

Habit Tracker API

Authentication Endpoints - api/auth.php

Login

- Method: GET
- Parameters: username (string), password (string)
- Returns: JSON object with user data and a session token if successful
- Throws: Exception if no results found
- HTTP Response Codes:
 - 200 if successful
 - 204 if no results found
 - 400 if parameters are missing or invalid

Example Request:

```
GET /auth.php?username=johndoe&password=pass123
```

Example Response:

```
[
  {
    "id": "1",
    "username": "johndoe",
    "email": "johndoe@example.com",
    "admin": "0",
    "created": "2022-12-31 23:59:59",
    "session": "9tAKsZ7rxW2s8Yr7TjTbTcJTjVgsTtJ4hKj4D4PmDKZzt0eI1jYw1mJlKTlLNmb"
  }
]
```

Register

- Method: POST
- Parameters: username (string), password (string), email (string)
- Returns: "Created" message if successful
- HTTP Response Codes:
 - 200 if successful
 - 400 if parameters are missing or invalid, or username or email already in use

Example Request:

```
POST /auth.php?username=johndoe&password=pass123&email=johndoe@example.com
```

Example Response:

```
Created
```

Get User Info

- Method: PUT
- Parameters: session (string)
- Returns: JSON object with user data if session is valid and not expired
- HTTP Response Codes:
 - 200 if successful
 - 400 if parameters are missing or invalid
 - 401 if session is expired

Example Request:

```
PUT /auth.php?
session=9tAKsZ7rxW2s8Yr7TjTbTcJTjVgsTtJ4hKj4D4PmDKZzt0eI1jYw1mJlKTlLNmb
```

Example Response:

```
[
  {
    "id": "1",
    "username": "johndoe",
    "email": "johndoe@example.com",
    "admin": "0",
    "created": "2022-12-31 23:59:59"
  }
]
```

CRUD Endpoints - api/crud.php

Creating a habit

- Method: POST
- Parameters: session (string), task (string), tag (string), start (string), end(string)
- Date Format: yyyy-mm-dd
- Returns: "Created" message if successful
- HTTP Response Codes:
 - 200 if successful
 - 400 if parameters are missing or invalid

Example request:

```
POST /crud.php?
session=9tAKsZ7rxW2s8Yr7TjTbTcJTjVgsTtJ4hKj4D4PmDKZzt0eI1jYw1mJlKTlLNmb&task=Re
ad%20a%20book&tag=Reading&start=2022-01-01&end=2022-01-31
```

Example response:

```
HTTP/1.1 200 OK
Content-Length: 7

Created
```

Retrieving habits

- Method: GET
- Parameters: session (string)
- Returns: JSON object with habit data if session is valid and not expired
- HTTP Response Codes:
 - 200 if successful
 - 400 if parameters are missing or invalid

Example request:

```
GET /crud.php?  
session=9tAKsZ7rxW2s8Yr7TjTbTcJTjVgsTtJ4hKj4D4PmDKZzt0eI1jYw1mJlKTlLNmb
```

Example response:

```
[  
  {  
    "id": "1",  
    "uid": "123",  
    "task": "Read a book",  
    "tag": "Reading",  
    "start": "2022-01-01",  
    "end": "2022-01-31"  
  }  
]
```

Updating a habit

- Method: PUT
- Parameters: session (string), id (string), task (string - Optional), tag (string - Optional), start (string - Optional), end(string - Optional)
- Date Format: yyyy-mm-dd
- Returns: "Updated" message if successful
- HTTP Response Codes:
 - 200 if successful
 - 400 if parameters are missing or invalid

Example request:

```
PUT /crud.php?  
session=9tAKsZ7rxW2s8Yr7TjTbTcJTjVgsTtJ4hKj4D4PmDKZzt0eI1jYw1mJlKTlLNmb&id=1&ta  
sk=Read%20two%20books
```

Example response:

```
HTTP/1.1 200 OK  
Content-Length: 7  
  
Updated
```

Deleting a habit

- Method: DELETE
- Parameters: session (string), id (string)
- Returns: "Deleted" message if successful
- HTTP Response Codes:
 - 200 if successful
 - 400 if parameters are missing or invalid

Example request:

```
DELETE /crud.php?
session=9tAKsZ7rxW2s8Yr7TjTbTcJTjVgsTtJ4hKj4D4PmDKZzt0eI1jYw1mJlKTlLNmb&id=1
```

Example response:

```
HTTP/1.1 200 OK
Content-Length: 7

Deleted
```

Search Endpoint - api/search.php

Search habits

- Method: GET
- Parameters: session (string), task (string - Optional), tag (string - Optional), start (string - Optional), end(string - Optional)
- Date Format: yyyy-mm-dd
- Returns: JSON object with habit data if session is valid and not expired
- HTTP Response Codes:
 - 200 if successful
 - 400 if parameters are missing or invalid

Example request:

```
GET /search.php?
session=9tAKsZ7rxW2s8Yr7TjTbTcJTjVgsTtJ4hKj4D4PmDKZzt0eI1jYw1mJlKTlLNmb&id=1&task=Read%20two%20books
```

