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| GMS Studio (Group 5) |
| Software Test Report |
| V2.0 |

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# Overview

# This test report is a test report for the Gymnasium Management System project. The purpose of this test report is to summarize the tests during the test phase and analyze the test results, and describe whether the system meets the requirements. Expected reference personnel include users, the stakeholders and the developers of the system and the Supervisor of Software Development Workshop II’s Group Project.

# Test Environment

Related software version:

* Bootstrap 4.1
* Python 3.6
* Django 2.0
* MySQL/Maria DB

Testing on latest stable version of Google Chrome browser (66.0.3359.117 (64-bit) or later) and Mozilla Firefox browser (59.0.2 (64-bit) or later), no longer support IE 8 / IE 9.

Using HTML5 Standard.

Using UTF-8 encoding Standard.

# Test Procedure

* Functional Test
* Hyperlink Test
* User permission validation Test
* Exception Handling Test

# Test Detail

## Functional Test

Log-in:

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| --- | --- | --- | --- |
| Step | Behavior | Expected Outcome | Results |
| 1 | Input the correct username and password | N/A | N/A |
| 2 | Click the login button | Log in successfully and enter the dashboard | PASS |

## Check-in:

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Behavior | Expected Outcome | Results |
| 1 | Enter the user ID | Show the user’s information and valid the check-in button, if no such user, show an error message | PASS |
| 2 | Click the check-in button | Quota of the user will deduct 1, show a message box with remain quota | PASS |

User avatar:

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Behavior | Expected Outcome | Results |
| 1 | Click the user avatar | See the personal information button and exit login button | PASS |
| 2 | Click the profile button | Visit the personal information | PASS |
| 3 | Click the log out button | Log out the current account and visit dashboard page | PASS |

Recharge:

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Behavior | Expected Outcome | Results |
| 1 | Input user ID, recharge quota and select payment method | Show the user’s information | PASS |
| 2 | Click the verified button | Valid the submit button, show a message to ask user to click submit button | PASS |
| 3 | Click the submit button | Show a payment message with QR code | PASS |
| 4 | Click the finish button | Add quota to the user’s member card, increase profit in the balance page | PASS |

Make appointment:

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Behavior | Expected Outcome | Results |
| 1 | Select the coach | N/A | N/A |
| 2 | Input the date and hour | If not correct, change the color of the input box into red | PASS |
| 3 | Click the submit button | Jump to the record page and show his appointment history | PASS |

Record:

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Behavior | Expected Outcome | Results |
| 1 | Once visit the record page | Show all record to developer and staffs; show record to related member and coach | PASS |

Balance report:

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Behavior | Expected Outcome | Results |
| 1 | Once visit the balance page | Show changing logs or status of some items in the form of numbers, and the page creation time will be displayed in the upper right corner | PASS |

Create member:

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Behavior | Expected Outcome | Results |
| 1 | Input username, email, first name, last name, password, the second time to enter the password | N/A | N/A |
| 2 | Click the submit button | Show messages with user’s information( including member ID) and saying that the user has been created | PASS |

## Hyperlink test

|  |  |  |  |
| --- | --- | --- | --- |
| **Login Page** | | | |
| # | Link/Button Name | Expected URL/Expected Function | Results |
| 1 | Login | /login/check/ | PASS |
| **Dashboard Page** | | | |
| # | Link/Button Name | Expected URL/Expected Function | Results |
| 1 | User Avatar | Dropdown panel | PASS |
| 2 | Check-in | /operation/ | PASS |
| 3 | Recharge | /operation/recharge/ | PASS |
| 4 | Record | /appointment/ | PASS |
| 5 | New | /appointment/new/ | PASS |
| 6 | Balance report | /report/ | PASS |
| 7 | Create member | /create/member/ | PASS |
| 8 | Create coach | /create/coach/ | PASS |
| **Check in Page** | | | |
| # | Link/Button Name | Expected URL/Expected Function | Results |
| 1 | Check in | /operation/ | PASS |
| 2 | Recharge | /operation/recharge/ | PASS |
| 3 | Operation | Dropdown panel | PASS |
| 4 | Appointment | Dropdown panel | PASS |
| 5 | Report/setting | Dropdown panel | PASS |
| 6 | Create user | Dropdown panel | PASS |
| 7 | Manage page | / admin/ | PASS |
| **Recharge Page** | | | |
| # | Link/Button Name | Expected URL/Expected Function | Results |
| 1 | Check in | /operation/ | PASS |
| 2 | Recharge | /operation/recharge/ | PASS |
| 3 | Operation | Dropdown panel | PASS |
| 4 | Appointment | Dropdown panel | PASS |
| 5 | Report/setting | Dropdown panel | PASS |
| 6 | Create user | Dropdown panel | PASS |
| 7 | Manage page | / admin/ | PASS |
| **Record Page** | | | |
| # | Link/Button Name | Expected URL/Expected Function | Results |
| 1 | Record | /appointment/ | PASS |
| 2 | New | /appointment/new | PASS |
| 3 | Operation | Dropdown panel | PASS |
| 4 | Appointment | Dropdown panel | PASS |
| 5 | Report/setting | Dropdown panel | PASS |
| 6 | Create user | Dropdown panel | PASS |
| 7 | Manage page | / admin/ | PASS |
| **New Appointment Page** | | | |
| # | Link/Button Name | Expected URL/Expected Function | Results |
| 1 | Record | /appointment/ | PASS |
| 2 | New | /appointment/new | PASS |
| 3 | Operation | Dropdown panel | PASS |
| 4 | Appointment | Dropdown panel | PASS |
| 5 | Report/setting | Dropdown panel | PASS |
| 6 | Create user | Dropdown panel | PASS |
| 7 | Manage page | / admin/ | PASS |
| **Balance Report Page** | | | |
| # | Link/Button Name | Expected URL/Expected Function | Results |
| 1 | Operation | Dropdown panel | PASS |
| 2 | Appointment | Dropdown panel | PASS |
| 3 | Report/setting | Dropdown panel | PASS |
| 4 | Create user | Dropdown panel | PASS |
| 5 | Manage page | / admin/ | PASS |
| **Create Member Page** | | | |
| # | Link/Button Name | Expected URL/Expected Function | Results |
| 1 | Member | /create/member | PASS |
| 2 | Coach | /create/coach | PASS |
| 3 | New | /appointment/new | PASS |
| 4 | Operation | Dropdown panel | PASS |
| 5 | Appointment | Dropdown panel | PASS |
| 6 | Report/setting | Dropdown panel | PASS |
| 7 | Create user | Dropdown panel | PASS |
| 8 | Manage page | / admin/ | PASS |
| **Create Coach Page** | | | |
| # | Link/Button Name | Expected URL/Expected Function | Results |
| 1 | Member | /create/member | PASS |
| 2 | Coach | /create/coach | PASS |
| 3 | New | /appointment/new | PASS |
| 4 | Operation | Dropdown panel | PASS |
| 5 | Appointment | Dropdown panel | PASS |
| 6 | Report/setting | Dropdown panel | PASS |
| 7 | Create user | Dropdown panel | PASS |
| 8 | Manage page | / admin/ | PASS |

