RESPONSIVE MOBILE WEB APP

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PROJECT SCOPE

A database website for a library where students can search for books and academic papers. On mobile devices, it functions as an application, and on desktops it looks like a website.

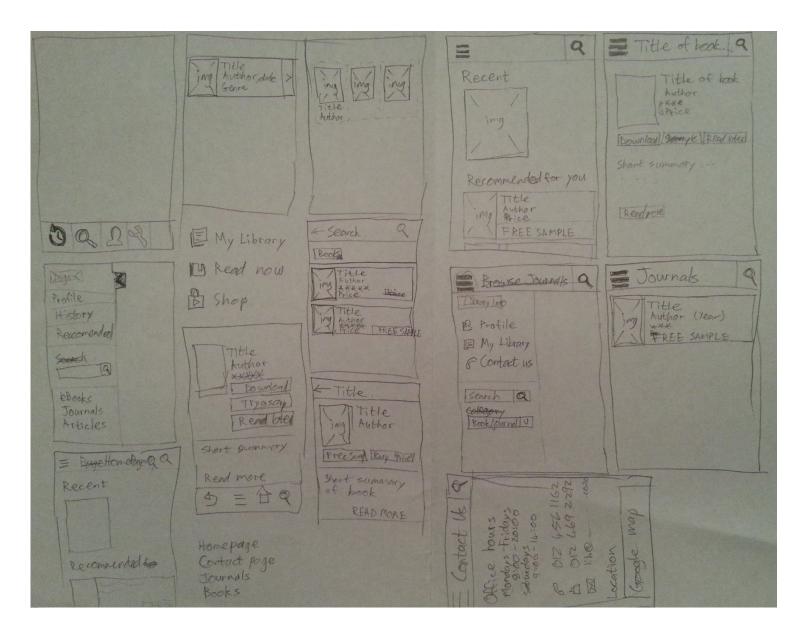
Languages, Technologies, Tools and Frameworks used

- * Bootstrap: Mobile application and fully responsive website
- * JSON web API: An API to get data from the database, filter data and inject the data into the HTML code of the website
- * AngularJS: To consume the API in the HTML code
- * PHP: To connect to a database and create the API

The design of the application is based on "Mobile first". It looks like a cellphone application, not a website, untill viewed on a desktop. A very clinical design style is implemented, focused on the functionality of the application.

