



Informatics Institute of Technology

Department of Computing

Module: 6COSC005W – Advanced Server-Side Web Programming

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1. Models

1.1 User.php

```
* Cparam $username String Username of the user

* Cparam $password String Password of the user

* Cparam $name String name of the user

* Cparam $listName String name of the wish list
public function register($username, $password, $name, $listName,
      $data = array('username' => $username, 'password' => $password, 'name' =>
       return ($this->db->affected rows() != 1) ? false : true;
 * Gets the row containing username and password of user.

* @param $username String Username of the admin

* @return bool|ArrayObject Returns the result array if found or false if not
            return false;
  * Gets the user row containing userId of the user.
* Gparam $userId integer id of the user
```

```
*/
public function getUser($userId) {
    $this->db->where('userId', $userId);
    $result = $this->db->get('user');
    // check the number of rows in the result
    if ($result->num_rows() !== 1) {
        return false;
    } else {
        return $result->result();
    }
}

/**
    * Checks whether a given item title is available under a given user.
    * @param $username String username of the user
    * @return bool|ArrayObject Returns the result array if found or false if not found.
    */
    public function isUserAvailable($username)
    {
        $this->db->select('userId');
        $this->db->where('username', $username);
        $result = $this->db->get('user');
        // check the number of rows in the result
        return $result->num_rows() === 1 ? $result->result() : false;
}
```

1.2 Item.php

```
return false;
         return $result->result();
 * @param $title String title of the item
* @param $userId integer id of the user
public function isItemTitleAvailableForUser($title, $userId)
    return $result->num rows() === 0 ? false : true;
public function addItem($itemConfigArray)
 * Delete an item from a users's wish list.

* @param $itemId integer id of the item to be deleted

* @return bool Returns true if result is successful or false if not found.
public function deleteItem($itemId)
     $this->db->where('itemId', $itemId);
     return ($this->db->affected_rows() !== 1) ? false : true;
 * Delete an item from a users's wish list.

* @param $itemId integer Id of the item to be updates

* @param $itemUpdateConfigArray ArrayObject Details of the item to be updated
public function updateItem($itemId, $itemUpdateConfigArray)
     return ($this->db->affected rows() !== 1) ? false : true;
```

2. Controllers

2.1 UserController.php

```
use Restserver\Libraries\REST Controller;
require APPPATH . 'libraries/REST_Controller.php';
require APPPATH . 'libraries/Format.php';
class UserController extends REST Controller
    public function construct()
        parent::__construct();
    public function index_get()
    public function user_get() {
    $username = $this->get ( 'username' );
    $password = $this->get ( 'password' );
             $this->response (array('isValid' => true, 'result' => $result),
$this->response(array('isValid' => false),
    public function user_post() {
            $this->response(array('isValid' => true),
```

```
REST_Controller::HTTP_BAD_REQUEST);
}
}

/**

* This REST api method will called when a user request a list sharing link.

*/
public function shareLink post() {
    Susername = Sthis->post( 'username');
    Sthis->load->model('User');
    Sresult = $this->User->isUserAvailable($username);
    if($result) {
        $userid = $result[0]->userId;
        $generatedLink =

"http://localhost/wishList/index.php/showlist/".$userId;
        $this->response(array('isValid' => true, 'link' => $generatedLink),

REST_Controller::HTTP_CREATED);
    } else {
        $this->response(array('isValid' => false),

REST_Controller::HTTP_NO_CONTENT);
    }
}

/**

* This REST api method will called when post is called for resource logout.

* This methods destroys the session and send response back to client

*/
function logout_post() {
        $this->session->unset_userdata('userId');
        $this->session->unset_userdata('username');
        $this->session->unset_userdata('username');
        $this->response (array('result' => "log out successfully"),

REST_Controller::HTTP_OK);
}
}

REST_Controller::HTTP_OK);
}
}
```

