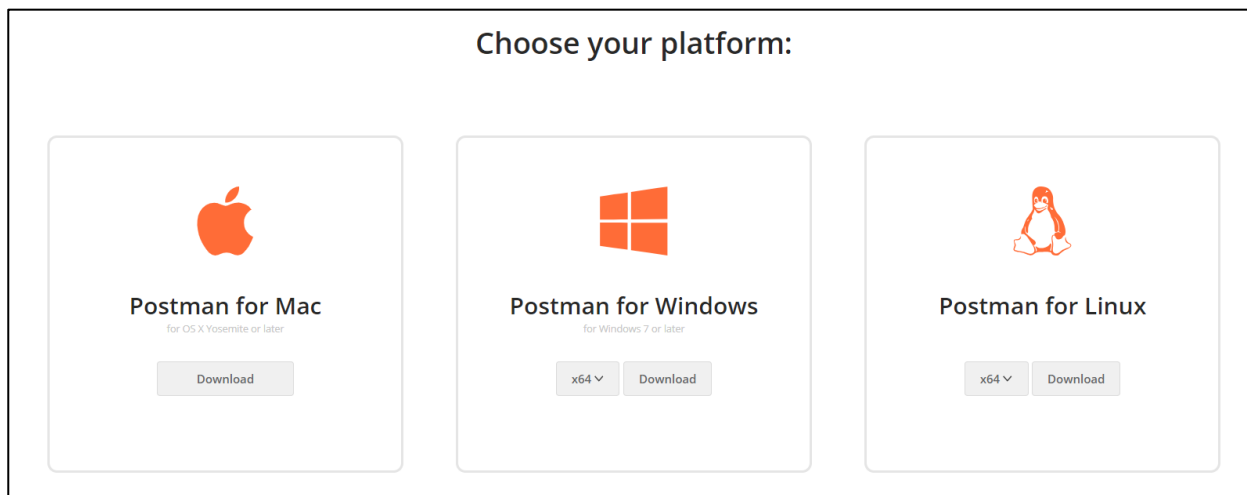


# Упражнение: HTTP протокол

## I. Инсталиране на необходимия софтуер

### 1. Postman

Можете да изтеглите **Postman** от [тук](#).