Example response:

```
[
  {
    "id": "1",
    "uid": "123",
    "task": "Read a book",
    "tag": "Reading",
    "start": "2022-01-01",
    "end": "2022-01-31"
  }
]
```

Calendar Endpoint - api/calendar.php

Calendar Sort habits

- Method: GET
- Parameters: session (string), date (string ['end' or 'first']), date_start (string), date_end (string)
- Date Format: yyyy-mm-dd
- Returns: JSON object with sorted habit data based on dates if session is valid and not expired
- HTTP Response Codes:
 - 200 if successful
 - 400 if parameters are missing or invalid

Example request:

```
GET /calendar.php?
session=9tAKsZ7rxW2s8Yr7TjTbTcJTjVgsTtJ4hKj4D4PmDKZzt0eI1jYw1mJlKTlLNmb&date=20
22-01-01&date_start=2022-01-01&date_end=2022-01-31
```

Example response:

```
[
  {
    "id": "2",
    "uid": "1",
    "task": "test",
    "tag": "tested",
    "start": "2023-02-14 00:00:00",
    "end": "2023-02-15 00:00:00",
    "created": "2023-02-14 19:23:28"
  },
  {
    "id": "3",
    "uid": "1",
    "task": "TestTask",
    "tag": "TestTag",
    "start": "2023-02-27 00:00:00",
    "end": "2023-02-28 00:00:00",
    "created": "2023-02-27 19:50:45"
  }
]
```

Statistics Endpoint - api/statistics.php

Calculate Stats for Habits

- Method: GET
- Parameters: session (string), date (string), length (string)
- Date Format: yyyy-mm-dd

- Returns: JSON object with sorted habit data based on dates if session is valid and not expired
- HTTP Response Codes:
 - 200 if successful
 - 400 if parameters are missing or invalid

Example request:

```
GET /statistics.php?
session=9tAKsZ7rxW2s8Yr7TjTbTcJTjVgsTtJ4hKj4D4PmDKZzt0eI1jYw1mJlKTlLNmb&date=20
22-01-01&date=2022-01-01&length=60
```

Example response:

```
[
  {
    "HabitsCount": 2,
    "TagPercent": {
      "tested": 50,
      "TestTag": 50
    },
    "HabitsDays": [
      {
        "end": "2023-02-15 00:00:00",
        "count": "1"
      },
      {
        "end": "2023-02-28 00:00:00",
        "count": "1"
      }
    ],
    "ShortestHabit": "1",
    "LongestHabit": "3"
  }
]
```

Goals Endpoint - api/goals.php

Create Goals

- Method: POST
- Parameters: session (string), tag (string), goal (string), end (string)
- Date Format: yyyy-mm-dd
- Returns: Created or Failed
- HTTP Response Codes:
 - 200 if successful
 - 400 if parameters are missing or invalid

Example request:

```
GET /goals.php?
session=9tAKsZ7rxW2s8Yr7TjTbTcJTjVgsTtJ4hKj4D4PmDKZzt0eI1jYw1mJlKTlLNmb&goal=dr
ink&end=2022-01-01
```

Example response:

```
HTTP/1.1 200 OK
Content-Length: 7

Created
```

Get Goals

- Method: GET
- Parameters: session (string)
- Date Format: yyyy-mm-dd
- Returns: JSON object with goals for that user
- HTTP Response Codes:
 - 200 if successful
 - 400 if parameters are missing or invalid

Example request:

```
GET /goals.php?
session=9tAKsZ7rxW2s8Yr7TjTbTcJTjVgsTtJ4hKj4D4PmDKZzt0eI1jYw1mJlKTlLNmb
```

Example response:

```
[
  {
    "id": "3",
    "uid": "1",
    "tag": "TestTag",
    "end": "2023-02-28 00:00:00",
    "created": "2023-02-27 19:50:45"
  }
]
```

Delete Goal

- Method: DELETE
- Parameters: session (string), id (string)
- Date Format: yyyy-mm-dd
- Returns: Deletes the goal
- HTTP Response Codes:
 - 200 if successful
 - 400 if parameters are missing or invalid

Example request:

```
GET /goals.php?
session=9tAKsZ7rxW2s8Yr7TjTbTcJTjVgsTtJ4hKj4D4PmDKZzt0eI1jYw1mJlKTlLNmb&id=1
```

Example response:

```
HTTP/1.1 200 OK
Content-Length: 7

Deleted
```

Leaderboard Endpoint - api/leaderboard.php

Get leaderboard

- Method: GET
- Parameters: session (string)
- Date Format: yyyy-mm-dd
- Returns: returns Leaderboard JSON object
- HTTP Response Codes:
 - 200 if successful
 - 400 if parameters are missing or invalid

Example request:

```
GET /leaderboard.php?
session=9tAKsZ7rxW2s8Yr7TjTbTcJTjVgsTtJ4hKj4D4PmDKZzt0eI1jYw1mJlKTlLNmb
```

Example response:

```
[
  {
    "username": "Admin",
    "score": "1"
  },
  {
    "username": "TestCustomer",
    "score": "2"
  }
]
```