## User Permission Validation test

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| **Developer** | | | |
| **#** | **Function** | **Permission** | **Results** |
| 1 | Login | Allow | PASS |
| 2 | Operation/Check-in | Allow | PASS |
| 3 | Operation/recharge | Allow | PASS |
| 4 | Appointment/new | Allow | PASS |
| 5 | Appointment/record | Allow | PASS |
| 6 | Balance report | Allow | PASS |
| 7 | Create/create member | Allow | PASS |
| 8 | Create/Create Coach | Allow | PASS |
| 9 | Manage page | Allow | PASS |
| **Staff** | | | |
| **#** | **Function** | **Permission** | **Results** |
| 1 | Login | Allow | PASS |
| 2 | Operation/Check-in | Allow | PASS |
| 3 | Operation/recharge | Allow | PASS |
| 4 | Appointment/new | Allow | PASS |
| 5 | Appointment/record | Allow | PASS |
| 6 | Balance report | Allow | PASS |
| 7 | Create/create member | Allow | PASS |
| 8 | Create/Create Coach | Allow | PASS |
| 9 | Manage page | Not Allowed | PASS |
| **Member** | | | |
| **#** | **Function** | **Permission** | **Results** |
| 1 | Login | Allow | PASS |
| 2 | Operation/Check-in | Not Allowed | PASS |
| 3 | Operation/recharge | Allow | PASS |
| 4 | Appointment/new | Allow | PASS |
| 5 | Appointment/record | Allow | PASS |
| 6 | Balance report | Not Allowed | PASS |
| 7 | Create/create member | Not Allowed | PASS |
| 8 | Create/Create Coach | Not Allowed | PASS |
| 9 | Manage page | Not Allowed | PASS |
| **Coach** | | | |
| **#** | **Function** | **Permission** | **Results** |
| 1 | Login | Allow | PASS |
| 2 | Operation/Check-in | Not Allowed | PASS |
| 3 | Operation/recharge | Not Allowed | PASS |
| 4 | Appointment/new | Not Allowed | PASS |
| 5 | Appointment/record | Allow | PASS |
| 6 | Balance report | Not Allowed | PASS |
| 7 | Create/create member | Not Allowed | PASS |
| 8 | Create/Create Coach | Not Allowed | PASS |
| 9 | Manage page | Not Allowed | PASS |

## Exception Handling Test

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| --- | --- | --- | --- |
| # | Exception details | Expected behavior | Results |
| 1 | Login an account which has not signed up | Show an error message | PASS |
| 2 | Login an account with wrong password | Show an error message | PASS |
| 3 | Check in an account who doesn’t exist | Show an error message. | PASS |
| 4 | Recharge for an account which does not exist | Show an error message and clear the ID text field | PASS |
| 5 | Recharge for an account with negative quota | Show an error message, change the quota to a default value | PASS |
| 6 | Make an appointment with whom has been appointed with other people | Change the date box color to red, show an error message and deactivate the submit button | PASS |
| 7 | Make an appointment in the past date | Change the date box color to red, show an error message and deactivate the submit button | PASS |
| 8 | Create account while the username exist in the database | Change the date box color to red, showing that the username already exists | PASS |
| 8 | Create account while the email address exist in the database | Change the date box color to red, showing that the email address already exists | PASS |