2．测试基本内容

2.1测试要点

2.2 测试内容

2.3 测试环境

2.4 测试时间

3. 测试规范bug

4.Function testing

4.1Testing items：

User section, Administrator section…(之后根据我们写了啥来添加)

User section：Register, Login, Information Management, Facility Booking

Administrator Section：Login, Information Management, Facilities Management, Booking Management

4.2 Testing Strategy

In order to ensure every function works normally, tester used equivalence partitioning testing method to choose effective data and ineffective data. For example, the data covers normal operation, boundary conditions, and errors. Then, testers predicted the output and results of the interaction. Finally, testers compared and analyzed the result of the actual test with the prediction to improve the system.

具体的测试我的想法

根据之前的function来写，actor都有的就放在一起写，没有的就分开写。

4.2.1 Registration ( FR1.1)

|  |  |  |  |
| --- | --- | --- | --- |
| User | | | |
| Test items | Test ID | Test point | Prediction |
| Registration | 1 | Use email or user Id which is already existed to register. | Show alert |
| 2 | The email address is not valid | Show alert |
| 3 | User ID/Email/Password is empty. | Show alert |
| 4 | Password is 5 length. | Show alert |
| 5 | Password is 21 length. | Show alert |
| 6 | Password includes special characters | Show alert |
| 7 | Password validation is empty | Show alert |
| 8 | Password validation is not same with the original password. | Show alert |
| 9 | Password validation is same with the original password. | pass |
| 10 | User ID and email is valid and unique | pass |
| 11 | Password is 6-20 length and only includes letters and number. | pass |

Test recording report

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | Error Message | Test Results | Bug Classification | Date |
| 1 | NO | Show alert |  | 2019.05.20 |
| 2 | NO | Show alert |  | 2019.05.20 |
| 3 | NO | Show alert |  | 2019.05.20 |
| 4 | NO | Show alert |  | 2019.05.20 |
| 5 | NO | Show alert |  | 2019.05.20 |
| 6 | NO | Show alert |  | 2019.05.20 |
| 7 | NO | Show alert |  | 2019.05.20 |
| 8 | NO | Show alert |  | 2019.05.20 |
| 9 | NO | pass |  | 2019.05.20 |
| 10 | NO | pass |  | 2019.05.20 |
| 11 | NO | pass |  | 2019.05.20 |

4.2.2 Login (FR1.2)

|  |  |  |  |
| --- | --- | --- | --- |
| User/Admin | | | |
| Test items | Test ID | Test point | Prediction |
| Login | 1 | User/Admin existed account and right password to login. | Login successfully. |
| 2 | Wrong password. | Show alert |
| 3 | Use nonexistent account to login. | Show alert |
| 4 | Password is empty. | Show alert |
| 5 | User/Admin ID/Email is empty. | Show alert |

Test recording report

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | Error Message | Test Results | Bug Classification | Date |
| 1 | NO | Login successfully. |  | 2019.05.20 |
| 2 | NO | Show alert |  | 2019.05.20 |
| 3 | NO | Show alert |  | 2019.05.20 |
| 4 | NO | Show alert |  | 2019.05.20 |
| 5 | NO | Show alert |  | 2019.05.20 |

4.2.3Account Recovery (FR1.3)

Test prediction scheme

|  |  |  |  |
| --- | --- | --- | --- |
| User/Admin | | | |
| Test items | Test ID | Test point | Prediction |
| Account Recovery | 1 | Input existed User/Admin ID or Email. | Receive email to reset password |
| 2 | Input nonexistent User/Admin ID or Email. | Show alert |

Test recording report

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | Error Message | Test Results | Bug Classification | Date |
| 1 | NO | Receive email to reset password |  | 2019.05.20 |
| 2 | NO | Show alert |  | 2019.05.20 |

4.2.4 Account Information Update (FR1.4)

Test prediction scheme

|  |  |  |  |
| --- | --- | --- | --- |
| User/Admin | | | |
| Test items | Test ID | Test point | Prediction |
| Edit(User/Admin) | 1 | Viewing user information correctly | Yes |
| 2 | Fill all information in the form | Yes |
| 3 | Name is empty | Cannot be modified |
| 4 | Tel is empty | Cannot be modified |
| 5 | Checking for updates immediately | Yes |
| Delete (Admin) | 6 | Cannot see the user again after deleting | Yes |

Test recording report

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | Error Message | Test Results | Bug Classification | Date |
| 1 | NO | Pass |  | 2019-05-13 |
| 2 | NO | Pass |  | 2019-05-13 |
| 3 | NO | Fail |  | 2019-05-13 |
| 4 | NO | Fail |  | 2019-05-13 |
| 5 | NO | Pass |  | 2019-05-13 |
| 6 | NO | Pass |  | 2019-05-13 |

4.2.5 Search Facility (FR2.1)

Test prediction scheme

|  |  |  |  |
| --- | --- | --- | --- |
| Admin/User | | | |
| Test items | Test ID | Test point | Prediction |
| Search Facility | 1 | All results containing the search keyword(s) will be displayed | Yes |
| 2 | keyword is a letter | Displayed all results contain that letter |
| 3 | keyword is a word | Displayed all results contain that word |
| 4 | Keyword do not exist | Cannot search |
| 5 | Keyword is wrong | Cannot search |

Test recording report

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | Error Message | Test Results | Bug Classification | Date |
| 1 | NO | Pass |  | 2019-05-13 |
| 2 | NO | Pass |  | 2019-05-13 |
| 3 | NO | Pass |  | 2019-05-13 |
| 4 | NO | Fail |  | 2019-05-13 |
| 5 | NO | Fail |  | 2019-05-13 |