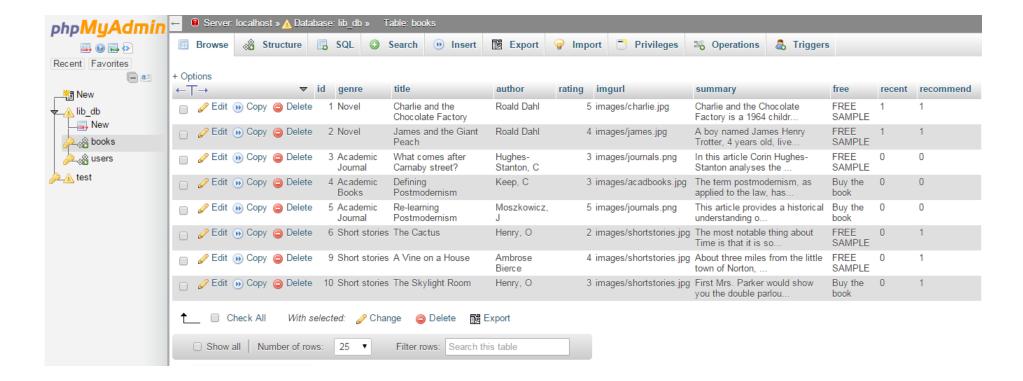


ORIGINAL AND ROUGH PLANNING





DATABASE





CODE SNIPLETS

.HTML

```
index.html ×
     History | 😭 💹 🕶 🖅 🖯 🔁 🚭 🔛 | 🚭 😏 | 🕥 |
       <!DOCTYPE html>
       <html ng-app="lib">
       <head>
           <title>Library</title>
           <meta charset="UTF-8">
           <meta name="viewport" content="width=device-width, initial-scale=1.0">
           <link rel="stylesheet" type="text/css" href="bootstrap/css/bootstrap.n</pre>
           <script src="bootstrap/js/jquery-1.11.2.min.js"></script>
           <script src="bootstrap/js/bootstrap.min.js"></script>
           <link rel="stylesheet" type="text/css" href="css/custom.css">
 10
 11
           <script src="scripts/angular.min.js" type="text/javascript"></script>
 12
           <script src="scripts/app.js" type="text/javascript"></script>
 13
       </head>
  Q
       <body ng-controller="HomeController as home">
  Q<sub>a</sub>
           <section ng-controller="PanelController as panel">
 16
 17
       <!-- NAVIGATION -->
 18
               <!-- Sidebar -->
 19
               <div id="wrapper" class="inactive">
 20
                   <div id="sidebar-wrapper">
 21
                       22
                            <a id="menu-toggle" href="#</pre>
 23
                       24
  Q<sub>0</sub>
                         ng-class='{ active:panel.isActive(0) }'><a ng-click=</pre>
  Q<sub>a</sub>
                         ng-class='{ active:panel.isActive(1) }'><a ng-click=</pre>
                         ng-class='{ active:panel.isActive(2) }'><a ng-click=</pre>
  Q<sub>0</sub>
                         ng-class='{ active:panel.isActive(3) }'><a ng-click=</pre>
                         ng-class='{ active:panel.isActive(4) }'><a ng-click=</pre>
 30
                       31
                   </div>
 32
                   <script>
 33
                     $("#menu-toggle").click(function(e) {
 34
                     e.preventDefault();
 35
                     $("#wrapper").toggleClass("active");
 36
                     });
 37
                  </script>
 38
               </div>
 39
 40
               <!-- Top-nav for XS and SM -->
               /dir class="hidden_md hidden_lg nawhan nawhan_inverse" vale="navig
```

```
78
       <!--0-Home page-->
79
               <div class="panel" ng-show="panel.isActive(0)">
 ‰
                    <div ng-controller="BooksController as books" id="content" class="</pre>
                        <div ng-controller="FilterController as filter">
 82
                            <div class="col-xs-12" style="padding-top: 20px;">
 83
                                 <h1>Recent</h1>
                                 <div ng-repeat="book in (books.info | orderBy: 'title')</pre>
 85
                                     <div class="col-xs-4 col-md-2" style="padding: 0; ]</pre>
 86
                                         <a ng-click="panel.changeTab(5)"><img ng-src="</pre>
 87
                                         <h2>{{book.title}}</h2>
 88
                                     </div>
                                 </div>
 89
 90
                            </div>
 91
                            <div class="col-xs-12" style="padding-top: 20px;">
 92
                                 <h1>Recommended for vou</h1>
 Q<sub>a</sub>
                                 <div ng-repeat="book in (books.info | orderBy: 'title')</pre>
 94
                                     <div class="col-xs-3" style="padding: 0;">
 95
                                         <a ng-click="panel.changeTab(5)"><img ng-src="</pre>
96
                                     2/dim>
 97
                                     <div class="col-xs-9">
 98
                                         <a ng-click="panel.changeTab(5)"><h1>{{book.tit
99
                                         h2>{\{book.author\}}</h2>
100
                                         {p>{{book.rating}} / 5
101
                                         <a ng-click="panel.changeTab(5)">{{book.free}}}
102
103
                                 </div>
104
                            </div>
105
                        </div>
                    </div>
106
107
                </div>
108
       <!--/0-Home page-->
110
       <!--1-My Library-->
111
               <div class="panel" ng-show="panel.isActive(1)">
 ‰
                    <div ng-controller="BooksController as books" id="content" class="</pre>
 ‱
                        <div ng-controller="FilterController as filter">
114
                            <div class="col-xs-12" style="padding-top: 20px;">
115
                                 <h1>Recent</h1>
                                 <div ng-repeat="book in (books.info | orderBy: 'title')</pre>
117
                                     <div class="col-xs-3" style="padding: 0;">
118
                                         <a ng-click="panel.changeTab(5)"><img ng-src="</pre>
119
                                     </div>
                                     <div class="col-xs-9">
120
121
                                         <a ng-click="panel.changeTab(5)"><h1>{{book.tit
122
                                         <h2>{{book.author}}</h2>
```



CODE SNIPLETS

DBCON.PHP

```
15
              public $recent;
16
              public $recommend;
17
18
19
          require 'Slim/Slim.php';
          \Slim\Slim::registerAutoloader();
20
21
22
          $app = new \Slim\Slim();
23
24
$app->get('/book', function () {
26
27
              //DATABASE - mysql
28
              $bookDBconnect = mysqli connect("localhost", "root", "mysql", "lib db");
29
              if (mysqli connect errno()) {
30
                  echo "Failed to connect to". mysqli connect error();
31
32
              $result = mysqli query($bookDBconnect,"SELECT * FROM books");
33
34
              $results = array();
35
              while ($row = mysqli_fetch_array($result))
36
37
38
                  $mybook = new Book;
39
40
                  $mybook->id = $row['id'];
41
                  $mvbook->genre = $row['genre'];
42
                  $mybook->title = $row['title'];
43
                  $mybook->author = $row['author'];
44
                  $mybook->rating = $row['rating'];
45
                  $mybook->imgurl = $row['imgurl'];
46
                  $mybook->summary = $row['summary'];
47
                  $mybook->free = $row['free'];
48
                  $mybook->recent = $row['recent'];
49
                  $mybook->recommend = $row['recommend'];
50
                  //echo json encode($mybook);
51
52
                  $results[] = $mybook;
53
54
              echo json encode ($results);
55
              // CLOSE THE DATABASE!
56
57
              mysqli close($bookDBconnect);
58
          });
59
60
          $app->run();
```