2.2 ItemController.php

```
public function index get()
public function items get()
       $this->response($result, REST Controller::HTTP NO CONTENT);
 * Sends isValid as false if not successful.

* @param $itemId integer id of the item to be deleted
public function items delete($itemId)
        $this->response (array('isValid' => true), REST Controller::HTTP OK);
public function items put($itemId)
        $this->response (array('isValid' => true), REST Controller::HTTP OK);
    } else {
        $this->response(array('isValid' => false),
public function items post()
```

```
$url = $this->post('url');
     $result = $this->Item->addItem(array('title' => $title, 'url' => $url,
          $this->response (array('isValid' => true), REST Controller::HTTP OK);
 * Sends isValid as false if not successful.

* @param $userId integer id of the user who owns the wish list
public function showlist get($userId)
     $userDetails = $this->User->getUser($userId);
          $data['name'] = $userDetails[0]->name;
$data['listName'] = $userDetails[0]->listName;
$data['listDescription'] = $userDetails[0]->listDescription;
public function validateItemTitle()
```

3. Views

3.1 HomeView.php

```
<link rel="shortcut icon" type="image/x-icon" href="<?php echo base url();</pre>
GJzZqFGwb1QTTN6wy59ffF1BuGJpLSa9DkKMp0DqiMDm4iYMj70qZWKYbI706tWS"
   <link rel="stylesheet" href="<?php echo base url(); ?>css/style.css">
   <script src="<?php echo base_url(); ?>js/underscore-min.js"></script>
   <script src="<?php echo base_url(); ?>js/backbone-min.js"></script>
       <a href="https://www.raveen.me"> Raveen S Rathnayake</a>. All Right
```

```
</form>
        </div>
        </div>
placeholder="Title" required>
```

```
<div class="form-group">
        </form>
</div>
</div>
            <div class="form-group form-inline">
```

```
<label>Price(LKR):&emsp;</label>
</div>
<a class="btn btn-primary" href="<?php echo site url(); ?>"
    </form>
    </div>
                     </div>
                 <div class="form-group">
                     <label for="name">Name*</label>
<input type="text" class="form-control" id="name"</pre>
                     <label for="listName">List Name*</label>
<input type="text" class="form-control" id="listName"</pre>
```

3.2 VisitorListView.php

```
<link rel="shortcut icon" type="image/x-icon" href="<?php echo base url();</pre>
            <h2><?php echo $name; ?>'s <?php echo $listName; ?> Wish List</h2>
```

```
<?php echo $listDescription; ?>
            <?php if(isset($items)) {</pre>
toggle="collapse" data-target="#collapse<?php echo $item->itemId; ?>" aria-
expanded="true" aria-controls="collapseOne">
                              <?php echo $item->title; ?>
                          </button>
                 <div id="collapse<?php echo $item->itemId; ?>" class="collapse"
                               <label><?php echo $item->title; ?></label>
                          <div class="form-group form-inline">
                              <label><?php echo $item->url; ?></label>
                              <label><?php echo $item->price; ?></label>
                              <label><?php echo $item->priority; ?></label>
             <?php } ?>
        </div>
        <div class="col-lq-3 col-md-3 col-sm-5 col-xs-12"></div>
    </div>
    </div>
```

4. JavaScript Files

4.1 modelsAndUser.js

```
rar nextCollapseCardId = 1;
           this.listenTo(this.model, 'change', this.render);
this.listenTo(this.model, 'destroy', this.remove);
           var priority = this.input[3].value;
if (title !== "" && url !== "" && price !== "" && priority !== "") {
```

```
price: price
        updateAfterEnter: function(e) {
   if (e.keyCode == 13) this.close();
var UserLoginView = Backbone.View.extend({
                this.listenTo(itemList, "add", this.addOne);
this.listenTo(itemList, "change", this.updateItem);
this.listenTo(itemList, "sort", this.addAll);
                         // using underscore compile the #loginTemplate template
var template = _.template($("#loginTemplate").html(), {});
// load compiled HTML template into the backbone "el"
                         // using underscore compile the #loggedTemplate template
var template = _.template($("#loggedTemplate").html(), {});
// load compiled HTML template into the backbone "el"
       },
/* Login event */
```

```
success: function (user)
           console.log(error);
```

```
$.ajax({
     var newTitle = $("#add-title");
var newUrl = $("#add-url");
var newPrice = $("#add-price");
},
/* Load register view */
loadRegister: function (event) {
   var registerView = new UserRegisterView({el: $("#body-div")});
      register View. render();
```