## II. Направете основни HTTP заявки

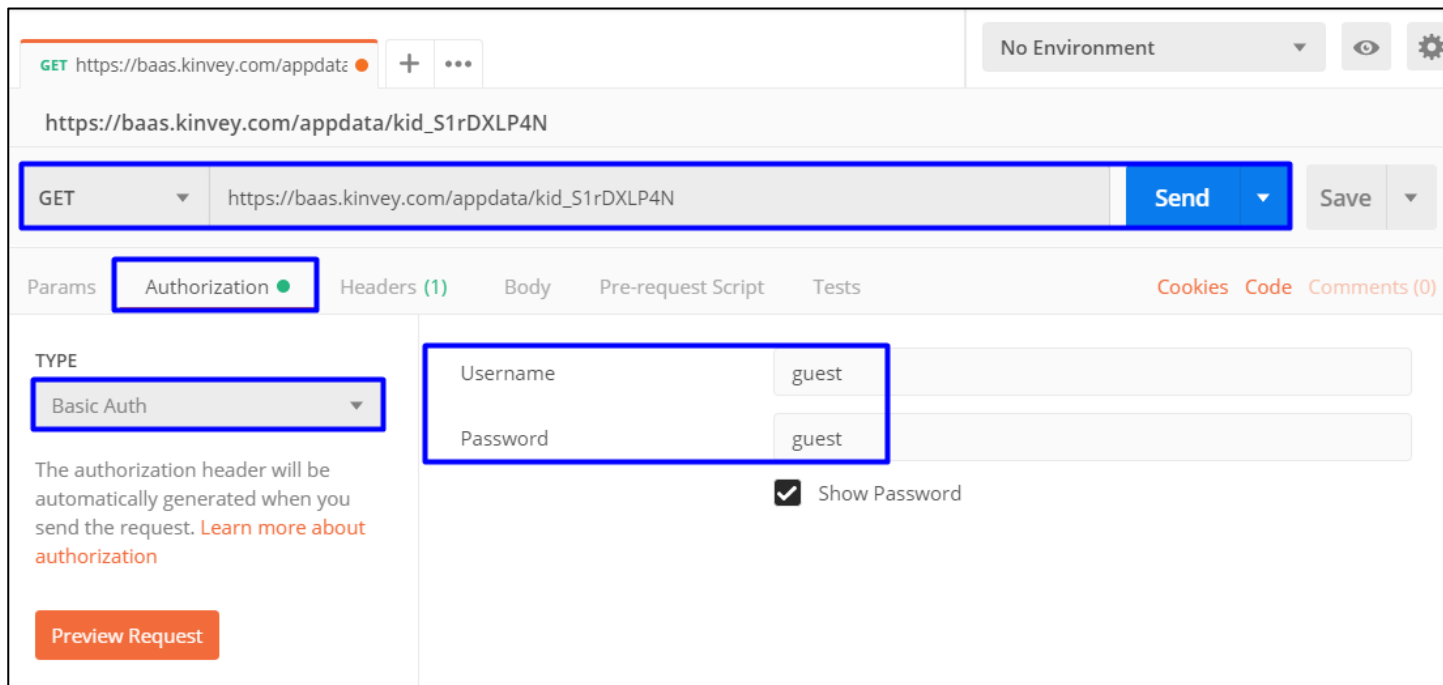
### 1. Kinvey

Трябва да въведем следната заявка "GET" в Postman:

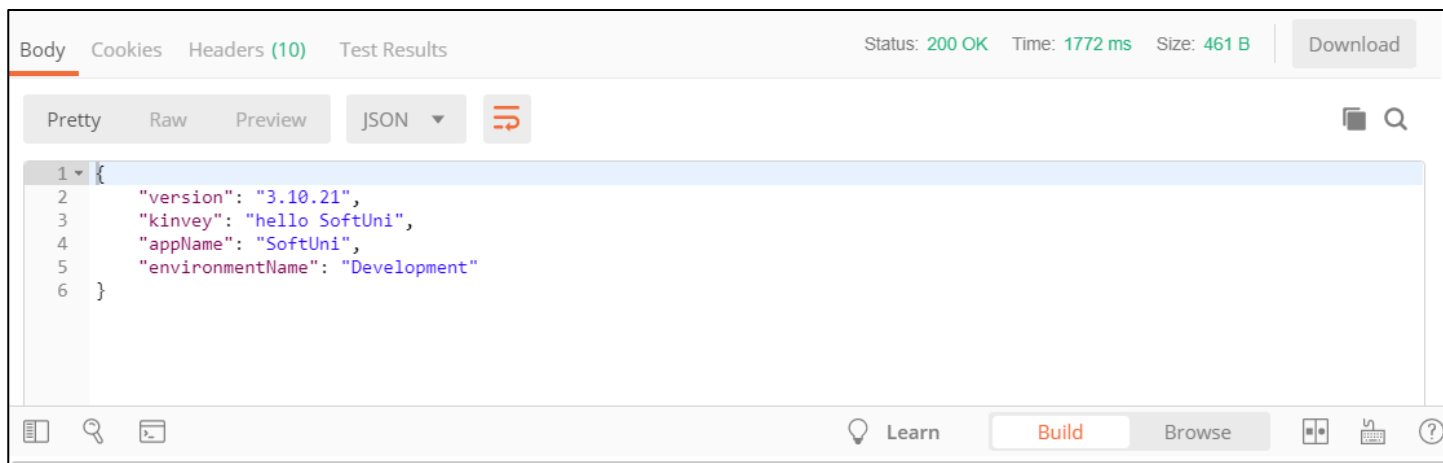
[https://baas.kinvey.com/appdata/kid\\_S1rDXLP4N](https://baas.kinvey.com/appdata/kid_S1rDXLP4N)

Първо, отидете на **Authorization** в **Postman** и изберете "Basic Auth". Въведете потребителско име: "guest" и парола: "guest":

**Заявка:**



**Отговор:**



### 2. Вземете всички песни

Отидете на **Authorization** в **Postman** и изберете "Basic Auth". Въведете потребителско име: " guest" и парола: " guest".

След това изброяването на всички песни трябва да е лесно със следната заявка:

[https://baas.kinvey.com/appdata/kid\\_S1rDXLP4N/songs](https://baas.kinvey.com/appdata/kid_S1rDXLP4N/songs)

**Заявка:**

The screenshot shows the Postman interface for configuring a GET request. The URL bar contains `https://baas.kinvey.com/appdata/kid_S1rDXLP4N/songs`. The 'Authorization' tab is selected, and 'Basic Auth' is chosen from the 'TYPE' dropdown. The 'Username' and 'Password' fields both contain the text 'guest'. The 'Show Password' checkbox is checked. A 'Preview Request' button is visible at the bottom left.

