

Documentation for BE API

****Must-have fields**

===== User
=====

Without Id =====

.post(localhost-port../register):

Passport - registration: returns token of authentication/Unauthorized if fail

```
{
  **"username": string,                # can
  contain special characters
  **"password": string,                # can
  contain special characters
  **"email": string,                    # in
  email format
  **"firstName": string,                # cannot
  contain special characters
  **"lastName": string,                # cannot
  contain special characters
  **"dateOfBirth": "YYYY-MM-DD"/"YYYY-DD-MM", # must be a
  valid date
  "biography": string,
}
```

.post(localhost-port../login):

Passport - login: returns token of authentication/Unauthorized if fail

```
{
  **"username": string,                # can
  contain special characters
  **"password": string,                # can
  contain special characters
}
```

.get(): gets all users -> returns array of users in the form:

.get(/search): search with given query, return arrays of matching

```
{
  **"query":
string                # can
  contain special characters
}
```

.put(): updates user with given Id -> returns updated user

Should not include username(unchangeable), password and email (must be updated under protection).

Other fields if have no updates can be ignored.

```
{
  "firstName": string,                # cannot
  contain special characters
}
```

```

        "lastName": string,                                # cannot
contain special characters
        "dateOfBirth": "YYYY-MM-DD"/"YYYY-DD-MM",        # must be a
valid date
        "biography": string,
    }
.delete(): deletes user with give Id -> returns status 200 if successful

With Id =====
.get(): returns user with given Id -> returns user if found/status 404
otherwise

===== Contact
=====

Without Id =====
.post(): creates new contact normally -> returns data if successful
{
    **"firstName": string,                                # cannot
contain special characters
    **"lastName": string,                                # cannot
contain special characters
    "email": string,                                     #
(if exists) in email format
    "phoneNumber": string,                               # (if
exists) contain numbers only
    "dateOfBirth": "YYYY-MM-DD"/"YYYY-DD-MM",           # (if exists)
must be a valid date
    "biography": string,
    "jobTitle": [string],
}
.get(): gets all contacts -> returns array of contacts
.get(/search): search with given query and owner userId, return arrays
of matching, same as 'user'
.get(/getall): returns all contacts that belongs to this userId ->
status 404 otherwise if none

With Id =====
.post(/add/:userId): creates new contact with a given user Id ->
returns data if successful
.put(/:id): updates contact with given Id -> returns updated contact
    same as 'create', except for:
    - belongsTo should not be included since this field is fixed and
can't be updated
    - firstName & lastName are not required if no updates on these fields
.delete(): deletes contact with give Id -> return status 200 if
successful
.get(): returns contacts with given Id -> returns contact if found
/status 404 otherwise

```

[illegible]

```

    **"startedDatetime": "YYYY-MM-DD"/"YYYY-DD-MM", # must be a valid
date
    "tag": [string],
    "description": string
}
.get(): gets all relationships -> returns array of relationships
.get(/search): search with given query and owner userId, return arrays
of matching, same as 'user'
.get(/getall): returns all contacts that belongs to this userId ->
status 404 otherwise if none

```

With Id =====

```

.put(): updates relationship with given Id -> returns updated
relationship
    people and startedDatetime are fixed and can't be updated
    {
        "tag": [string],
        "description": string
    }
.delete(): deletes relationship with give Id -> returns status 200 if
successful
.get(): returns relationship with given Id -> returns relationship if
found/status 404 otherwise

```

===== Conversation
=====

Without Id =====

```

.post(): creates new conversation -> returns data if successful
{
    **"people": [string], # array of
userId, must greater than 1
    "messages": [
        {
            "sender": string, # userId
            "content": string, # must include
content
        },
        {
            "sender": string, # userId
            "content": string, # must include
content
        }
    ]
}
.get(): gets all conversations -> returns array of conversations
.get(/getall): gets all conversations that belong to this user

```

With Id =====

```

.put(): updates conversation with given Id -> returns updated user

```

```

Update messages only (push new messages to the array)
{
    "messages": [
        {
            **"sender": string,                # userId
            **"content": string,                # must include content
        }
    ]
}

.delete(): deletes conversation with give Id -> returns status 200 if
successful

.get(): returns conversation with given Id -> returns conversation if
found/status 404 otherwise

.get(/search/:id): search with given query, and id of the convo, query
json format is same as 'user'

===== Fields of searching in search engine
=====

Event:                name, description, dateTime
Contact:              firstName, lastName, email, jobTitle
Relationship:         tag
Conversation:         message content
User:                 username, firstName, lastName, email

```