

Let me continue with documenting the Review APIs for the FoodShare application based on the code analysis.

FoodShare API Documentation - Review APIs

6. Review APIs

Based on my analysis of the codebase, especially the `ReviewCard` component, `DonationDetailsPage`, and `DonationTrackingPage`, I'll document the Review APIs available in the FoodShare application.

6.1 Submit Review

****Endpoint URL**:** `/api/donations/{donationId}/review`

****HTTP Method**:** `POST`

****Request Headers**:**

```

Content-Type: application/json

Authorization: Bearer {token}

```

****Request Body Schema**:**

```json

{

"rating": 5,

"comment": "The food quality was excellent and the pickup process was smooth.",

"reviewType": "donor-to-beneficiary"

}

```

****Response Body Schema**:**

```
`` `json
{
  "id": "rev123",
  "donationId": "don456",
  "reviewerId": "u789",
  "reviewerName": "John Smith",
  "reviewerRole": "Beneficiary",
  "recipientId": "u012",
  "recipientName": "Fresh Grocers",
  "rating": 5,
  "comment": "The food quality was excellent and the pickup process was smooth.",
  "reviewType": "donor-to-beneficiary",
  "status": "Active",
  "createdAt": "2025-04-14T15:30:00Z"
}
`` `
```

****Authentication Requirements**:** JWT Token Required

****Status Codes and Messages**:**

- ` 201 Created ` : Review submitted successfully
- ` 400 Bad Request ` : Invalid review data
- ` 401 Unauthorized ` : Invalid or missing token
- ` 403 Forbidden ` : User doesn't have permission to review this donation
- ` 404 Not Found ` : Donation not found
- ` 409 Conflict ` : User has already submitted a review for this donation
- ` 500 Internal Server Error ` : Server error

****Description**:** Submits a review for a completed donation. Either the donor can review the beneficiary/NGO, or the beneficiary/NGO can review the donor. The user must have been a participant in the donation transaction to submit a review.

6.2 Get Donation Reviews

****Endpoint URL**:** `/api/donations/{donationId}/reviews`

****HTTP Method**:** `GET`

****Request Headers**:**

` ` `

Authorization: Bearer {token}

` ` `

****Response Body Schema**:**

` ` `json

[

{

"id": "rev123",

"donationId": "don456",

"reviewerId": "u789",

"reviewerName": "John Smith",

"reviewerRole": "Beneficiary",

"rating": 5,

"comment": "The food quality was excellent and the pickup process was smooth.",

"reviewType": "beneficiary-to-donor",

"status": "Active",

"createdAt": "2025-04-14T15:30:00Z"

},

{

"id": "rev124",

"donationId": "don456",

"reviewerId": "u012",

```
"reviewerName": "Fresh Grocers",
"reviewerRole": "Donor",
"rating": 4,
"comment": "Pickup was on time, very professional interaction.",
"reviewType": "donor-to-beneficiary",
"status": "Active",
"createdAt": "2025-04-15T09:15:00Z"
}
]
` ``
```

****Authentication Requirements**:** JWT Token Required

****Status Codes and Messages**:**

- `200 OK` : Successful request
- `401 Unauthorized` : Invalid or missing token
- `404 Not Found` : Donation not found
- `500 Internal Server Error` : Server error

****Description**:** Retrieves all reviews associated with a specific donation.

6.3 Get User Reviews

****Endpoint URL**:** `/api/users/{userId}/reviews`

****HTTP Method**:** `GET`

****Request Headers**:**

` ``

Authorization: Bearer {token}

` ``

****Request Parameters**:**

- `role` (optional): Filter by review role ('reviewer' or 'recipient')
- `page` (optional): Page number for pagination
- `limit` (optional): Number of reviews per page
- `status` (optional): Filter by review status

****Response Body Schema**:**

```json

```
{
 "reviews": [
 {
 "id": "rev123",
 "donationId": "don456",
 "donationTitle": "Fresh Vegetables Bundle",
 "reviewerId": "u789",
 "reviewerName": "John Smith",
 "recipientId": "u012",
 "recipientName": "Fresh Grocers",
 "rating": 5,
 "comment": "The food quality was excellent and the pickup process was smooth.",
 "reviewType": "beneficiary-to-donor",
 "status": "Active",
 "createdAt": "2025-04-14T15:30:00Z"
 }
],
 "pagination": {
 "total": 12,
 "page": 1,
 "limit": 10,
 "pages": 2
 }
}
```