**Отговор:**

The screenshot shows the Postman interface displaying the JSON response of the GET request. The 'JSON' tab is selected, and the response is formatted as 'Pretty'. The response is an array of three song objects. The first object is for '24K Magic' by Bruno Mars, the second is for 'Californication' by Red Hot Chili Peppers, and the third is for 'The Lazy Song' by Doo-Wops & Hooligans.

```
1 [
2   {
3     "_id": "5c5adb00c341455f55574eec",
4     "name": "24K Magic",
5     "album": "24K Magic",
6     "artist": "Bruno Mars",
7     "time": "3:46",
8     "year": "2016",
9     "_acl": {
10      "creator": "kid_S1rDXLP4N"
11    },
12    "_kmd": {
13      "lmt": "2019-02-06T13:02:56.905Z",
14      "ect": "2019-02-06T13:02:56.905Z"
15    }
16  },
17  {
18    "_id": "5c5adb00c892215f50bd6761",
19    "name": "Californication",
20    "album": "Californication",
21    "artist": "Red Hot Chili Peppers",
22    "time": "5:21",
23    "year": "1999",
24    "_acl": {
25      "creator": "kid_S1rDXLP4N"
26    },
27    "_kmd": {
28      "lmt": "2019-02-06T13:02:56.883Z",
29      "ect": "2019-02-06T13:02:56.883Z"
30    }
31  },
32  {
33    "_id": "5c5adb0006715b6608abf4ab",
34    "name": "The Lazy Song",
35    "album": "Doo-Wops & Hooligans",
```

### 3. Създайте нова песен

Отново отидете на **Authorization** в **Postman** и изберете "**Basic Auth**". Въведете потребителско име: " guest" и парола: " guest". Сега трябва да създадем нова песен:

**Заявка:**

The screenshot shows the Postman interface for a POST request. The URL is `https://baas.kinvey.com/appdata/kid_S1rDXLP4N/songs`. The 'Body' tab is selected, and the 'form-data' radio button is chosen. A table of form data is visible:

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> name	Back In Black	
<input checked="" type="checkbox"/> album	Back In Black	
<input checked="" type="checkbox"/> artist	AC/DC	
<input checked="" type="checkbox"/> time	4:15	
<input checked="" type="checkbox"/> year	1980	

**Отговор:**

The screenshot shows the Postman interface displaying the JSON response of the POST request. The status is '201 Created', time is '1396 ms', and size is '704 B'. The response is shown in 'Pretty' format as JSON:

```
1 {
2   "name": "Back In Black",
3   "album": "Back In Black",
4   "artist": "AC/DC",
5   "time": "4:15",
6   "year": "1980",
7   "_acl": {
8     "creator": "5c59d66206715b6608a4d80d"
9   },
10  "_kmd": {
11    "lmt": "2019-02-06T14:35:54.529Z",
12    "ect": "2019-02-06T14:35:54.529Z"
13  },
14  "_id": "5c5af0ca45e75e68f27a903d"
15 }
```

## 4. Изтрийте песен

Сега нека изтрием новосъздадената песен.

Заявка "DELETE": [https://baas.kinvey.com/appdata/kid\\_S1rDXLP4N/songs/postId](https://baas.kinvey.com/appdata/kid_S1rDXLP4N/songs/postId). PostId може да се намери в JSON отговора на предишната задача:

The screenshot shows a REST client interface with the following details:

- Method:** POST (dropdown)
- URL:** `https://baas.kinvey.com/appdata/kid_S1rDXLP4N/songs/5c5af0ca45e75e68f27a903d`
- Buttons:** Send (blue), Save (dropdown)
- Tabs:** Params, Authorization (selected), Headers (1), Body, Pre-request Script, Tests, Cookies, Code, Comments (0)
- Authorization:**
  - TYPE:** Basic Auth (dropdown)
  - Username:** guest
  - Password:** masked with dots
  - ☐ Show Password
  - Preview Request:** (button)

Заявката "DELETE" трябва да генерира отговор, който ни казва колко публикации сме изтрили:

The screenshot shows the response body of the DELETE request in a REST client:

- Tabs:** Body (selected), Cookies, Headers (10), Test Results
- Status:** 200 OK, **Time:** 1299 ms, **Size:** 373 B, **Download** (button)
- Format:** Pretty, Raw, Preview (dropdown), JSON (dropdown), Copy (button), Search (button)
- Response Body (JSON):**

```
{
  "count": 1
}
```

Сега, когато получим всички песни, можем да забележим, че песента "Back In Black" не е в списъка.

## 5. Редактиране на песен

Редактирайте песен с PUT заявка.

