

TelegramBot: Technical Specification

1. Introduction

TelegramBot is looking are there any unread messages or posts in users selected telegram channels and sending him/her notifications.

2.UserController

2.1. allows us make basic operations with user profiles

Base path /users

2.1.1. Contents

Operation	Method	Resource path
Users list	GET	/users
Create user	POST	/users
Delete user	DELETE	/users/{id}
Get user	GET	/users/{id}
Update user	PUT	/users/{id}

2.1.1.1. Users list

Returns users list

Output List<User>

Field	Type	Description
id	int	<i>User inner identifier</i>
name	String	User name
status	UserRole	Users role, ADMIN or User

2.1.1.2. Create user

Creates user in database

Input parameters in the request body

Name	Type	Description
name	String	User name

Output User

Name	Type	Description
id	int	<i>User inner identifier</i>

status	UserRole	User role
name	String	User name

Output execution result

```
{
  "id": 30,
  "name": "qwerty",
  "status": "USER"
}
```

2.1.1.3. Delete user

Delete user from database

Input parameters

Name	Type	Description
id	int	User inner identifier

2.1.1.4. Get user

Get user by identifier

Input parameters

Name	Type	Description
id	int	User inner identifier

Output User

Name	Type	Description
id	int	User inner identifier
status	UserRole	User role
name	String	User name

2.1.1.5. Update user

Method can update users field name

Input parameters

Name	Type	Description
id	int	User inner identifier

Input parameters in the request body

Name	Type	Description
name	String	User name

Output User

Name	Type	Description
id	int	<i>User inner identifier</i>
status	UserRole	User role
name	String	User name

Output execution result

```
{
  "id": 30,
  "name": "qwerty",
  "status": "user"
}
```

3. ChannelController

3.1. allows us make basic operations with channels

Base path /channels

3.1.1. Contents

Operation	Method	Resource path
Channel list	GET	/channels
Get channel	GET	/channels/{id}
Create channel	POST	/channels
Update channel	PUT	/channels/{id}
Delete channel	DELETE	/channels/{id}

3.1.1.1. Channel list

Returns all channel list from database

Output List<Channel>

Field	Type	Description
id	int	<i>Channel inner identifier</i>

name	String	Channel name
isBotEnabled	boolean	Shows is channel open for reading message and generating events for it

3.1.1.2. Get channel

Gets channel from database by identifier

Input parameters

Name	Type	Description
id	int	Channel inner identifier

Output Channel

Field	Type	Description
id	int	Channel inner identifier
name	String	Channel name
isBotEnabled	boolean	Shows is channel open for reading message and generating events for it

3.1.1.3. Create channel

Add channel to database

Input parameters in the request body

Name	Type	Description
name	String	Channel name

Output Channel

Field	Type	Description
id	int	Channel inner identifier
name	String	Channel name
isBotEnabled	boolean	Shows is channel open for reading message and generating events for it

Output execution result

```
{
  "id": 40,
  "name": "TestGroupTelranTest",
  "botEnabled": true
}
```

3.1.1.4. Update channel

Method can update channelName

Input parameters

Name	Type	Description
id	int	Channel inner identifier

Input parameters in the request body

Name	Type	Description
name	String	Channel name

Output Channel

Field	Type	Description
id	int	Channel inner identifier
name	String	Channel name
isBotEnabled	boolean	Shows is channel open for reading message and generating events for it

3.1.1.5. Delete channel

Delete channel from database

Input parameters

Name	Type	Description
id	int	Channel inner identifier

4. EventController

4.1. allowing get event list for specific user by id

Base path /events

4.1.1. Contents

Operation	Method	Resource path
Event list	GET	/events/{userid}

4.1.1.1. Event list

Gets all new events from database for specific by id user

Input parameters

Name	Type	Description
id	int	User inner identifier

Output List<Event>

Name	Type	Description
id	int	Event inner identifier
text	String	Notification text
userId	int	User inner identifier
channelId	int	Channel inner identifier
isNew	boolean	Shows is event new or were sent before

