**Programming Pattern Final Project**

**Initial page:**

A screenshot of a computer

Description automatically generated

**Login page:**

A screenshot of a computer

Description automatically generated

**If you don’t enter anything:**

A close-up of a sign

Description automatically generated

**Library Main Page:**

A screenshot of a computer

Description automatically generated

**Viewing catalog:**

A screenshot of a computer

Description automatically generated

**Adding Books:**

A screenshot of a computer

Description automatically generated

**If nothing is entered for price and quantity:**

A close-up of a stop sign

Description automatically generated

**If price and quantiy entered but nothing else:**

A close-up of a stop sign

Description automatically generated

**Adding a book successfully:**

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

**Issuing a book:**

A screenshot of a computer

Description automatically generated

**If nothing is inputed in the textfield:**

A close-up of a stop sign

Description automatically generated

**If inputted correctly:**

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated



Issued becomes 1

**Returning a book:**

A screenshot of a computer

Description automatically generated

**If nothing is entered:**

A close-up of a stop sign

Description automatically generated

**If everything is entered perfectly(matching student ids with book sn):**

A close-up of a blue button

Description automatically generated

A screenshot of a computer

Description automatically generated

**Removing a book:**

A screenshot of a computer

Description automatically generated

**If nothing is entered:**

A white rectangular sign with black text

Description automatically generated

**If only one thing is entered and not the other:**

A white rectangular sign with black text

Description automatically generated

**If done properly:**

A close-up of a computer screen

Description automatically generated

**Could also work like this:**

A screenshot of a computer

Description automatically generated

**Or all caps with no space**

A screenshot of a computer

Description automatically generated

**Or remove all button that remove everything:**

A screenshot of a computer

Description automatically generated

**Student gui:**

**Searching by name of the book, author and publisher.**

**Press the search button without the fields entered and it will show all books:**

A screenshot of a computer

Description automatically generated

**Searching by name of book or Author name or Publisher;**

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

**If entered wrong info or info not available :**

A screenshot of a computer

Description automatically generated

**Borrowing a book (same as library):**

A screenshot of a computer

Description automatically generated

**Returning book (same as library:**

A screenshot of a computer

Description automatically generated

A close-up of a blue button

Description automatically generated

**Test cases:**

A white background with black text

Description automatically generated