

Bulletin Board API: Documentation

Introduction

This is the documentation for Version 1 of the Bulletin Board API (BBAPI.1)

Resource Formats

The default resource format is JSON (application/json).

Authentication

BBAPI.1 runs on a username/password authentication protocol.

Only username/password pairs valid for Chunks are valid.

Authentication data is sent with parameters (GET) or in the body of the request (POST, PATCH, DELETE).

Prefix

All End Points (i.e. resources) need to be prefixed with: https://teaching.maumt.se/apis/bulletin_board/v1/

Resource

```
BBAPI.1 serves objects with this structure:
  response_feedback: string,
                                            text-based feedback from the server
  messages: array of Messages, users: array of Users
...where Messages are objects with the structure:
  message_id: int
  sender: string,
                                            username of the sender
                                            username of the receiver
  receiver: string,
                                            content of the \ensuremath{\mathsf{message}}
  content: string.
                                            the date of dispatch, with format "2022-09-12 09:05:03"
"0" if message has not been edited, else date of the latest edition.
  timestamp: string,
  edited_timestamp: string,
...and Users are objects with the structure:
  name: string
                                            username
```

The array of Messages will be ordered by timestamp, decreasing (from latest to earliest).

The array of Users will be ordered alphabetically.

Examples

prefix?un=X&pw=Y&sender_name=Z serves all messages where X is receiver and Z is sender

Accessing users from the bulletin

A list of all users in the bulletin is located in the resource: prefix?un=X&pw=Y&all_users serves all users in the DB

A list of all the users that have sent or received a message to or from a specific user is located in the resource: prefix?un=X&pw=Y&connections serves all users that have a message to or from un

Accessing messages from the bulletin

Messages from the bulletin can only be accessed with GET requests. Required GET-parameters:

un: A valid Chunks username pw: A valid Chunks password

sender or receiver: one and only one of them must be set and be a valid Chunks username



If sender is set, BBAPI.1 will return messages where un is the receiver and sender the sender.

If receiver is set, BBAPI.1 will return messages where un is the sender and receiver the receiver.

In all cases, BBAPI.1 will only send the latest 10 messages.

If there is no user in the DB with the name sender or receiver, BBAPI.1 responds with a 404 code.

```
Examples
```

prefix?un=X&pw=Y&sender=Z serves all messages where X is receiver and Z is sender

Posting Messages

Messages are posted with a POST request. Note that the message will have sender = username (from username/password).

The request must have the header "Content-type": "application/json; charset=UTF-8". The body of the request must be a JSON-object with the structure:

```
un: string,
                                     username of the sender
                                     password of the sender
  pw: string,
  receiver: string,
                                     username of the receiver
  content: string,
                                     content of the message
The response from a POST-request has the form:
  response_feedback: string,
                                     text-based feedback from the server
  messages:
    [
      {
         message_id: int
         sender: string,
receiver: string,
         content: string,
         timestamp: int,
         edited_timestamp: int,
      }
    ]
}
```

...where messages is an array of only one object: the message just posted.

Possible responses

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		status code	response_feedback	notes
	Successful posting	201	OK	Assigned id is included in response
	Invalid username/password pair	400	Invalid credentials	No changes to DB
	User not found	404	User not found	There is no user with the name passed in "receiver"

Patching Messages

Existing messages in the Bulletin Board can be edited with a PATCH-request. Note that only messages with sender = username (from username/password) can be edited.

The request must have the header "Content-type": "application/json; charset=UTF-8". The body of the request must be a JSON-object with the structure:

```
{
  un: string,
    pw: string,
    message_id: int,
    content: string,
}

The response from a PATCH-request has the form:
{
  response_feedback: string,
  messages:
  [
    message_id: int
    sender: string,
    message_id: int
    sender: string,
    message_id: int
    sender: string,
    message_id: int
    sender: string,
```



```
receiver: string,
    content: string,
    timestamp: int,
    edited_timestamp: int,
}
}
```

...where messages is an array of only one object: the message just patched.

Possible responses

	status code	response_feedback	notes
Successful update	200	OK	key "content" in response object will contain the updated content
Invalid username/password pair	400	Invalid credentials	No changes to DB
Sender has no message with that message_id	404	Message not found	No changes to DB

Deleting Messages

Existing messages in the Bulletin Board can be removed with a DELETE-request. Note that only messages with sender = username (from username/password) can be removed.

The request must have the header "Content-type": "application/json; charset=UTF-8". The body of the request must be a JSON-object with the structure:

```
un: string,
                                      username of the sender
  pw: string,
message_id: int,
                                      password of the sender
                                      id of the message to be removed
The response from a DELETE-request has the form:
  response_feedback: string,
                                      text-based feedback from the server
  messages:
    [
          message_id: int
          sender: string,
          receiver: string,
          content: string,
timestamp: int,
          edited_timestamp: int,
    ]
```

...where messages is an array of only one object: the message just removed.

Possible responses

}

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	status code	response_feedback	notes		
Successful update	200	OK	The removed message is sent back in the response but the message does not exist any longer in the DB.		
Invalid username/password pair	400	Invalid credentials	No changes to DB		
Sender has no message with that message_id	404	Message not found	No changes to DB		