

Food Celebrator API Documentation

Authentication Endpoints

- `POST /api/auth/register` → Register a new user
- `POST /api/auth/login` → Log in a user and return a token
- `GET /api/auth/me` → Get logged-in user data (requires authentication)

User Endpoints

- `POST /api/users` → Create a new user
- `GET /api/users` → Fetch all users
- `DELETE /api/users/:id` → Delete a user by ID

Picture Endpoints

- `POST /api/pictures` → Create a new picture
- `GET /api/pictures` → Fetch all pictures
- `GET /api/pictures/:pictureId` → Fetch a picture by ID
- `DELETE /api/pictures/:id` → Delete a picture by ID

User-Picture Linking Endpoints

- `POST /api/users/:userId/pictures/:pictureId` → Link a user to a picture
- `GET /api/users/:userId/pictures` → Fetch all pictures linked to a user
- `DELETE /api/users/:userId/pictures/:pictureId` → Unlink a user from a picture
- `GET /api/users_x_pictures` → Fetch all user-picture links

Username-based Picture Endpoints

- `GET /api/username/:username/pictures` → Fetch all pictures uploaded by a specific username
- `GET /api/username/:username/pictures/:pictureid` → Fetch a specific picture by a username and picture ID

Feed Endpoints

- GET /api/feed → Fetch the global picture feed
- GET /api/feed?limit=:limit&offset=:offset → Fetch paginated picture feed

Image Upload Endpoint

- POST /api/upload → Upload an image (performs face detection and object classification before uploading)

Comment Endpoints

- POST /api/createComment → Create a comment on a picture
- PUT /api/editComment → Edit a comment
- DELETE /api/deleteComment → Delete a comment
- GET /api/:pictureId/comments → Fetch all comments for a specific picture

Like Endpoints

- POST /api/createLike → Create a like on a picture
- DELETE /api/deleteLike → Delete a like
- GET /api/:pictureId/likes → Fetch all likes for a specific picture

Bio and Profile Picture Endpoints

- PUT /api/:username/bio → Update user bio by username
- GET /api/:username/bio → Fetch user bio by username
- GET /api/:username/profilepic → Fetch user profile picture number by username
- PUT /api/:username/profilepic → Update user profile picture number by username

Static File Serving

- GET / → Serve the frontend index page
 - GET /assets/* → Serve static assets from the frontend build
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Further Explanation

POST /api/auth/register

- **Description:** Registers a new user.

- **Request Body:** JSON object containing:
 - `username` (string)
 - `password` (string)
 - `email` (string)
 - **Response:** Returns the newly created user data.
 - **Errors:** May return error details if the input is invalid or the username/email is already taken.
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POST /api/auth/login

- **Description:** Authenticates a user and returns a token.
 - **Request Body:** JSON object containing:
 - `username` (string)
 - `password` (string)
 - **Response:** JSON object with a `token` field.
 - **Errors:** Returns error if the username is not found or the password is incorrect.
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GET /api/auth/me

- **Description:** Retrieves data for the logged-in user.
 - **Headers:** Must include an `Authorization` header with a valid token.
 - **Response:** User data (without password).
 - **Errors:** Returns an error if authentication fails.
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2. User Endpoints

POST /api/users

- **Description:** Creates a new user.
- **Request Body:** JSON object containing:
 - `username` (string)
 - `password` (string)
 - `email` (string)

- **Response:** Returns the created user object.
 - **Errors:** Similar to registration errors.
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GET /api/users

- **Description:** Fetches a list of all users.
 - **Response:** JSON array of users (each with `id`, `username`, `email`, and `created_at`).
 - **Errors:** Returns an error on failure.
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DELETE /api/users/:id

- **Description:** Deletes a user by their unique ID.
 - **Path Parameter:**
 - `id` (UUID of the user)
 - **Response:** Returns the deleted user record.
 - **Errors:** Returns error if the user is not found.
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3. Picture Endpoints

POST /api/pictures

- **Description:** Creates a new picture record.
 - **Request Body:** JSON object containing:
 - `url` (string): The URL of the image.
 - `caption` (string): An optional caption.
 - **Response:** Returns the newly created picture object.
 - **Errors:** Returns error details if creation fails.
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GET /api/pictures

- **Description:** Retrieves all pictures.
- **Response:** JSON array of pictures (with fields like `id`, `url`, `caption`, and `created_at`).

GET /api/pictures/:pictureId

- **Description:** Retrieves a picture by its ID.
 - **Path Parameter:**
 - `pictureId` (UUID)
 - **Response:** JSON object of the requested picture.
 - **Errors:** Returns error if the picture is not found.
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DELETE /api/pictures/:id

- **Description:** Deletes a picture by its unique ID.
 - **Path Parameter:**
 - `id` (UUID)
 - **Response:** Returns the deleted picture record.
 - **Errors:** Returns error if deletion fails.
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4. User-Picture Linking Endpoints

POST /api/users/:userId/pictures/:pictureId

- **Description:** Links a user to a picture (creates an association).
 - **Path Parameters:**
 - `userId` (UUID)
 - `pictureId` (UUID)
 - **Response:** Returns the created user-picture link record.
 - **Errors:** Returns error if linking fails.
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GET /api/users/:userId/pictures

- **Description:** Fetches all pictures linked to a specific user.
- **Path Parameter:**
 - `userId` (UUID)

- **Response:** JSON array of pictures associated with the user.
 - **Errors:** Returns error if the user is not found.
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DELETE /api/users/:userId/pictures/:pictureId

- **Description:** Removes the link between a user and a picture.
 - **Path Parameters:**
 - `userId` (UUID)
 - `pictureId` (UUID)
 - **Response:** Returns the deleted link record.
 - **Errors:** Returns error if the link does not exist.
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GET /api/users_x_pictures

