

Review System Backend APIs

Documentation

The Review System Backend APIs offer a set of endpoints to facilitate user authentication, registration, and interaction with the review and rating functionalities.

To get started, users must authenticate through the login endpoint, after which they will receive an access token. This token is required for authorization when accessing other functionalities.

BASE_URL

The base URL for the Review System Backend APIs is:

<https://api.aireviewcreator.com/api/>

All endpoints provided in this documentation should be appended to this BASE URL.

Authentication

1. User Login

Example POST Request

Endpoint: `POST <https://api.aireviewcreator.com/api/login>`

```
{
  "username": "Vasu",
  "password": "Vasu123"
}
```

On success, the server returns an access token. This token is required for authorization in subsequent requests. Put this token in Authorization header.

```
{
  "refresh":
  "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ0b2t1b190eXB1IjoicmVmcmVzaCI6ImV4cCI6MTcwN
```

```
jE4MzY3NywiaWF0IjoxNzAzNTkxNjc3LCJqdGkiOiIxNDNjMzY2MWI3ZDY0NDJiOTI5NzNkMmI5NTVmYzJj
ZiIsInVzZXJfaWQiOiJF9.21nwtO355F8Q7VeH-URpLQqZdZtnDjazYHAcJNpcP10",
  "access":
"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ0b2t1b190eXB1IjoieYWNjZXNzIiwiaXhwIjoxNzA0O
Dg3Njc3LCJpYXQiOiJF3MDM1OTE2NzcsImp0aSI6Ijg0NzMyZDlmMGE5MzRkOGJiZTI4NDM1MmRmYzJkZjE0
IiwidXNlc19pZCI6MX0.UxJsU3_ymlKTur0uXxC01D5OuU6--m6Uyger-Qoc7wo"
}
```

2. User Registration

Example POST Request

Allows users to register by providing necessary registration information (e.g., username, first name, last name, email, password).

Endpoint: `POST <https://api.aireviewcreator.com/api/register>`

```
{
  "username": "Vasu",
  "password": "Vasu",
  "first_name": "Vasu",
  "last_name": "Choudhary",
  "email": "vasuchoudhary123@gmail.com"
}
```

On success, the server provides a confirmation message along with user information like the following JSON response.

```
{
  "status": 201,
  "user_info": {
    "username": "Vasu",
    "first_name": "Vasu",
    "last_name": "Choudhary",
    "email": "vasuchoudhary123@gmail.com"
  }
}
```

```
}
```

Authorised Endpoints:

For the following endpoints, users must include the access token (they will get on login) in the Authorization header of the request.

Error :

In case, authentication access token is not provided then, the server will throw an error Response like below:

```
{
  "detail": "Authentication credentials were not provided."
}
```

To resolve the above error, the user should be saved into the database using register api. After registration, User can login to retrieve the access token.

Use the access token in the Authorization header for making API requests.

3. Submit Rating

Example POST Request

Allows authenticated users to submit a rating for a particular product or service and get a list of suggested words.

Endpoint: `POST https://api.aireviewcreator.com/api/rating`

Authorization: Bearer <your_access_token>

```
{
  "star_rating" : "3",
  "product_name": "Boat Earbuds"
}
```

On success with the integration of chatgpt, the server provides the best describing words in a list like the following JSON response.

```
{
  "uggestions": [
    "Comfortable",
    "Stylish",
    "Affordable",
    "Reliable",
    "Decent sound quality"
  ]
}
```

4. Generate Review

Example POST Request

This will generate an automatic detailed review on the basis of star rating and the suggested words from chatgpt.

Endpoint: `POST <https://api.aireviewcreator.com/api/review>`

Authorization: Bearer <your_access_token>

```
{
  "star_rating" : "3",
  "user_word" : "Neutral, average, satisfactory, acceptable, standard, decent, usual",
  "product_name": "Boat Earbuds"
}
```

On success, the server provides a detailed automatic review with the integration of chatgpt like the following JSON response.

```
{
```

```
"review": "The Boat Earbuds are average and offer a satisfactory experience. They are acceptable for everyday use and provide a standard sound quality. The design is decent and comfortable to wear. The earbuds perform as expected and deliver the usual features that you would find in earbuds in this price range. They are a decent option for anyone looking for a basic pair of earbuds without breaking the bank. Overall, for the price, the Boat Earbuds deliver a standard performance that will meet the needs of most users."
}
```

4. User Logout

Allows the users to log out by invalidating their access token. On success, the server provides a confirmation message along with HTTP status code.

Endpoint: `POST https://api.aireviewcreator.com/api/logout`

Authorization: Bearer <your_access_token>

```
{
  "status": 200,
  "message": "Logout successfully"
}
```

API to get the reviews:

NOTE POINT: The endpoint is the same for both GET reviews and POST reviews requests.

Example GET Request

Endpoint: `POST https://api.aireviewcreator.com/api/reviews`

Authorization: Bearer <your_access_token>

This api will retrieve the reviews from the database along with the review id which is unique.

The product_id is required while making GET request.

