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Introduction

College book problems:

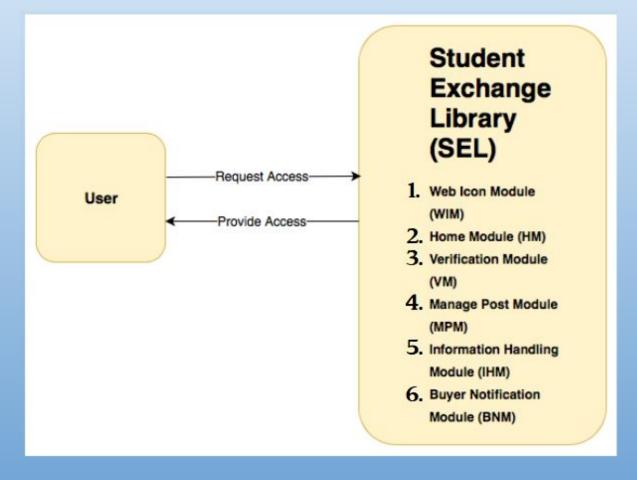
college books be like \$375.99 new \$375.00 used

- High cost to buy or rent.
- Selling or buying options are restricted to personal circle, big businesses, or unknown individuals.

SEL:

- SEL an online community for exchanging books.
- SEL is composed of only verified students and staff.
- SEL gives the power to sell or buy at a desired price.

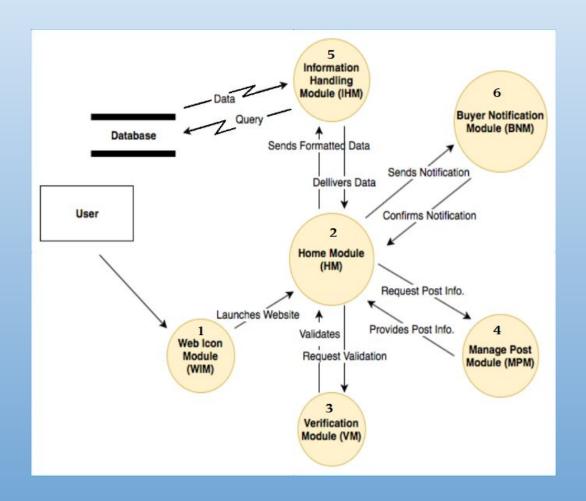
DFD-0



Core Design

- Users accesses web application through icon on desktop.
- Users are redirected to SEL Home Module.
- Once in Home Module users are restricted to limited access of the website.
- Granting full access to the other modules is accomplished by signing up for SEL services and verifying users Cal State LA email address.
- Once signed in to website users can post, browse books in detail with information of seller.

DFD-1



Web Icon Module (WIC)

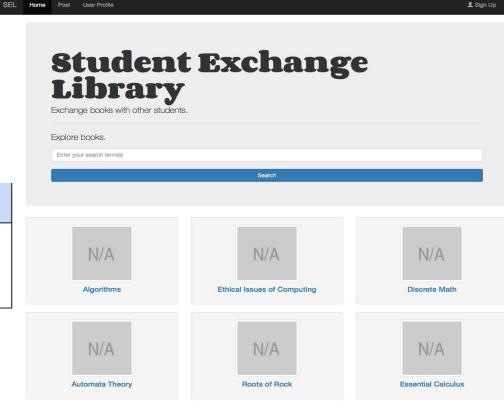
4.1	Web Icon Module (WIM)	
4.1.1	The WIM shall launch SEL web program.	



```
2  @echo off
3  start firefox.exe "cs3.calstatela.edu:8080/cs3220stu49/Home"
```

Home Module (HM)

4.2 Home Module (HM)
 4.2.1 The HM shall facilitate navigation to other pages on SEL by providing links to prioritized pages, recent books, and have a search box.

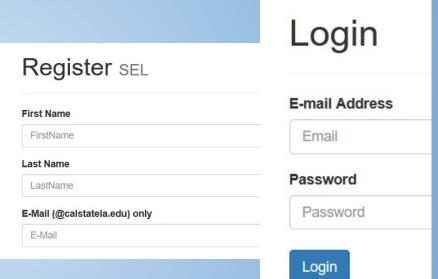


Home Module (Code)

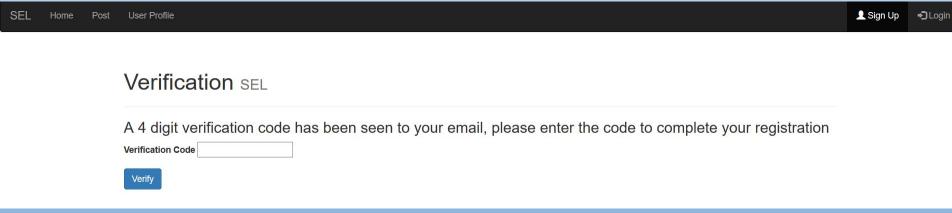
```
<nav class="navbar navbar-inverse">
15⊜
169
      <div class="container-fluid">
         <div class="navbar-header">
179
             <a class="navbar-brand" href="Home">SEL</a>
18
19
         </div>
200
         21
             <a href="Home">Home</a>
22
             <a href="Post">Post</a>
23
             <a href="Profile">User Profile</a>
24
         250
         <a href="SignUp"><span</pre>
26⊖
27
                   class="glyphicon glyphicon-user"></span> Sign Up</a>
280
             <a href="Login"><span class="glyphicon glyphicon-log-in"></span>
29
                   Login</a>
30
         31
      </div>
32
      </nav>
```