- **Description:** Fetches all user-picture link records.
 - **Response:** JSON array of all links between users and pictures.
 - **Errors:** Returns error if retrieval fails.
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5. Username-based Picture Endpoints

GET /api/username/:username/pictures

- **Description:** Fetches all pictures uploaded by a specific username.
 - **Path Parameter:**
 - `username` (string)
 - **Response:** JSON array containing picture data associated with the username.
 - **Errors:** Returns error if the user is not found.
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GET /api/username/:username/pictures/:pictureId

- **Description:** Fetches a specific picture by a username and picture ID.
- **Path Parameters:**

- `username` (string)
 - `pictureid` (UUID)
 - **Response:** JSON object with the picture details.
 - **Errors:** Returns error if no matching picture is found.
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6. Feed Endpoints

GET /api/feed

- **Description:** Retrieves the global picture feed.
 - **Response:** JSON array of feed items (includes picture URL, caption, creation time, associated username, and profile picture number).
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GET /api/feed?limit=:limit&offset=:offset

- **Description:** Retrieves a paginated picture feed.
 - **Query Parameters:**
 - `limit` (number): The maximum number of items to return.
 - `offset` (number): The number of items to skip.
 - **Response:** JSON array of feed items.
 - **Errors:** Returns error if `limit` or `offset` are invalid.
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7. Image Upload Endpoint

POST /api/upload

- **Description:** Uploads an image with several validation steps:
 - **Face Detection:** Rejects the image if a face is detected.
 - **Object Localization:** Checks for person objects and rejects if found.
 - **Label Detection:** Validates labels against allowed labels.
- **Request:**
 - **Content Type:** `multipart/form-data`
 - **Fields:**
 - `image` : The image file.

- `caption` : (Optional) A caption for the picture.
 - **Headers:** Must include a valid `Authorization` token.
 - **Process:**
 1. Validates presence of an image and token.
 2. Uses Google Cloud Vision API for image analysis.
 3. Saves the image temporarily and uploads it to an external server.
 4. Creates a picture record and links it to the user.
 - **Response:** JSON object containing a success message, the new picture record, and logs of the processing steps.
 - **Errors:** Returns error if image validations fail or if the upload encounters issues.
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8. Comment Endpoints

POST /api/createComment

- **Description:** Creates a comment on a picture.
 - **Request Body:** JSON object containing:
 - `user_id` (UUID)
 - `picture_id` (UUID)
 - `content` (string)
 - **Response:** JSON object with a success message and the created comment.
 - **Errors:** Returns error if comment creation fails.
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PUT /api/editComment

- **Description:** Edits an existing comment.
 - **Request Body:** JSON object containing:
 - `comment_id` (UUID)
 - `content` (string): The updated comment text.
 - **Response:** JSON object with the updated comment record.
 - **Errors:** Returns error if the comment is not found or the update fails.
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DELETE /api/deleteComment

- **Description:** Deletes a comment.
 - **Request Body:** JSON object containing:
 - `comment_id` (UUID)
 - **Response:** Returns the deleted comment record.
 - **Errors:** Returns error if deletion fails.
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GET /api/:pictureId/comments

- **Description:** Fetches all comments for a specific picture.
 - **Path Parameter:**
 - `pictureId` (UUID)
 - **Response:** JSON array of comment records including:
 - User details (`user_id` , `username`)
 - Comment content and creation time.
 - **Errors:** Returns error if the picture or comments are not found.
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9. Like Endpoints

POST /api/createLike

- **Description:** Creates a like on a picture.
 - **Request Body:** JSON object containing:
 - `user_id` (UUID)
 - `picture_id` (UUID)
 - **Response:** JSON object with a success message and the created like record.
 - **Errors:** Returns error if the like cannot be created.
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DELETE /api/deleteLike

- **Description:** Deletes a like.
- **Request Body:** JSON object containing:
 - `like_id` (UUID)
- **Response:** Returns the deleted like record.

- **Errors:** Returns error if deletion fails.
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GET /api:pictureId/likes

- **Description:** Fetches all likes for a specific picture.
 - **Path Parameter:**
 - `pictureId` (UUID)
 - **Response:** JSON array containing details of each like including:
 - User information (`user_id` , `username`)
 - The like's ID and creation time.
 - **Errors:** Returns error if retrieval fails.
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10. Bio and Profile Picture Endpoints

PUT /api:username/bio

- **Description:** Updates a user's bio.
 - **Path Parameter:**
 - `username` (string)
 - **Request Body:** JSON object containing:
 - `updatedBio` (string)
 - **Response:** Returns the updated bio.
 - **Errors:** Returns error if the user is not found.
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GET /api:username/bio

- **Description:** Retrieves a user's bio.
 - **Path Parameter:**
 - `username` (string)
 - **Response:** JSON object containing the bio.
 - **Errors:** Returns error if the user is not found.
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GET /api/:username/profilepic

- **Description:** Retrieves the profile picture number for a user.
 - **Path Parameter:**
 - `username` (string)
 - **Response:** JSON object containing:
 - `profile_pic_num` (number)
 - **Errors:** Returns error if the user is not found.
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PUT /api/:username/profilepic

- **Description:** Updates the profile picture number for a user.
 - **Path Parameter:**
 - `username` (string)
 - **Request Body:** JSON object containing:
 - `profile_pic_num` (number)
 - **Response:** Returns the updated profile picture number.
 - **Errors:** Returns error if the user is not found.
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11. Static File Serving

GET /

- **Description:** Serves the frontend index page.
 - **Response:** HTML page (the client-side application).
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GET /assets/*

- **Description:** Serves static assets (e.g., JavaScript, CSS, images) from the frontend build.
 - **Response:** Returns the requested static file.
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