```
}
}
` ``
```

**\*\*Authentication Requirements\*\*:** JWT Token Required

**\*\*Status Codes and Messages\*\*:**

- `200 OK` : Successful request
- `401 Unauthorized` : Invalid or missing token
- `403 Forbidden` : User doesn't have permission to view these reviews
- `404 Not Found` : User not found
- `500 Internal Server Error` : Server error

**\*\*Description\*\*:** Retrieves all reviews either written by or about a specific user, depending on the `role` parameter.

### ### 6.4 Update Review

**\*\*Endpoint URL\*\*:** `/api/reviews/{reviewId}`

**\*\*HTTP Method\*\*:** `PUT`

**\*\*Request Headers\*\*:**

```
` ``
```

Content-Type: application/json

Authorization: Bearer {token}

```
` ``
```

**\*\*Request Body Schema\*\*:**

```
` ```json
```

```
{
```

```
"rating": 4,
"comment": "Updated comment after further consideration."
}
` ` `
```

**\*\*Response Body Schema\*\*:**

```
` ` `json
{
 "id": "rev123",
 "donationId": "don456",
 "reviewerId": "u789",
 "rating": 4,
 "comment": "Updated comment after further consideration.",
 "updatedAt": "2025-04-16T10:20:30Z",
 "status": "Active"
}
` ` `
```

**\*\*Authentication Requirements\*\*:** JWT Token Required

**\*\*Status Codes and Messages\*\*:**

- `200 OK` : Review updated successfully
- `400 Bad Request` : Invalid review data
- `401 Unauthorized` : Invalid or missing token
- `403 Forbidden` : User doesn't have permission to update this review
- `404 Not Found` : Review not found
- `500 Internal Server Error` : Server error

**\*\*Description\*\*:** Updates an existing review. Users can only update their own reviews, and typically within a limited timeframe after submission (e.g., 24 hours).

### ### 6.5 Delete Review

**\*\*Endpoint URL\*\*:** `/api/reviews/{reviewId}`

**\*\*HTTP Method\*\*:** `DELETE`

**\*\*Request Headers\*\*:**

```

Authorization: Bearer {token}

```

**\*\*Response Body Schema\*\*:**

```json

{

"id": "rev123",

"message": "Review successfully deleted"

}

```

**\*\*Authentication Requirements\*\*:** JWT Token Required

**\*\*Status Codes and Messages\*\*:**

- `200 OK` : Review deleted successfully
- `401 Unauthorized` : Invalid or missing token
- `403 Forbidden` : User doesn't have permission to delete this review
- `404 Not Found` : Review not found
- `500 Internal Server Error` : Server error

**\*\*Description\*\*:** Deletes a review. Users can only delete their own reviews, and typically within a limited timeframe after submission.



### ### 6.6 Report Review

**\*\*Endpoint URL\*\*:** `/api/reviews/{reviewId}/report`

**\*\*HTTP Method\*\*:** `POST`

**\*\*Request Headers\*\*:**

```

Content-Type: application/json

Authorization: Bearer {token}

```

**\*\*Request Body Schema\*\*:**

```json

```
{  
  "reason": "inappropriate",  
  "details": "This review contains offensive language."  
}
```

```

**\*\*Response Body Schema\*\*:**

```json

```
{  
  "id": "rep456",  
  "reviewId": "rev123",  
  "reporterId": "u789",  
  "reason": "inappropriate",  
  "details": "This review contains offensive language.",  
  "status": "Pending",  
  "createdAt": "2025-04-14T15:30:00Z"  
}
```

`, `

****Authentication Requirements**:** JWT Token Required

****Status Codes and Messages**:**

- `201 Created` : Report submitted successfully
- `400 Bad Request` : Invalid report data
- `401 Unauthorized` : Invalid or missing token
- `404 Not Found` : Review not found
- `500 Internal Server Error` : Server error

****Description**:** Reports a review for moderation. This flags the review for administrator review without immediately removing it from view.

