Test Cases

<Server>

1. **Test Cases for User Profile ID**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function point name** | **Description** | **Input** | **Expected output** |
| **Server\_acc**  **ount create a**  **patient**  **user** | Create a patient account | {"path": {"/users/register"}  "user\_id": "20210501675157",  "name": "John",  "birthdate ": "2001-05-01",  "phone\_number ": "+86 18657115478",  "email\_address ": "example@hotmail.com",  "credential": "330825200505260267",  "account\_type": "patient"  } | -success<true> |
| **Server\_acc**  **ount create a**  **doctor**  **user** | Create a doctor account | {"path": {"/users/register"}  "user\_id": "20210501675157",  "name": "John",  "birthdate ": "2001-05-01",  "phone\_number ": "+86 18657115478",  "email\_address ": "example@hotmail.com",  "credential": "330825200505260267",  "account\_type": "doctor"  } | -success<true> |
| **Server\_acc**  **ount create an**  **admin user** | Create an admin account | {"path": {"/users/register"}  "user\_id": "20210501675157",  "name": "John",  "birthdate ": "2001-05-01",  "phone\_number ": "+86 18657115478",  "email\_address ": "example@hotmail.com",  "credential": "330825200505260267",  "account\_type": "admin"  } | -success<true> |
| **Server\_acc**  **ount create a user\_error** | Create a user account with wrong inputs | {"path": {"/users/register"}  "user\_id": "20210501675157",  "name": "John",  "birthdate ": "01-05-2001",  "phone\_number ": "+86 18657^115478",  "email\_address ": "example@hotmail.cam",  "credential": "330825200505260267",  "account\_type": ""  } | -errinfo<none> |
| **Server\_account login** | Patient, Doctor or Admin User login | {"path": {"/users/login"}  "user\_id": "20210501675157"  "credential": "330825200505260264"  } | -success<true> |
| **Server\_account login password\_error** | The password for login is wrong | {"path": {"/users/login"}  "user\_id": "20210501675157"  "credential": "330825200505V260264"  } | -errinfo<none> |
| **Server\_account login user\_id\_error** | The user\_id for login is wrong | {"path": {"/users/login"}  "user\_id": "202105&01675157"  "credential": "330825200505V260264"  } | -errinfo<none> |
| **Sever\_account change password** | The user can modify the password | {"path": {"/users/cpass"}  "user\_id": "20210501675157"  "old\_password":  "167677e1479e32ed1ff758b224735b3c2730681754181f9a9cf848e1989d9c62"  "new\_password ":  "87cbfa4e880cde2b3a39dc8563c9959fe0b1cbbdc8f976cbdcf86774bea64987 "  } | -success<true> |
| **Sever\_account change password\_error** | If the last password is equal to the new one | {"path": {"/users/cpass"}  "user\_id": "20210501675157"  "old\_password":  "167677e1479e32ed1ff758b224735b3c2730681754181f9a9cf848e1989d9c62"  "new\_password ":  "167677e1479e32ed1ff758b224735b3c2730681754181f9a9cf848e1989d9c62"  } | -errinfo<none> |
| **Server\_account search form** | The admin can search for a specific user | {"path": {"/users/search"}  "name": "John"  "phone\_number": "+86\*"  } | -success<true> |
| **Server\_account search form\_error** | The admin cannot search for a specific user if the name or phone\_number are wrong | {"path": {"/users/search"}  "name": "John^"  "phone\_number": "+86\*"  } | -errinfo<none> |
| **Server\_account user search form** | The admin can modify the user profile | {"path": {"/users/modify"}  "renewed\_profile":  {  "user\_id": "20210501675157",  "name": "John",  "birthdate ": "2001-05-01",  "phone\_number ": "+86 18657115478",  "email\_address ": "example@hotmail.com",  "credential": "330825200505260267",  "register\_date": "2021-04-23"  "account\_type": "patient"  },  "new\_password": null  } | -success<true> |
| **Server\_account user search form\_error** | The admin cannot modify the user profile if one of the inputs (user\_id, name, birthdate, phone\_number, email, credential, and account type) are wrong | {"path": {"/users/modify"}  "renewed\_profile":  {  "user\_id": "20210501E675157",  "name": "Johtn",  "birthdate ": "2001-07-01",  "phone\_number ": "+86 18657115479",  "email\_address ": "example@hotmail.cam",  "credential": "3308252005W05260267",  "register\_date": "2021-04-23"  "account\_type": "doctor"  },  "new\_password": null  } | -errinfo<none> |
| **Server\_account delete specific users** | The admin can delete specific users from the user\_ids list | {"path": {"/users/delet"}  “user\_ids”:  [  "20210501675157",  "20210501675158",  "20210501675159",  "20210501675170"  ]  } | -success<true> |
| **Server\_account delete specific users\_error** | The admin cannot delete specific users from the user\_ids list if one of them is wrong | {"path": {"/users/delet"}  “user\_ids”:  [  "2021050167Tt5157",  "20210501675158",  "20210501675159",  "2021050\*1675170"  ]  } | -errinfo<none> |

1. **Test Cases for Algorithm APIs**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function point name** | **Description** | **Input** | **Expected output** |
| **Server\_algorithm upload an image** | Upload an image to be analyzed | {"path": {"/images/upload"}  "user\_id": "20210501675157",  "data": "YXNmc2R6dnp0ZWd2Zg==",  } | -success<true>  -errinfo<none> |
| **Server\_algorithm manage algorithm** | The admin can manage which algorithm used | {"path": {"/algorithms/manage"}  "algorithm\_id": "string"  } | -success<true>  -errinfo<none> |