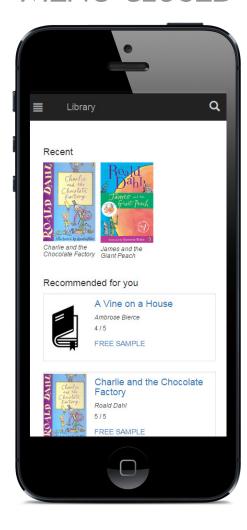
APP.JS

```
app.controller('BooksController', ["$http", function($http)
21
22
              var storage = this;
23
24
              $http.get("http://localhost/idvProject6/scripts/dbcon.php/book").
25
26
                  storage.info = data;
27
              });
28
29
          }]);
30
31
          app.controller('FilterController', function()
32
33
              this.filter = "";
34
35
              this.isGenre = function(genre) {
36
                  if (this.filter === "All")
37
38
                      return this.filter:
39
40
                  return this.filter === genre;
41
              1:
42
43
              this.recentF = "1";
44
              this.isRecent = function(recent) {
45
                  if (this.recentF !== "1")
47
                      return this.recentF;
48
49
                  return this.recentF === recent;
50
              };
51
52
              this.recommendF = "1";
53
              this.isRecommend = function(recommend) {
54
                  if (this.recommendF !== "1")
55
56
                      return this.recommendF;
57
                  return this.recommendF === recommend;
58
59
              };
60
          });
```

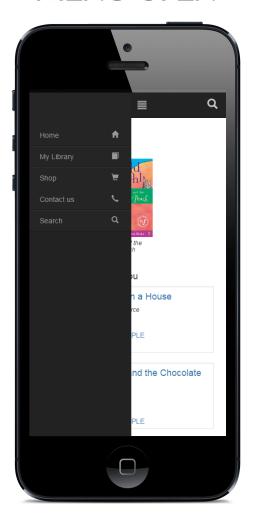


FINAL DESIGN - MOBILE (IN APPLICATION)

MENU CLOSED



MENU OPEN



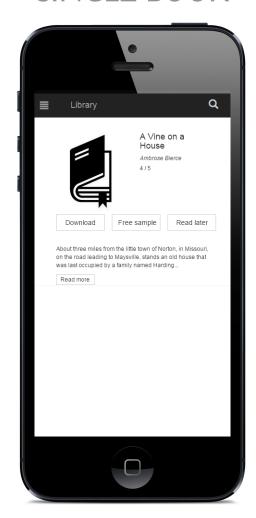


FINAL DESIGN - MOBILE (IN APPLICATION)

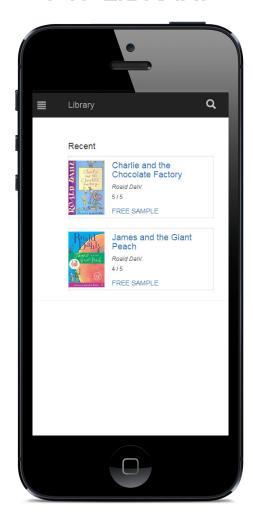
SHOP



SINGLE BOOK

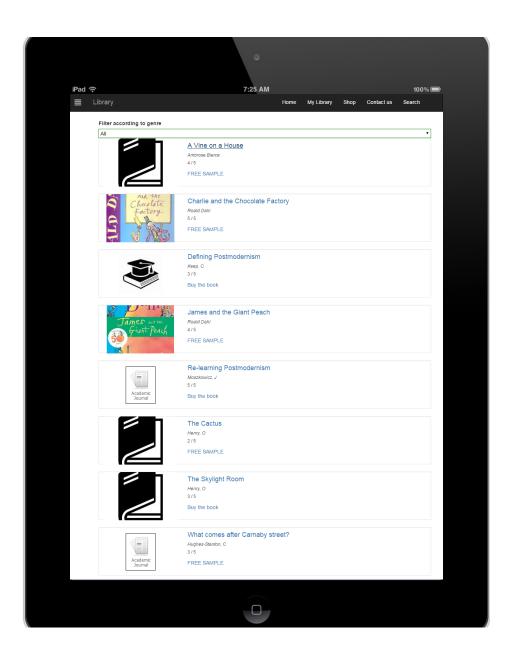


MY LIBRARY





FINAL DESIGN - TABLET (IN APPLICATION)





FINAL DESIGN - DESKTOP (IN APPLICATION)