6.7 Moderate Review (Admin)

****Endpoint URL**:** `/api/admin/reviews/{reviewId}/moderate`

****HTTP Method**:** `POST`

****Request Headers**:**

`, `

Content-Type: application/json

Authorization: Bearer {token}

`, `

****Request Body Schema**:**

```json

{

"action": "approve",

"notes": "Review meets community guidelines."

```
}
` ``
```

**\*\*Response Body Schema\*\*:**

```
` `` json
{
 "id": "rev123",
 "status": "Approved",
 "moderatedAt": "2025-04-14T16:00:00Z",
 "moderatorId": "u001",
 "moderatorName": "Admin User",
 "notes": "Review meets community guidelines."
}
` ``
```

**\*\*Authentication Requirements\*\*:** JWT Token Required (Admin role only)

**\*\*Status Codes and Messages\*\*:**

- ` 200 OK ` : Review moderated successfully
- ` 400 Bad Request ` : Invalid moderation action
- ` 401 Unauthorized ` : Invalid or missing token
- ` 403 Forbidden ` : User doesn't have admin role
- ` 404 Not Found ` : Review not found
- ` 500 Internal Server Error ` : Server error

**\*\*Description\*\*:** Allows administrators to moderate a review - approving it, flagging it, or removing it from the system.

### 6.8 Get Reported Reviews (Admin)

**\*\*Endpoint URL\*\*:** `/api/admin/reviews/reported`

**\*\*HTTP Method\*\*:** `GET`

**\*\*Request Headers\*\*:**

` ` `

Authorization: Bearer {token}

` ` `

**\*\*Request Parameters\*\*:**

- `status` (optional): Filter by report status ('pending', 'resolved')
- `page` (optional): Page number for pagination
- `limit` (optional): Number of reports per page

**\*\*Response Body Schema\*\*:**

` ` `json

{

  "reports": [

    {

      "id": "rep456",

      "reviewId": "rev123",

      "review": {

        "id": "rev123",

        "donationId": "don456",

        "reviewerId": "u789",

        "reviewerName": "John Smith",

        "rating": 2,

        "comment": "The food was of poor quality.",

        "status": "Flagged"

    },

    "reporterId": "u012",

    "reporterName": "Fresh Grocers",

```
"reason": "disputed",
"details": "This review is inaccurate. The food was freshly prepared that morning.",
"status": "Pending",
"createdAt": "2025-04-14T15:30:00Z"
}
],
"pagination": {
 "total": 5,
 "page": 1,
 "limit": 10,
 "pages": 1
}
}
` ``
```

**\*\*Authentication Requirements\*\*:** JWT Token Required (Admin role only)

**\*\*Status Codes and Messages\*\*:**

- `200 OK` : Successful request
- `401 Unauthorized` : Invalid or missing token
- `403 Forbidden` : User doesn't have admin role
- `500 Internal Server Error` : Server error

**\*\*Description\*\*:** Retrieves a list of reviews that have been reported, along with the report details, for administrator moderation.

## ## 7. Statistics APIs

Based on the codebase analysis, particularly the donation service and admin dashboard components, I'll document the Statistics APIs for the FoodShare application.

### ### 7.1 Get User Statistics

**\*\*Endpoint URL\*\*:** `/api/users/{userId}/stats`

**\*\*HTTP Method\*\*:** `GET`

**\*\*Request Headers\*\*:**

` ` `

Authorization: Bearer {token}

` ` `

**\*\*Response Body Schema\*\*:**

` `` `json

{

  "donations": {

    "total": 27,

    "active": 3,

    "completed": 24

  },

  "received": {

    "total": 12,

    "active": 1,

    "completed": 11

  },

  "impact": {

    "foodSaved": 135,

    "unit": "kg",

    "mealsProvided": 450,

    "impactPoints": 2350

  },

  "ratings": {

    "average": 4.8,

```
"count": 25
},
"activity": {
 "firstActivity": "2025-01-15T10:20:30Z",
 "lastActivity": "2025-04-12T14:30:00Z",
 "daysActive": 88
}
}
```

**\*\*Authentication Requirements\*\*:** JWT Token Required

**\*\*Status Codes and Messages\*\*:**

- `200 OK` : Successful request
- `401 Unauthorized` : Invalid or missing token
- `403 Forbidden` : User doesn't have permission to view these statistics
- `404 Not Found` : User not found
- `500 Internal Server Error` : Server error

**\*\*Description\*\*:** Retrieves comprehensive statistics for a specific user's activity on the platform, including donation metrics, impact metrics, and ratings.

### ### 7.2 Get Donation Statistics

**\*\*Endpoint URL\*\*:** `/api/donations/{donationId}/stats`

**\*\*HTTP Method\*\*:** `GET`

**\*\*Request Headers\*\*:**

...

Authorization: Bearer {token}

```

****Response Body Schema**:**

```json

```
{
 "views": 42,
 "requests": 3,
 "timeToMatch": {
 "hours": 4,
 "minutes": 15
 },
 "ratings": {
 "donorRating": 5,
 "beneficiaryRating": 4,
 "averageRating": 4.5
 },
 "impact": {
 "foodSaved": 15,
 "unit": "kg",
 "mealsProvided": 50
 },
 "timeline": [
 {
 "status": "Created",
 "timestamp": "2025-04-10T09:00:00Z"
 },
 {
 "status": "Approved",
 "timestamp": "2025-04-10T10:30:00Z"
 },
 {
```