The no. of reviews available/stored in the database on a particular product_id will be retrieved for a specific user_id0, example the following JSON Response.

```
{
  "status": 200,
  "message": "Product reviews retrieved successfully!",
  "data": [
    {
      "id": 14,
      "star_rating": 5,
      "name": "Vasu",
      "email": "vasu@gmail.com",
      "product_id": 4,
      "review": "The Boat Earbuds and I must say, they are pretty average.
The sound quality is satisfactory for everyday use. The design is standard, nothing
too fancy but decent enough. They also come with a good battery life.",
      "image": "/media/product_images/ve-logo-with-slogan.png",
      "created_at": "2024-01-24T04:51:01.672751Z"
    },
    {
      "id": 15,
      "star_rating": 5,
      "name": "Vasu",
      "email": "vasu@gmail.com",
      "product_id": 4,
      "review": "The Boat Earbuds and I must say, they are pretty average.
The sound quality is satisfactory for everyday use. The design is standard, nothing
too fancy but decent enough. They also come with a good battery life.",
      "image": "/media/product_images/ve-logo-with-slogan_slR89IT.png",
      "created_at": "2024-01-24T05:01:50.488622Z"
    },
    {
      "id": 16,
      "star_rating": 5,
      "name": "Vasu",
      "email": "vasu123@gmail.com",
      "product_id": 4,
      "review": "The Boat Earbuds and I must say, they are pretty average.
The sound quality is satisfactory for everyday use. The design is standard, nothing
too fancy but decent enough. They also come with a good battery life.",
```

```
    "image": "/media/uploaded_images/ve-logo-with-slogan_LaKMuAT.png",  
    "created_at": "2024-01-24T07:03:39.027927Z"  
  }  
]  
}
```

In case if there are no reviews (zero reviews) in the database, then Api will give this JSON response.

```
{  
  "status": 404,  
  "message": "No reviews found for the specified product_id."  
}
```

API to write a review:

Example POST Request

Endpoint: `POST <https://api.aireviewcreator.com/api/reviews>`

Authorization: Bearer <your_access_token>

The user will enter some input values like star_rating, generated review, his email and name, upload a product image, product_id to make the POST request. Then his review (on a particular product_id) will be saved into the database.

```
{  
  "star_rating" : "3",  
  "email" : "abc@gmail.com",  
  "name": "abc",  
  "product_id": "3",  
  "image": "",  
  "review": "I recently got the Boat Earbuds and I must say, they are pretty average.  
The sound quality is satisfactory for everyday use. The design is standard, nothing
```

```
too fancy but decent enough. They also come with a good battery life, which is
usual for earbuds in this price range. Overall, if you're looking for a simple and
reliable pair of earbuds, the Boat Earbuds are a decent choice. I would give them 5
stars for being an affordable and reliable option."
}
```

On success, the server provides the following JSON response format. And each review posted, will now have a unique review_id saved in the database.

```
{
{
  "status": 201,
  "message": "Product review added!",
  "data": {
    "id": 19,
    "star_rating": 5,
    "name": "Vasu",
    "email": "vasu@gmail.com",
    "product_id": 4,
    "review": "I recently got the Boat Earbuds and I must say, they are pretty
average. The sound quality is satisfactory for everyday use. The design is
standard, nothing too fancy but decent enough. They also come with a good battery
life, which is usual for earbuds in this price range. Overall, if you're looking
for a simple and reliable pair of earbuds, the Boat Earbuds are a decent choice. I
would give them 5 stars for being an affordable and reliable option.",
    "image": null,
    "created_at": "2024-01-24T07:03:39.027927Z"
  }
}
```

CRUD APIs for review tone and styles:

1. Getting the review tones list.
2. Adding new review tones (admin_only).
3. Edit a particular review tone existing in the database.
4. Deleting a review tone from the database.

1.Listing the review tone and styles from the database:

Endpoint: `GET https://api.aireviewcreator.com/api/review-tones``

```
{
  "status": 200,
  "message": "Review tone Retrieved successfully!",
  "data": [
    {
      "id": 4,
      "name": "Casual and Conversational"
    },
    {
      "id": 2,
      "name": "Honest"
    },
    {
      "id": 1,
      "name": "Professional and Informative"
    }
  ]
}
```

2.Adding new review tone and styles in database (admin_only):

Endpoint: `POST`

`https://api.aireviewcreator.com/api/review-tones/create``

Authorization: Bearer `<your_access_token>`

Only the admin can add new review tone and style options in the database, either using Postman or admin has direct access to the database and add more options there.

```
{
  "name": "Casual nd Conservative"
}
```

The review tone and styles will be saved in the database.

```
{
  "status": 201,
  "message": "Product review added!",
}
```

```
{
  "data": {
    "id": 6,
    "name": "Casual nd Conservative"
  }
}
```

3.Update existing review tone and styles in the database:

Endpoint: `PUT <https://api.aireviewcreator.com/api/review-tones/id>`

Authorization: Bearer <your_access_token>

```
{
  "name": "Professional and Informative"
}
```

The particular review tone and style like for id=1 will be updated in the database.

```
{
  "status": 200,
  "message": "Review tone Updated successfully!",
  "data": {
    "id": 1,
    "name": "Professional and Informative"
  }
}
```

4.Delete any review tone and style from the database:

Endpoint: `DELETE

[https://api.aireviewcreator.com/api/review-tones/id`](https://api.aireviewcreator.com/api/review-tones/id)

Authorization: Bearer <your_access_token>

Example: Admin wants to delete review tone from the database, say review tone with id =1, it will be deleted directly from the database because admin has the access.

```
{  
  "status": 204,  
  "message": "Review tone Deleted successfully!"  
}
```