5. StatisticController

5.1. allowing get event list for specific user by id

Base path /statistic

5.1.1. Contents

Operation	Method	Resource path
Statistic list	GET	/statistic/{userid}
Create statistic	POST	/statistic/{userid}/new

5.1.1.1. List Statistic

Gets all statistic list from database, but user must be admin to get it

Input parameters

Name	Type	Description
id	int	User inner identifier

Output List<Statistic>

Field	Type	Description
id	int	Statistic inner identifier
statisticMessage	String	Basic statistic message how much new events were sent from last statistic
lastIndexOfLastEvent	int	Event inner identifier, used in creating new statistic

5.1.1.2. Create Statistic

Prepare new Statistic and displays it, but user must be admin to get it

Input parameters

Name	Type	Description
id	int	User inner identifier

Output Statistic

Field	Type	Description
id	int	Statistic inner identifier
statisticMessage	String	Basic statistic message how much new events were sent from last statistic
<i>lastIndexOfLastEvent</i>	int	Event inner identifier, used in creating new statistic

Output execution

```
{
  "id": 8,
  "statisticMessage": "From last time bot sent 0 new events!",
  "lastIndexOfLastEvent": 106
}
```

6. UserChannelController

6.1. Controller allows to make basic operations with subscriptions and 2 more options for activating or deactivating subscription without deleting

Base path /subscriptions

6.1.1. Contents

Operation	Method	Resource path
Subscription list	GET	/subscriptions/{userid}
Create subscription	POST	/subscriptions/{userid}
Delete subscription	DELETE	/subscriptions/{userid}/{channelid}
Activate subscription	PUT	/subscriptions/{userid}/activate
Deactivate subscription	PUT	/subscriptions/{userid}/deactivate

6.1.1.1. Subscription list

Gets all user subscriptions by user inner identifier

Input parameters

Name	Type	Description
id	int	User inner identifier

Output List<UserChannel>

Field	Type	Description
id	int	UserChannel inner identifier
userId	int	User inner identifier
channelId	int	Channel inner identifier
isSubscribed	boolean	Defines if subscriptions is active or not, by default is active

6.1.1.2. Create Subscription

Adds to database new UserChannel if user and channel exists, and if subscription already doesn't exist

Input parameters

Name	Type	Description
userId	int	User inner identifier

Input parameters in the request body

Name	Type	Description
userId	int	User inner identifier
channelId	int	Channel inner identifier

Output UserChannel

Field	Type	Description
id	int	UserChannel inner identifier
userId	int	User inner identifier
channelId	int	Channel inner identifier
isSubscribed	boolean	Defines if subscriptions is active or not, by default is active

Output execution

```
{
  "id": 27,
  "userId": 18,
  "channelId": 36,
  "subscribed": true
}
```

6.1.1.3. Delete Subscription

Deletes from database UserChannel if subscription exist and user exist

Input parameters

Name	Type	Description
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userid	int	User inner identifier
channelid	int	Channel inner identifier

6.1.1.4. Activate Subscription

Activates existing subscription if user and subscription exist

Input parameters

Name	Type	Description
userId	int	User inner identifier

Input parameters in the request body

Name	Type	Description
userId	int	User inner identifier
channelId	int	Channel inner identifier

Output UserChannel

Field	Type	Description
id	int	UserChannel inner identifier
userId	int	User inner identifier
channelId	int	Channel inner identifier
isSubscribed	boolean	Defines if subscriptions is active or not, by default is active

Output execution

```
{
  "id": 27,
  "userId": 18,
  "channelId": 36,
  "subscribed": true
}
```

6.1.1.5. Activate Subscription

Activates existing subscription if user and subscription exist

Input parameters

Name	Type	Description
userId	int	User inner identifier

Input parameters in the request body

Name	Type	Description
userId	int	User inner identifier
channelId	int	Channel inner identifier

Output UserChannel

Field	Type	Description
id	int	UserChannel inner identifier
userId	int	User inner identifier
channelId	int	Channel inner identifier
isSubscribed	boolean	Defines if subscriptions is active or not, by default is active

Output execution

```
{
  "id": 27,
  "userId": 18,
  "channelId": 36,
  "subscribed": false
}
```