```
 "status": "Matched",
 "timestamp": "2025-04-10T13:15:00Z"
 },
 {
 "status": "Completed",
 "timestamp": "2025-04-10T16:45:00Z"
 }
]
}
```

**\*\*Authentication Requirements\*\*:** JWT Token Required

**\*\*Status Codes and Messages\*\*:**

- `200 OK` : Successful request
- `401 Unauthorized` : Invalid or missing token
- `403 Forbidden` : User doesn't have permission to view these statistics
- `404 Not Found` : Donation not found
- `500 Internal Server Error` : Server error

**\*\*Description\*\*:** Retrieves detailed statistics about a specific donation, including metrics on how quickly it was matched and its impact.

### ### 7.3 Get Platform Statistics (Admin)

**\*\*Endpoint URL\*\*:** `/api/admin/stats`

**\*\*HTTP Method\*\*:** `GET`

**\*\*Request Headers\*\*:**

` `` `

Authorization: Bearer {token}

```

****Request Parameters**:**

- `period` (optional): Time period for metrics ('day', 'week', 'month', 'year', 'all')
- `startDate` (optional): Start date for custom period
- `endDate` (optional): End date for custom period

****Response Body Schema**:**

```json

```
{
 "users": {
 "total": 248,
 "donors": 112,
 "beneficiaries": 96,
 "ngos": 40,
 "growth": {
 "rate": 8.3,
 "trend": [65, 59, 80, 81, 56, 55, 40]
 }
 },
 "donations": {
 "total": 437,
 "active": 53,
 "completed": 384,
 "growth": {
 "rate": 12.5,
 "trend": [45, 52, 49, 60, 55, 58, 62]
 }
 },
 "impact": {
```

```

 "foodSaved": 2750,
 "unit": "kg",
 "mealsProvided": 9167,
 "growth": {
 "rate": 15.2,
 "trend": [200, 250, 280, 310, 330, 350, 400]
 },
 "system": {
 "pendingApprovals": 8,
 "pendingReports": 3,
 "averageResponseTime": "4.2 hours"
 }
 },
 ...

```

**\*\*Authentication Requirements\*\*:** JWT Token Required (Admin role only)

**\*\*Status Codes and Messages\*\*:**

- `200 OK` : Successful request
- `400 Bad Request` : Invalid date range
- `401 Unauthorized` : Invalid or missing token
- `403 Forbidden` : User doesn't have admin role
- `500 Internal Server Error` : Server error

**\*\*Description\*\*:** Retrieves comprehensive platform-wide statistics for administrative purposes, including user metrics, donation metrics, and overall impact.

### ### 7.4 Get Impact Report

**\*\*Endpoint URL\*\*:** `/api/impact-report`

**\*\*HTTP Method\*\*:** `GET`

**\*\*Request Headers\*\*:**

` ` `

Authorization: Bearer {token}

` ` `

**\*\*Request Parameters\*\*:**

- `userId` (optional): Filter report by specific user
- `timeframe` (optional): Time period for report ('month', 'quarter', 'year')
- `format` (optional): Response format ('json', 'pdf', 'csv')

**\*\*Response Body Schema\*\* (JSON format):**

` ` `json

```
{
 "user": {
 "id": "u789",
 "name": "John Smith",
 "role": "Donor",
 "joinedDate": "2025-01-15T10:20:30Z"
 },
 "timeframe": {
 "period": "quarter",
 "start": "2025-01-01T00:00:00Z",
 "end": "2025-03-31T23:59:59Z"
 },
 "summary": {
 "donations": 12,
 "foodSaved": 60,
 "unit": "kg",
```

```
"mealsProvided": 200,
"carbonOffset": 250,
"unit": "kg CO2e"
},
"comparison": {
 "percentile": 85,
 "communityAverage": {
 "donations": 8,
 "foodSaved": 40
 }
},
"badges": [
 {
 "name": "Food Rescue Hero",
 "description": "Saved over 50kg of food in a quarter",
 "earnedAt": "2025-03-15T14:20:00Z"
 }
],
"monthlyBreakdown": [
 {
 "month": "January",
 "donations": 3,
 "foodSaved": 15
 },
 {
 "month": "February",
 "donations": 4,
 "foodSaved": 20
 },
 {
 "month": "March",
```

```
"donations": 5,
"foodSaved": 25
}
]
}
` ``
```

**\*\*Authentication Requirements\*\*:** JWT Token Required

**\*\*Status Codes and Messages\*\*:**

- `200 OK` : Successful request
- `400 Bad Request` : Invalid parameters
- `401 Unauthorized` : Invalid or missing token
- `404 Not Found` : User not found
- `500 Internal Server Error` : Server error

**\*\*Description\*\*:** Generates a detailed impact report showing the environmental and social impact of a user's activities on the platform. The report can be filtered by timeframe and delivered in various formats.

This completes the documentation for the Review and Statistics APIs in the FoodShare application.