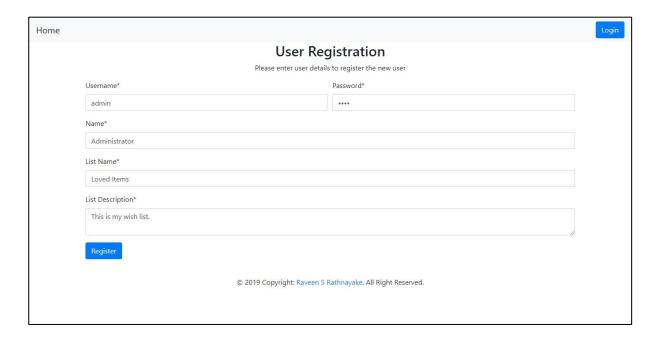
```
this.$el.empty();
```

5. Screen Shots

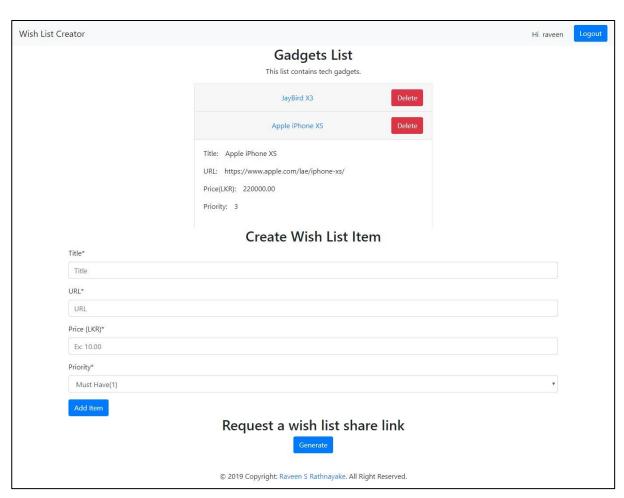
5.1 Login



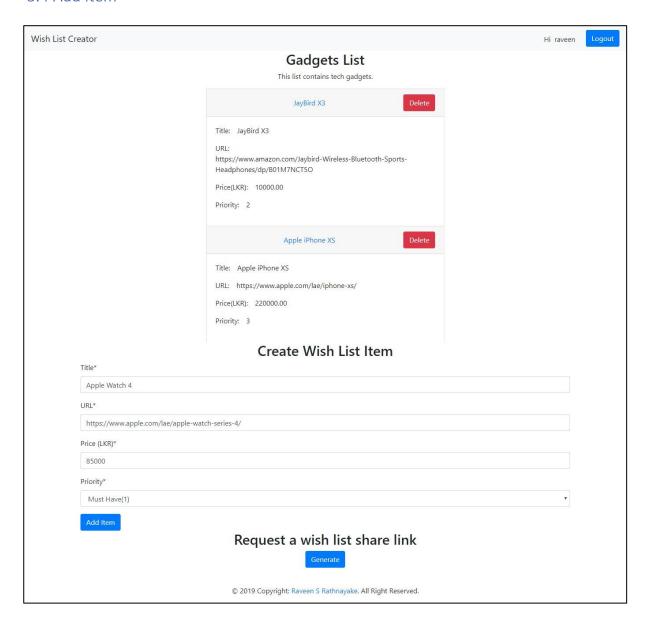
5.2 Register



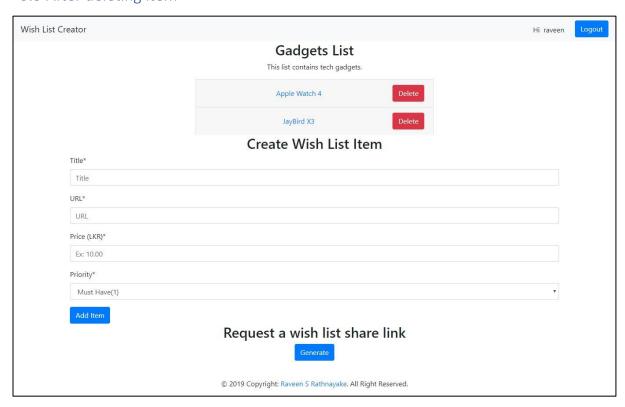
5.3 Wish List



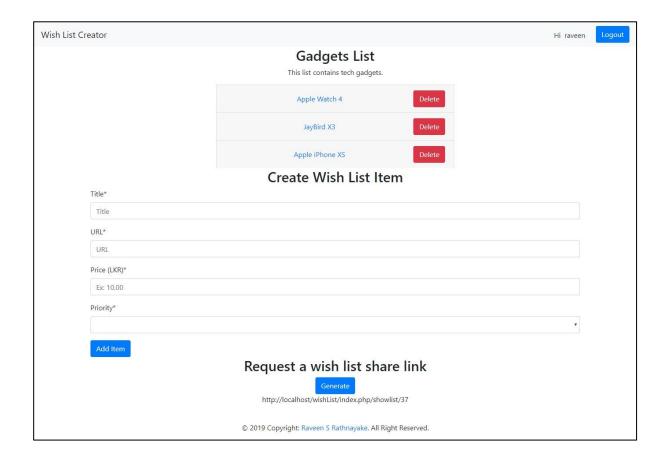
5.4 Add Item



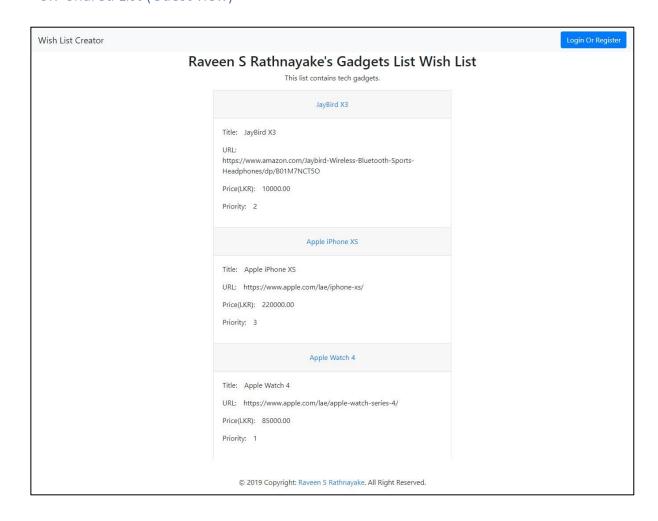
5.5 After deleting item



5.6 Generate link to share the list



5.7 Shared List (Guest view)



6. SQL Code

```
-- phpMyAdmin SQL Dump
-- version 4.8.3
-- https://www.phpmyadmin.net/
-- Host: 127.0.0.1
-- Generation Time: Jan 24, 2019 at 10:58 AM
-- Server version: 10.1.36-MariaDB
-- PHP Version: 7.2.10
SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
SET AUTOCOMMIT = 0;
START TRANSACTION;
SET time_zone = "+00:00";
/*!40101 SET @OLD CHARACTER SET CLIENT=@@CHARACTER SET CLIENT */;
/*!40101 SET @OLD CHARACTER SET RESULTS=@@CHARACTER SET RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8mb4 */;
CREATE TABLE `item` (
  `itemId` int(50) NOT NULL,
 `title` varchar(255) NOT NULL,
 `url` text NOT NULL,
 `price` decimal(10,2) NOT NULL,
  `priority` int(1) NOT NULL,
