DirectMessaging Microservice

Creation of tables -

Just running the command "flask init" it calls the create_directMessages_table() i.e, responsible for creating the DynamoDB table and create_items() puts some items into the active table. The init_db() also checks if table is already existing. If exists it deletes the existing one. Finally, a new table named "directMessages" is created and is populated with sample data.

Rest Apis -

• sendDirectMessage (to, messageFrom, message, quickReplies=None)

Description: This api is for sending direct message to a user registration. If all the parameters i.e, to, messageFrom and message are passed successfully and are not null then we get a success message with status code 200. If null or empty value is passed for to or messageFrom or message, then we get 400 statusCode with Bad Request error.

```
Endpoint: /sendDirectMessage

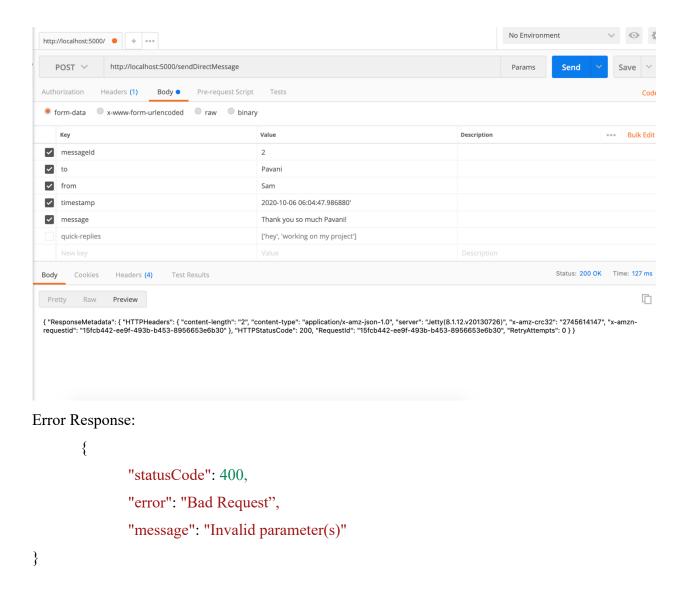
Method: POST

Parameters: to, from, message, timestamp, messageId

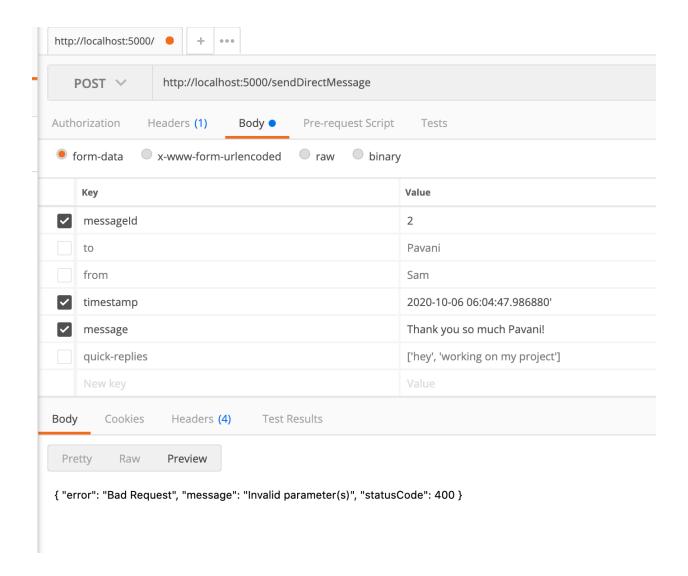
Sample JSON Request:

{
     'messageId': '102',
     'to': 'Pavani',
     'from': 'Sam',
     'timestamp': '2020-10-06 06:04:47.986880',
     'message: ' Hey Sam! The hydroponics vegetation idea that you took up is really inspiring!'
}
```

Success Response:



In the below picture I removed the fields "to and "from" and then tried to hit the api and as expected we see the error message.



• replyToDirectMessage (messageId, reply)

Description: This api is for sending reply to a direct message. The reply parameter may either be a text message or a quick-reply value.