1. **Test Cases for Treatment APIs**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function point name** | **Description** | **Input** | **Expected output** |
| **Server\_treatment find upload records** | Patients or Doctors can search for upload images | {  "images":  [  <json object of Image>,  <json object of Image>,  …  ]  } | -success<true> |
| **Server\_treatment find upload records\_error** | Patients or Doctors cannot search for upload images if it isn´t a json object | {  "images":  [  < >  ]  } | -errinfo<none> |
| **Server\_treatment revise treatment** | Doctors can revise the treatment | {"path": {"/image/modify"}  "user\_id": "string",  "record\_id": "string"  "url": "string"  } | -success<true> |
| **Server\_treatment revise treatment\_error** | Doctors cannot revise the treatment if the user\_id, record\_ir, or url are wrong | {"path": {"/image/modify"}  "user\_id": "string",  "record\_id": "string"  "url": "string"  } | -errinfo<none> |
| **Server\_treatment find upload records** | Admin can find the uploaded records | {"path": {"/image/manage"}  "record\_id": "string"  } | -success<true> |
| **Server\_treatment find upload records\_error** | Admin cannot find the uploaded records if the record\_id is wrong | {"path": {"/image/manage"}  "record\_id": "string"  } | -errinfo<none> |
| **Server\_treatment modify records** | Admin can modify specific records | {"path": {"/image/modify"}  "renewed\_profile":  {  "record\_id": "string"  }  } | -success<true> |
| **Server\_treatment modify records\_error** | Admin cannot modify specific records if the record\_id does not exist | {"path": {"/image/modify"}  "renewed\_profile":  {  "record\_id": "string"  }  } | -errinfo<none> |
| **Server\_treatment delete records** | Admin can delete specific records | {"path": {"/image/delete"}  "record\_id": "string"  } | -success<true> |
| **Server\_treatment delete records\_error** | Admin cannot delete specific records if the record\_id does not exist | {"path": {"/image/delete"}  "record\_id": "string"  } | -errinfo<none> |

1. **Test Cases for Message APIs**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function point name** | **Description** | **Input** | **Expected output** |
| **Server\_message search doctors** | Users can search for a specific doctor | {"path": {"/doctor/find"}  "user\_id": "100243455",  "name": "john",  "account\_type": "doctor"  } | -success<true> |
| **Server\_message search doctors\_error** | Users cannot search for a specific doctor if the user\_id or name are wrong the server gives error. | {"path": {"/doctor/find"}  "user\_id": "100243GT455",  "name": "john^",  "account\_type": "doctor"  } | -errinfo<none> |
| **Server\_message send messages** | Users can send messages to everyone, doctors, patients, and admin | {"path": {"/messages/send"}  "sender\_id": "10024345",  "receiver\_id": "46457231"  } | -success<true>  -errinfo<none> |
| **Server\_message find messages\_1** | Patient and doctors can find a specific message | {"path": {"/messages/find"}  "sender\_id": "10024345",  "receiver\_id": "46457231",  "timestart": "2021-05-08",  "timend": "2021-05-09",  "unread": "true"  } | -success<true> |
| **Server\_message find messages\_1\_error** | Patient and doctors cannot find a specific message if sender\_id does not exist | {"path": {"/messages/find"}  "sender\_id": "100S43^5",  "receiver\_id": "46457231",  "timestart": "2021-05-08",  "timend": "2021-05-09",  "unread": "true"  } | -errinfo<none> |
| **Server\_message find messages\_2** | Admin can find the existing messages | {"path": {"/messages/find"}  "sender\_id": "10024345",  "receiver\_id": "46457231",  "timestart": "2021-05-08",  "timend": "2021-05-09",  "unread": "true"  } | -success<true> |
| **Server\_message find messages\_2\_error** | Admin cannot find the existing messages id the sender\_id or receiver\_id are wrong | {"path": {"/messages/find"}  "sender\_id": "100S43^5",  "receiver\_id": "46457RR231",  "timestart": "2021-05-08",  "timend": "2021-05-09",  "unread": "true"  } | -errinfo<none> |
| **Server\_message delete messages** | Admin can delete messages | {"path": {"/messages/delete"}  ""sender\_id": "10024345",  "receiver\_id": "46457231"  } | -success<true> |
| **Server\_message delete messages\_error** | If the sender\_id or receiver\_id are wrong the admin cannot delete messages | {"path": {"/messages/delete"}  ""sender\_id": "10024345\*T",  "receiver\_id": "464577231"  } | -errinfo<none> |

1. **Test Cases for Backup APIs**

|  |  |  |  |
| --- | --- | --- | --- |
| **Function point name** | **Description** | **Input** | **Expected output** |
| **Server\_backup create backup** | Admin can create a new backup | {"path": {"/backup/create"}  "backup\_id": "string"  "create\_date": "2021-05-05"  "size": "string"  "description": "string"  } | -success<true>  -errinfo<none> |
| **Server\_backup find backups** | Admin can find saved backups | {"path": {"/backup/find"}  "backup\_id": "string"  } | -success<true> |
| **Server\_backup find backups\_error** | Admin cannot find saved backups if the backup\_id is wrong | {"path": {"/backup/find"}  "backup\_id": "string"  } | -errinfo<none> |
| **Server\_backup restore backup** | Admin can restore backups | {"path": {"/backup/restore"}  "backup\_id": "string"  } | -success<true> |
| **Server\_backup restore backup\_error** | Admin cannot restore backups if the backup\_id is wrong | {"path": {"/backup/restore"}  "backup\_id": "string"  } | -errinfo<none> |