1. **Experiment API**
2. **Find**
   * Request

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **Url** | | |
| **GET** | api/medical/experiment | | |
| Type | Params | Values | Description |
| HEADER | **Email** | string | Email which is used for accessing server api. |
| HEADER | **Password** | string | Password of email |
| HEADER | **Accept-Language** | string | Language which messages sent from server will be formatted.   * Default : **en-US** |
| URL | **Id** | int | Id of medical experiment. |
|  | | | |
| Role | * Patient * Doctor | | |

* + Response

|  |  |
| --- | --- |
| Status | Content |
| **200** | {  "Note": {  "Id": 0,  "MedicalRecord": 0,  "Owner": 0,  "Name": "",  "Info": "",  "Time": 0,  "Created": 0,  "LastModified": 0  }  } |
| **401**  No email or password contained in request header. Front-end should redirect user to login page. | {  "Error": "W012"  } |
| **401**  Account has been disabled. | {  "Error": "W002"  } |
| **401**  Account is pending. | {  "Error": "W001"  } |
| **403**  Account is not allowed to access the function. | {  "Error": "W013"  } |
| **404**  Medical experiment note is not found. | {  "Error": "W006"  } |
| **500**  Something wrong with server. Tell client to try again |  |

1. **Create**
   * Request

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **Url** | | |
| **POST** | api/medical/experiment | | |
| Type | Params | Values | Description |
| HEADER | **Email** | string | Email which is used for accessing server api. |
| HEADER | **Password** | string | Password of email |
| HEADER | **Accept-Language** | string | Language which messages sent from server will be formatted.   * Default : **en-US** |
| BODY | **MedicalRecord** | int | Id of medical record should experiment belong to. |
| BODY | **Name** | string | Name of experiment.   * **Required** * **Max length : 32** |
| BODY | **Infos** | Dictionary<string, double> | List of experiment key-value.   * **Optional** * **Max element : 32** * **Max key length : 32** * **Max value length : 32** |
|  | | | |
| Role | * Patient * Doctor | | |
| Sample request | {  "MedicalRecord": 0,  "Name": "",  "Infos": {  "abc": 0,  "cde": 0  }  } | | |

* + Response

|  |  |
| --- | --- |
| Status | Content |
| **200** | {  "Note": {  "Id": 0,  "MedicalRecord": 0,  "Owner": 0,  "Name": "",  "Info": "",  "Time": 0,  "Created": 0  }  } |
| **400**  Request parameters are invalid. | {  "Errors": ["", "", ""]  } |
| **401**  No email or password contained in request header. Front-end should redirect user to login page. | {  "Error": "W012"  } |
| **401**  Account has been disabled. | {  "Error": "W002"  } |
| **401**  Account is pending. | {  "Error": "W001"  } |
| **403**  Account is not allowed to access the function. | {  "Error": "W013"  } |
| **403**  The requester doesn’t have any relationships with the owner of medical record. | {  "Error": "W019"  } |
| **403**  There are 2 situations that this error code will be thrown back: | {  "Error": "W022"  }   * **Doctor creates medical record for him/herself (Doctor can only create medical record for patient he/she is providing treatment.** * **Patient creates medical record for another person. (Patient can only create medical record for him/herself).** |
| **403**  Owner of medical record is not found or not active. | {  "Error": "W023"  } |
| **500**  Something wrong with server. Tell client to try again |  |

1. **Edit**
   * Request

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **Url** | | |
| **PUT** | api/medical/experiment | | |
| Type | Params | Values | Description |
| HEADER | **Email** | string | Email which is used for accessing server api. |
| HEADER | **Password** | string | Password of email |
| HEADER | **Accept-Language** | string | Language which messages sent from server will be formatted.   * Default : **en-US** |
| URL | **Experiment** | int | Id of experiment record whose key-value should be changed. |
| BODY | **Name** | string | Name of experiment.   * **Optional.** * **Max length : 32** |
| BODY | **Time** | double | Time of experiment note   * **Optional** * **> 1916** |
| BODY | **Infos** | Dictionary<string, double> | List of experiment key-value.   * **Optional.** * **Max element : 32** * **Max key length : 32** |
|  | | | |
| Role | * Patient * Doctor | | |
| Sample body | {  "Name": "",  "Infos": {  "abc": 0,  "cde": 0  }  } | | |

* + Response

|  |  |
| --- | --- |
| Status | Content |
| **200** | No content returned. |
| **400**  Request parameters are invalid. | {  "Errors": ["", "", ""]  } |
| **401**  No email or password contained in request header. Front-end should redirect user to login page. | {  "Error": "W012"  } |
| **401**  Account has been disabled. | {  "Error": "W002"  } |
| **401**  Account is pending. | {  "Error": "W001"  } |
| **403**  Account is not allowed to access the function. | {  "Error": "W013"  } |
| **403**  The requester doesn’t have any relationships with the owner of medical record. | {  "Error": "W019"  } |
| **403**  There are 2 situations that this error code will be thrown back: | {  "Error": "W022"  }   * **Doctor creates medical record for him/herself (Doctor can only create medical record for patient he/she is providing treatment.** * **Patient creates medical record for another person. (Patient can only create medical record for him/herself).** |
| **403**  Owner of medical record is not found or not active. | {  "Error": "W023"  } |
| **404**  Medical record is not found | {  "Error": "W003"  } |
| **500**  Something wrong with server. Tell client to try again |  |