Verification Module

4.3	Verification Module (VM)	
4.3.1	The VM shall create a user profile.	Yes
4.3.2	The VM shall verify that the email provided is a valid Cal State LA email address.	Yes
4.3.3	The VM shall provide a standard login	Yes



Verification Module (VM)



Verification Module (code)

```
52
           // verify it contains @calstatela.edu
           boolean valid = email.toLowerCase().contains("@calstatela.edu");
53
54
           if (!valid) {
               response.sendRedirect("SignUp");
55
               return;
56
57
35
           // get parameters from Sign up form
36
           String code = (String) getServletContext().getAttribute("code");
37
           String codeEntered = request.getParameter("key");
           boolean match = code.equals(codeEntered);
38
39
           if(!match) {
40
                response.sendRedirect("SignUp");
41
42
                return;
43
```

Manage Post Module (MPM) add book

Post on SEL		
Title		
Ex. Analysis of Algothims		
Author's First Name		
Ex. Micheal		
Author's Last Name		
Ex. Cohem		
ISBN#		
Ex. 123-1-1234-1234-1		
Subject		
Ex. Computer Science		
Class		
Ex. Computer Science		
Price	4.4	Manage Post Module (MPM)
Ex. 22		
○ New	4.4.1	The MPM shall allow users to add books in SEL.
○ Good ○ Fair	8 (2008) (10)	
O Poor	4.4.2	The MPM shall allow users to delete their own books
Submit	4.4.2	in SEL.

Manage Post Module (MPM) add book (code)

```
// writing database query
//add book
// writing database query
//add book

String sql = "INSERT INTO `Books` (`BookID`, `Price`, `Title`, `ISBN`, `AuthorFirst`, `AuthorLast`, `Subject`, `Class`, `State`) VALUES (0, ?, ?, ?, ?, ?, ?, ?);";

c = DriverManager.getConnection(url, username, password);

PreparedStatement pstmt = c.prepareStatement(sql);
```

Manage Post Module (MPM) remove book

Books by John Doe

Title	Price	Post Date	Expiration Date	Delete
Algorithms	\$55.50	2018-05-02	2018-05-09	Delete
Ethical Issues of Computing	\$505.50	2018-05-02	2018-05-09	Delete
Discrete Math	\$55.50	2018-05-02	2018-05-09	Delete

Manage Post Module (MPM) remove book (code)

```
//delete book from database
String sql = "delete from Books where BookID = ?";
PreparedStatement pstmt = c.prepareStatement(sql);
pstmt.setInt(1, id);

pstmt.executeUpdate();
```

Information Handling Module (IHM)

Explore books.

Enter your search term(s)

Search

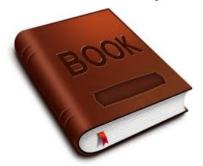
4.5	Information Handling Module (IHM)
4.5.1	The IHM shall provide the user with a search bar to filter search results.
4.5.2	The IHM shall provide the user with a description page for each book.

Information Handling Module (IHM) (code)

```
1269
        private boolean isMatch( Book book, String comparater ) {
127
            if ( comparater.trim().length() == 0 || comparater == null )
128
129
                return false;
130
            String query = comparater.toLowerCase();
131
132
133
                if ( book.getTitle().toLowerCase().contains( query ) )
134
                     return true;
135
                if ( book.getAuthorFirst().toLowerCase().contains( query ) )
136
                     return true;
137
                if ( book.getAuthorLast().toLowerCase().contains( query ) )
138
                     return true;
139
                if ( book.getSubject().toLowerCase().contains( query ) )
140
                     return true;
141
                if ( book.getCourse().toLowerCase().contains(query) )
142
                     return true;
143
                if ( book.getIsbn().equals(query) )
144
                     return true;
145
            return false;
146
147
```

Information Handling Module (IHM) description page

SEL - Description of Book



Ethical Issues of Computing

by: Mark

Posted by:



Username: john-doe

E-mail: john@doe.com

Buy

Details

Title	Ethical Issues of Computing
Author	Sarge,Mark
Subject	Computer Science
Class	CS-3801
Condition	new
ISBN#	123456789
Price	\$505.5

Information Handling Module (IHM) description (code)

Buyer Notification Module

Notification Sent SEL

An email has been sent to the seller to notify them you are interested in their book. You can also email them at:

jrojas44@calstatela.edu

4.6	Buyer Notification Module (BNM)
4.6.1	The BNM shall notify seller with buyers email address.

SEL-Buy Notice



sel.csula@gmail.com

Dear SEL user.

Someone is interested in buying your book,

Learning English by John Doe

Contact this email address to set up a place and time to meet up.

john@doe.com

Buyer Notification Module (Code)

Demonstration