us for free.

Graphical user interface

Description automatically generated

# SELL TEXTBOOKS

This happens when we sell our textbooks to students. The student can choose whether they want to buy or rent it out.

Graphical user interface, application

Description automatically generated

# RETURN TEXTBOOKS

The student returns the textbook to us, on the condition that if they lost or damaged (to a certain extent) the textbook the student pays a fine. Apart from that the senior students receive a portion of the money.

Graphical user interface, application, table

Description automatically generated

# CHANGE OF STATUS

This event happens when the bookstore wants to change the status of the textbook, whenever it is damaged or lost.

# SQL

## Clients

A screenshot of a computer

Description automatically generated with medium confidence

## Textbooks Recieved

Text

Description automatically generated

## Rented Out

Text

Description automatically generated

## Returned

Text

Description automatically generated

## Textbooks Sold

Text

Description automatically generated

## Textbooks

Text

Description automatically generated

## Insert

Text

Description automatically generated

## Update

Graphical user interface, text, application, chat or text message

Description automatically generated

## Delete

Text

Description automatically generated

## Report

A picture containing logo

Description automatically generated

## Search

Graphical user interface, text

Description automatically generated

# Process Model

Diagram

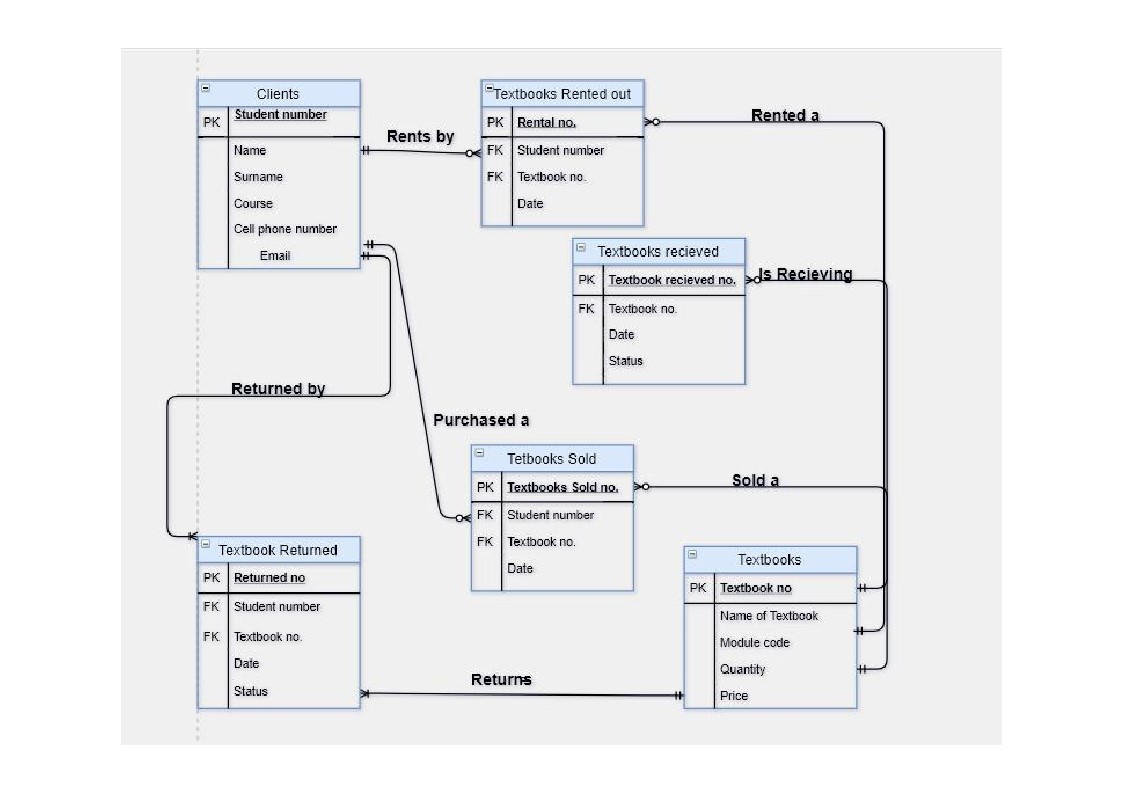
Description automatically generated

Diagram

Description automatically generated

# Diagram Description automatically generated

# DATA model



# ENTITIES

* Clients
  + Student number (PK)
  + Name
  + Surname
  + Course
  + Cell Phone Number
* Textbook
  + Book\_ID(PK)
  + Price
  + Textbook\_Name
  + Module code
  + Quantity
* Receive textbook
  + Book\_ID (FK)
  + Date
  + Set Price
  + Status
* Sell Textbook
  + Student number (FK)
  + Book\_ID (FK)
  + Date
* Return textbooks
  + Book\_ID(FK)
  + Date
  + Status
* Change Status
  + Book\_ID (FK)