Endpoint: /replyToDirectMessage

Method: POST

Parameters: in-reply-to, reply, timestamp, messageId

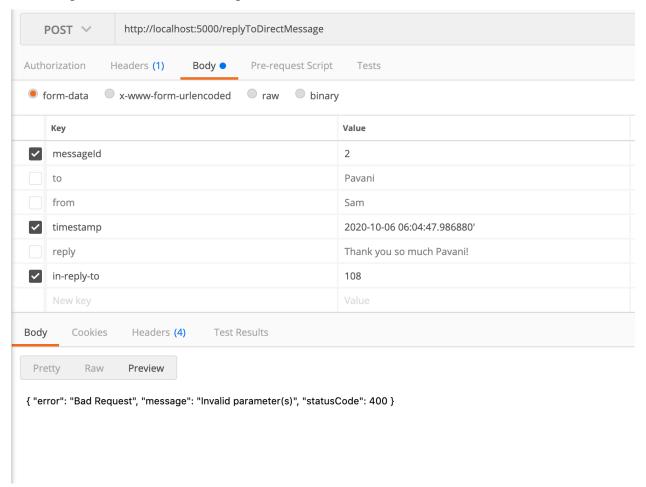
Sample JSON Request:

```
'messageId': '102',
                         'in-reply-to': '101',
                         'timestamp': '2020-10-06 06:04:47.986880',
                        'reply': 'Thank you so much!'
                                                                                                                                No Environment
http://localhost:5000/ • + •••
                  http://localhost:5000/replyToDirectMessage
                                                                                                                                               Send
   POST V
                                                                                                                                 Params
Authorization
               Headers (1)
                            Body •
                                         Pre-request Script
              x-www-form-urlencoded raw binary
form-data
     Key
                                                            Value
                                                                                                                   Description
                                                                                                                                                           ••• Bulk Edit
messageld
                                                            2
                                                            Pavani
     to
     from
                                                            Sam
                                                            2020-10-06 06:04:47.986880'
                                                            Thank you so much Pavani!
reply
in-reply-to
                                                            108
                                   Test Results
                                                                                                                                              Status: 200 OK Time: 46 ms
                    Headers (4)
Body
       Cookies
                                                                                                                                                                     Pretty
                   Preview
{ "ResponseMetadata": { "HTTPHeaders": { "content-length": "2", "content-type": "application/x-amz-json-1.0", "server": "Jetty(8.1.12.v20130726)", "x-amz-crc32": "2745614147", "x-amzn-requestid": "22962db8-b12f-4f31-b426-9b80f33f3116", "RetryAttempts": 0 } }
```

Error Response:

```
{
    "statusCode": 400,
    "error": "Bad Request",
    "message": "Invalid parameter(s)"
}
```

In the below screenshot, I am trying to make a POST request removing the "reply" parameter and as expected we see an error response.



• listDirectMessagesFor(username)

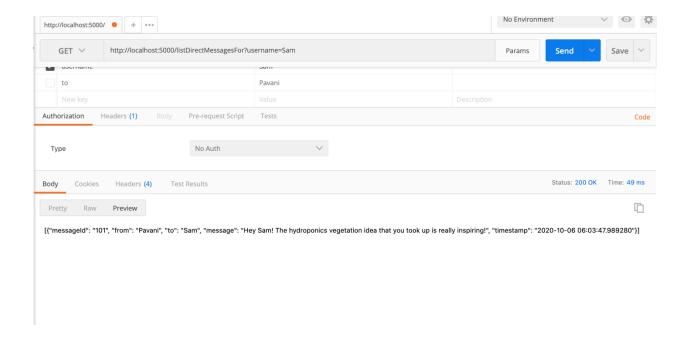
Description: This api is listing a user's direct Messages.

Endpoint: /listDirectMessagesFor

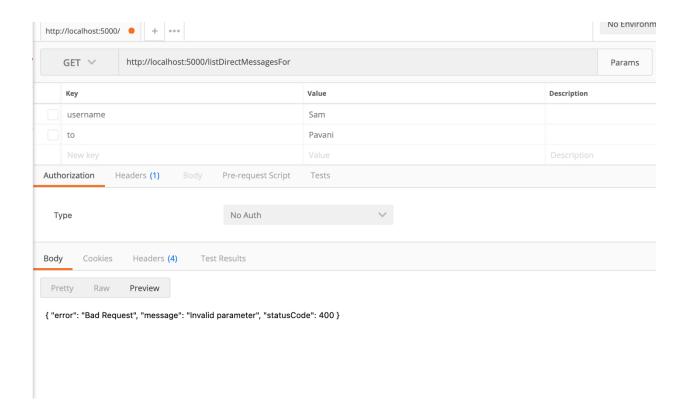
Method: GET

Parameters: username

The following screenshot shows all the direct Messages for the user "Sam".



In the below screenshot, I am trying to make a POST request removing the "username" parameter and as expected we see an error response.



• listRepliesTo(messageId)

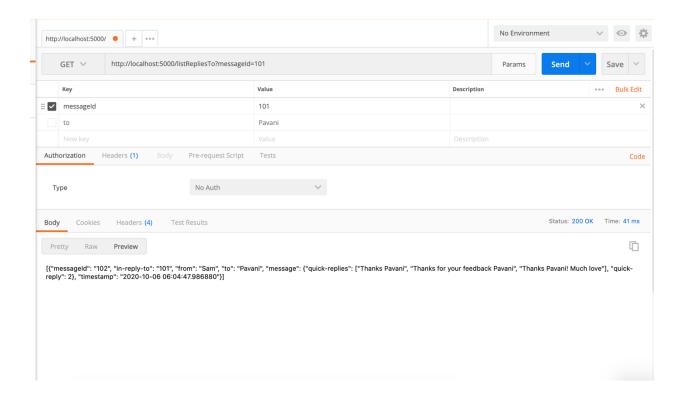
Description: This api is listing a user's direct Messages.

Endpoint: /listRepliesTo

Method: GET

Parameters: messageId

The following screenshot shows all the replies to a direct message.



In the below screenshot, I am trying to make a POST request removing the "messageId" parameter and as expected we see an error response.