1. **Delete**
   * Request

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **Url** | | |
| **DELETE** | api/medical/experiment | | |
| Type | Params | Values | Description |
| HEADER | **Email** | string | Email which is used for accessing server api. |
| HEADER | **Password** | string | Password of email |
| HEADER | **Accept-Language** | string | Language which messages sent from server will be formatted.   * Default : **en-US** |
| URL | **Experiment** | int | Id of experiment record whose key-value should be changed. |
|  | | | |
| Role | * Patient | | |
| Use case | * Only the owner of medical record experiment can delete the medical record experiment. | | |

* + Response

|  |  |
| --- | --- |
| Status | Content |
| **200** |  |
| **401**  No email or password contained in request header. Front-end should redirect user to login page. | {  "Error": "W012"  } |
| **401**  Account has been disabled. | {  "Error": "W002"  } |
| **401**  Account is pending. | {  "Error": "W001"  } |
| **403**  Account is not allowed to access the function. | {  "Error": "W013"  } |
| **403**  The requester doesn’t have any relationships with the owner of medical record. | {  "Error": "W019"  } |
| **403**  There are 2 situations that this error code will be thrown back: | {  "Error": "W022"  }   * **Doctor creates medical record for him/herself (Doctor can only create medical record for patient he/she is providing treatment.** * **Patient creates medical record for another person. (Patient can only create medical record for him/herself).** |
| **403**  Owner of medical record is not found or not active. | {  "Error": "W023"  } |
| **404**  Record is not found | {  "Error": "W006"  } |
| **500**  Something wrong with server. Tell client to try again |  |

1. **Filter**
   * Request

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **Url** | | |
| **POST** | api/medical/experiment/filter | | |
| Type | Params | Values | Description |
| HEADER | **Email** | string | Email which is used for accessing server api. |
| HEADER | **Password** | string | Password of email |
| HEADER | **Accept-Language** | string | Language which messages sent from server will be formatted.   * Default : **en-US** |
| BODY | **MedicalRecord** | int | Id of medical record which experiment notes belong to.   * **Required** |
| BODY | **Name** | int | Experiment name   * **Optional.** * **Max length: 32** |
| BODY | **Partner** | int | Person who is included in Experiment note.   * **Optional** |
| BODY | **Mode** | int | Mode of filter   * **0:** Requester is the creator of experiment note. * **1:** Requester is the owner of experiment note. * **Null :** Requester is included in experiment note. |
| BODY | **MinTime** | double | Time after when experiment note was about.   * **Optional** * **Year > 1916** * **<= MaxTime** |
| BODY | **MaxTime** | double | Time before which experiment note was about.   * **Optional** * **Year > 1916** * **>= MinTime** |
| BODY | **MinCreated** | double | Time after which experiment note was created.   * **Optional** * **Year > 1916** * **<= MaxCreated** |
| BODY | **MaxCreated** | double | Time before which experiment note had been created.   * **Optional.** * **Year > 1916** * **>= MinCreated.** |
| BODY | **MinLastModified** | double | Time after which experiment note was lastly modified.   * **Optional** * **Year > 1916** * **<= MaxLastModified** |
| BODY | **MaxLastModified** | double | Time before which experiment note had been modified   * **Optional** * **Year > 1916** * **>= MinLastModified** |
| BODY | **Page** | double | Index of result page   * **Min : 0** |
| BODY | **Records** | double | Number of records per page.   * **Min : 1** * **Null : All (default)** |
|  | | | |
| Role | * Patient | | |
| Use case | * Requester can only see the records he/she has taken part in. | | |

* + Response

|  |  |
| --- | --- |
| Status | Content |
| **200** | {  "ExperimentNotes": [  {  "Id": 0,  "Owner": 0,  "Creator": 0,  "Name": "",  "Info": "",  "Time": 0,  "Created": 0,  "LastModified": 0  }  ],  "Total": 0  } |
| **401**  No email or password contained in request header. Front-end should redirect user to login page. | {  "Error": "W012"  } |
| **401**  Account has been disabled. | {  "Error": "W002"  } |
| **401**  Account is pending. | {  "Error": "W001"  } |
| **403**  Account is not allowed to access the function. | {  "Error": "W013"  } |
| **404**  Record is not found | {  "Error": "W006"  } |
| **500**  Something wrong with server. Tell client to try again |  |