[https://baas.kinvey.com/appdata/kid\\_S1rDXLP4N/songs/5c5adb00c892215f50bd6761](https://baas.kinvey.com/appdata/kid_S1rDXLP4N/songs/5c5adb00c892215f50bd6761)

Променете следните колони:

- **name:** "Dani California"
- **album:** "Stadium Arcadium"
- **time:** "4:43"
- **year:** "2006"
- добавете допълнителна колона: **genre:** "Rock"

## Заявка:

PUT

https://baas.kinvey.com/appdata/kid\_S1rDXLP4N/songs/5c5adb00c892215f50bd6761

Send

Save

Params Authorization Headers (2) Body Pre-request Script Tests Cookies Code Comments (0)

none

form-data

x-www-form-urlencoded

raw

binary

	KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/>	name	Dani California			
<input checked="" type="checkbox"/>	artist	Red Hot Chili Peppers			
<input checked="" type="checkbox"/>	album	Stadium Arcadium			
<input checked="" type="checkbox"/>	time	4:43			
<input checked="" type="checkbox"/>	year	2006			
<input checked="" type="checkbox"/>	genre	Rock			
	Key	Value	Description		

## Отговор:

Body Cookies Headers (10) Test Results Status: 200 OK Time: 1724 ms Size: 637 B Download

Pretty Raw Preview JSON

```
1 {
2   "name": "Dani California",
3   "artist": "Red Hot Chili Peppers",
4   "album": "Stadium Arcadium",
5   "time": "4:43",
6   "year": "2006",
7   "genre": "Rock",
8   "_id": "5c5adb00c892215f50bd6761",
9   "_acl": {
10    "creator": "kid_S1rDXLP4N"
11  },
12  "_kmd": {
13    "lmt": "2019-02-06T15:17:51.182Z",
14    "ect": "2019-02-06T13:02:56.883Z"
15  }
16 }
```

## 6. Вход

Опново отидете на **Authorization** в Postman и изберете **Basic Auth** и въведете потребителско име: "guest" и парола: "guest".

Влизането се извършва със заявка "POST" на следния URL адрес:

[https://baas.kinvey.com/user/kid\\_S1rDXLP4N/login](https://baas.kinvey.com/user/kid_S1rDXLP4N/login)

Също трябва да изпратите своите идентификационни данни чрез JSON тялото::

POST [https://baas.kinvey.com/user/kid\\_S1rDXLP4N/login](https://baas.kinvey.com/user/kid_S1rDXLP4N/login) Send Save

Params Authorization Headers (2) Body Pre-request Script Tests Cookies Code Comments (0)

none form-data x-www-form-urlencoded raw binary JSON (application/json) Beautify

```
1 {  
2   "username": "guest",  
3   "password": "guest"  
4 }
```

След успешно влизане трябва да получите следния отговор:

Body Cookies Headers (10) Test Results Status: 200 OK Time: 2751 ms Size: 701 B Download

Pretty Raw Preview JSON

```
1 {  
2   "_id": "5c59d66206715b6608a4d80d",  
3   "username": "guest",  
4   "_acl": {  
5     "creator": "5c59d66206715b6608a4d80d"  
6   },  
7   "gender": "female",  
8   "age": 19,  
9   "firstName": "Sara",  
10  "lastName": "Harper",  
11  "_kmd": {  
12    "lmt": "2019-02-06T10:08:38.207Z",  
13    "ect": "2019-02-05T18:30:58.293Z",  
14    "authToken": "8eb37864-f31a-4ae7-a777-88851bb85aa0.db1BF4eU2oOGXz2qn2Vwe3RIU7Ee0vwZ//Sydodc6ho=",  
15  }  
16 }
```

Запазете **authToken**, защото ще ви е необходим за крайната задача.

## 7. \*Бонус: Излез от профила си

И накрая, трябва да излезем от приложението. Променете **Authorization** на "No Auth". За целта трябва да изпратим заявка "POST" на следния URL адрес: [https://baas.kinvey.com/user/kid\\_S1rDXLP4N/logout](https://baas.kinvey.com/user/kid_S1rDXLP4N/logout)

Спомняте ли си този дълъг **authorization** token? Сега трябва да го копираме и да го поставим в секцията "Headers" на **Postman**:

POST [https://baas.kinvey.com/user/kid\\_S1rDXLP4N/logout](https://baas.kinvey.com/user/kid_S1rDXLP4N/logout) Send Save

Params Authorization Headers (2) Body Pre-request Script Tests Cookies Code Comments (0)

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> Content-Type	application/json	
<input checked="" type="checkbox"/> Authorization	Kinvey 7e442b44-e7b6-4253-a7ad-32e5e5fa1...	
Key	Value	Description

След като щракнете върху "Send", отговорът трябва да бъде празен. Ако го направите отново, трябва да предизвика грешка.