  `userId` int(50) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
-- Table structure for table `user`
CREATE TABLE `user` (
```

```
`userId` int(50) NOT NULL,
  `username` varchar(255) NOT NULL,
  `password` text NOT NULL,
 `name` varchar(255) NOT NULL,
  `listName` varchar(255) NOT NULL,
 `listDescription` text NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
-- Indexes for dumped tables
ALTER TABLE `item`
 ADD PRIMARY KEY (`itemId`),
 ADD UNIQUE KEY `UK_1` (`title`,`userId`),
 ADD KEY `FK_CK_1` (`userId`);
-- Indexes for table `user`
ALTER TABLE `user`
 ADD PRIMARY KEY (`userId`),
 ADD UNIQUE KEY `username` (`username`);
-- AUTO_INCREMENT for dumped tables
-- AUTO_INCREMENT for table `item`
ALTER TABLE `item`
 MODIFY `itemId` int(50) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=21;
-- AUTO_INCREMENT for table `user`
ALTER TABLE `user`
 MODIFY `userId` int(50) NOT NULL AUTO_INCREMENT, AUTO INCREMENT=37;
-- Constraints for dumped tables
```

```
-- Constraints for table `item`
--
ALTER TABLE `item`
   ADD CONSTRAINT `FK_CK_1` FOREIGN KEY (`userId`) REFERENCES `user`
(`userId`);
COMMIT;

/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
```