4.2.6 Update Facility (FR2.3-2.4)

Test prediction scheme

|  |  |  |  |
| --- | --- | --- | --- |
| Admin | | | |
| Test items | Test ID | Test point | Prediction |
| Add/Edit Facility | 1 | Viewing user information correctly | Yes |
| 2 | Fill all information in the form | Yes |
| 3 | Open time is empty | Cannot be modified |
| 4 | Close time is empty | Cannot be modified |
| 5 | Description is empty | Cannot be modified |
| 6 | Capacity is empty | Yes |
| 7 | Duration is empty | Yes |
| 8 | Contact is empty | Cannot be modified |
| 9 | Tel is empty | Cannot be modified |
| 10 | Price is empty | Cannot be modified |
| 11 | Image is empty | Yes |
| 12 | Checking for updates immediately? | Yes |
| Delete Facility | 13 | Cannot see the user again after deleting | Yes |

Test recording report

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | Error Message | Test Results | Bug Classification | Date |
| 1 | NO | Pass |  | 2019-05-13 |
| 2 | NO | Pass |  | 2019-05-13 |
| 3 | NO | Fail |  | 2019-05-13 |
| 4 | NO | Fail |  | 2019-05-13 |
| 5 | NO | Fail |  | 2019-05-13 |
| 6 | NO | Pass |  | 2019-05-13 |
| 7 | NO | Pass |  | 2019-05-13 |
| 8 | NO | Fail |  | 2019-05-13 |
| 9 | NO | Fail |  | 2019-05-13 |
| 10 | NO | Fail |  | 2019-05-13 |
| 11 | NO | Pass |  | 2019-05-13 |
| 12 | NO | Pass |  | 2019-05-13 |
| 13 | NO | Pass |  | 2019-05-13 |

4.2.6 Facility Booking (FR3.1-4.2)

Test prediction scheme

|  |  |  |  |
| --- | --- | --- | --- |
| Admin/User | | | |
| Test items | Test ID | Test point | Prediction |
| Add Booking | 1 | Add booking without choose facility | Cannot add |
| 2 | Add booking for multiply facilities | Yes |
| 3 | Add booking if the capacity is maximum | Cannot add |
| 4 | Add booking in the past date | Cannot add |
| 5 | Add booking today | Yes |
| 6 | Add booking in the future date(within two months) | Yes |
| 7 | Add booking in the future date(over two months) | Cannot add |
| 8 | Add booking without choose member | Yes |
| 9 | Add booking that is booked by user | Yes |
| Delete Booking | 10 | Remove booking that booked by user | Yes |
| 11 | Remove booking that booked by admin | Yes |
| 12 | After removing, it can be booked again | Yes |
| Booking Calendar | 13 | Viewing booking on calendar | Yes |
| 14 | Remove booking on calendar | Yes |
| 15 | Choose the date to book using month calendar | Yes |
| 16 | Choose the date to book using week calendar | Yes |
| 17 | Choose the date to book using day calendar | Yes |

Test recording report

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | Error Message | Test Results | Bug Classification | Date |
| 1 | NO | Cannot add |  | 2019.05.20 |
| 2 | NO | Yes |  | 2019.05.20 |
| 3 | NO | Cannot add |  | 2019.05.20 |
| 4 | NO | Cannot add |  | 2019.05.20 |
| 5 | NO | Yes |  | 2019.05.20 |
| 6 | NO | Yes |  | 2019.05.20 |
| 7 | NO | Cannot add |  | 2019.05.20 |
| 8 | NO | Yes |  | 2019.05.20 |
| 9 | NO | Yes |  | 2019.05.20 |
| 10 | NO | Yes |  | 2019.05.20 |
| 11 | NO | Yes |  | 2019.05.20 |
| 12 | NO | Yes |  | 2019.05.20 |
| 13 | NO | Yes |  | 2019.05.20 |
| 14 | NO | Yes |  | 2019.05.20 |
| 15 | NO | Yes |  | 2019.05.20 |
| 16 | NO | Yes |  | 2019.05.20 |
| 17 | NO | Yes |  | 2019.05.20 |

4.2.7 Form testing

|  |  |  |  |
| --- | --- | --- | --- |
| Test ID | Test point | Prediction | Result(√/×) |
| 1 | The submitted information does not meet the requirements | Cannot pass |  |
| 2 | The submitted information meets the requirements | Pass |  |
| 3 | Bypass requirements to submit the form | Cannot pass |  |

4.2.7Database Testing

|  |  |  |  |
| --- | --- | --- | --- |
| Test ID | Test point | Prediction | Result(√/×) |
| 1 | The information of database is consistent | Yes |  |
| 2 | The output information is correct | Yes |  |

4.2.7 User Interface Testing

|  |  |  |
| --- | --- | --- |
| Test ID | Test point | Test Evaluation |
| 1 | The text of various interface elements is correct | good |
| 2 | The various interface elements are in the correct state | good |
| 3 | Various interface elements support keyboard operations | good |
| 4 | Various interface elements support mouse operations | good |
| 5 | Reasonable sequence of operations | good |
| 6 | Button order is reasonable | good |
| 7 | Clear navigation | good |
| 8 | Run on mobile devices without users adjusting their devices | good |

4.2.8 Compatibility Testing

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Browser  System | IE7.0 | IE8.0 | IE9.0 | Google | Mozilla |
| window | √ | √ | √ | √ | √ |
| Win10 | √ | √ | √ | √ | √ |
| Mac | √ | √ | √ | √ | √ |

4.2.9Security Testing

|  |  |  |
| --- | --- | --- |
| Test ID | Test point | Test Evaluation |
| 1 | Password Hashing | Pass |
| 2 | Distinguish the user permissions | Pass |
| 3 | Relevant important information is written into the log. | Fail |