Recorever

User API

API endpoint	register-user	
method	post	
Request Params	**Type**	**Description**
name	string	Name of the user
email	string	User's email address
password	string	User's account password
Creates a new user account in the system.		
Success		
Status Code	201	
Response Type	JSON	
Response Data	**Type**	**Description**
user_id	int	Unique ID of the created report
name	string	Name of the user
email	string	User email address
Sample Response		
{ "user_id": 1, "name": "John Cruz", "email": "john@example.com", "created_at": "2025-10-10T14:00:00Z" }		
Fail		
Status Code	400	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Description of the problem.
Sample Response		
Email already exists.		

API endpoint	login-user	
method	post	
Request Params	**Type**	**Description**
email	string	User email address
password	string	Account password
Authenticates a user and returns an access token.		
Success		
Status Code	200	
Response Type	JSON	
Response Data	**Type**	**Description**
access_token	string	Bearer token
user_id	int	Logged in user ID
user_name	string	Display name of user
Sample Response		

```
{
  "access_token": "abc123xyz456",
  "token_type": "Bearer",
  "expires_in": 3600,
  "user_id": 1,
  "user_name": "John Cruz"
}
```

Fail		
Status Code	401	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Unauthorized access error.
Sample Response		
Invalid email or password.		

API endpoint	get-user-data	
method	get	
Request Params	**Type**	**Description**
id	int	User ID
Retrieves the profile information of a user.		
Success		
Status Code	200	
Response Type	JSON	
Response Data	**Type**	**Description**
user_id	int	User ID
name	string	Full name
email	string	Email address
phone_number	string	User contact number
profile_picture	string	URL to profile picture
Sample Response		

{
  "user_id": 1,
  "name": "John Cruz",
  "email": "john@example.com",
  "phone_number": "+639171234567",
  "profile_picture": "https://example.com/profiles/john.jpg"
}		

Fail		
Status Code	404	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Unauthorized access error.
Sample Response		
User not found.		

API endpoint	update-user-data	
method	put	
Request Params	**Type**	**Description**
name	string	Updated name
phone_number	string	Updated contact number
profile_picture	string	Updated profile image URL
Updates existing user details.		
Success		
Status Code	200	
Response Type	JSON	
Response Data	**Type**	**Description**
success	bool	Operation result
message	string	Update confirmation
Sample Response		

{
  "success": true,
  "message": "Profile updated successfully."
}		

Fail		
Status Code	400	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Validation or server error
Sample Response		
Invalid phone number format.		

API endpoint	delete-user	
method	delete	
Request Params	**Type**	**Description**
id	int	User ID
Soft-deletes the user account by setting delete_at.		
Success		
Status Code	200	
Response Type	JSON	
Response Data	**Type**	**Description**
success	bool	Operation result
message	string	Confirmation result
Sample Response		

{
  "success": true,
  "message": "User account deactivated."
}		

Fail		
Status Code	404	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Error message details
Sample Response		
User not found.		

===

Match API

API endpoint	item-match	
method	post	
Request Params	**Type**	**Description**
lost_report_id	int	ID of the lost item report
found_report_id	int	ID of the found item report
Creates a new record that links a lost item report to a found item report for review or confirmation.		
Success		
Status Code	201	
Response Type	JSON	
Response Data	**Type**	**Description**
match_id	int	ID of the newly created match
lost_report_id	int	Linked lost report
found_report_id	int	Linked found report
status	string	Default status (e.g., "pending")
created_at	string	Timestamp of creation
Sample Response		

{
  "match_id": 1,
  "lost_report_id": 5,
  "found_report_id": 8,
  "status": "pending",
  "created_at": "2025-10-10T14:32:00Z"
}		

Fail		
Status Code	400	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Error message description
Sample Response		
Invalid lost or found report ID.		

API endpoint	get-matches	
method	get	
Request Params	**Type**	**Description**
status	string	Filter by match status (e.g., pending, confirmed)
date	string	Filter matches created on specific date
Creates a new record that links a lost item report to a found item report for review or confirmation.		
Success		
Status Code	200	
Response Type	JSON	
Response Data	**Type**	**Description**
match_id	int	Unique match identifier
lost_report_id	int	Linked lost report
found_report_id	int	Linked found report
status	string	Match status
created_at	string	Date and time created
Sample Response		

[
  {
    "match_id": 1,
    "lost_report_id": 5,
    "found_report_id": 8,
    "status": "pending",
    "created_at": "2025-10-10T14:32:00Z"
  },
  {
    "match_id": 2,
    "lost_report_id": 6,
    "found_report_id": 9,
    "status": "confirmed",
    "created_at": "2025-10-09T18:10:00Z"
  }
]		

Fail		
Status Code	404	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	No results found
Sample Response		
No matches found.		

API endpoint	update-match	
method	put	
Request Params	**Type**	**Description**
id	int	Match ID to be updated
status	string	New status (e.g., confirmed, rejected)
Creates a new record that links a lost item report to a found item report for review or confirmation.		
Success		
Status Code	200	
Response Type	JSON	
Response Data	**Type**	**Description**
match_id	int	ID of the updated match
status	string	Updated status
message	string	Confirmation message
Sample Response		

{
 "match_id": 1,
 "status": "confirmed",
 "message": "Match status updated successfully."
 }		

Fail		
Status Code	404 or 400	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Description of the failure
Sample Response		
No matches found.		

===

Report API

API endpoint	create-report	
method	post	
Request Params	**Type**	**Description**
user_id	int	ID of the user creating the report
type	string	Type of report – "lost" or "found"
item_name	string	Name of the item being reported
location	string	Location where the item was lost or found
description	string	Additional details about the item
date_reported	date	Date the report was made
status	string	Initial status (pending, approve, etc)
Create a new lost or found report		
Success		
Status Code	201	
Response Type	JSON	
Response Data	**Type**	**Description**
report_id	int	Unique ID of the created report
type	string	Reported item name
item_name	string	Reporte item name
status	string	Current report status (pending by default)
Sample Response		

{
      "report_id": 1,
      "type": "found",
      "item_name": "Wallet",
      "status": "pending"
}		

Fail		
Status Code	400	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Error message when report creation fails.
Sample Response		
Failed to create report. Missing required fields.		

API endpoint	get-reports	
method	get	
Request Params	**Type**	**Description**
type	string	Filter reports by "lost" or "found"
status	string	Filter by report status (e.g. "pending", "approved"
location	string	Filter by location keyword
date_reported	date	Filer reports by date
Retrieve all lost or found reports. Can be filtered by type, status, date, or location.		
Success		
Status Code	200	
Response Type	JSON	
Response Data	**Type**	**Description**
reports	array	List of reports objects containing summarized data
Sample Response		

```
[
  {
    "report_id": 2,
    "type": "lost",
    "item_name": "Umbrella",
    "location": "Library",
    "status": "pending"
  },
  {
    "report_id": 3,
    "type": "found",
    "item_name": "Watch",
    "location": "Gym",
    "status": "approved"
  }
]
```

Fail		
Status Code	404	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Returned when no reposts match the filters.
Sample Response		
No reports found.		

API endpoint	get-report	
method	get	
Request Params	**Type**	**Description**
id	int	The ID of the report to retrieve

API endpoint	update-report	
method	put	
Request Params	**Type**	**Description**
id	int	ID of the report to update
status	string	New report status (e.g., "approved", "rejected")

date_resolved	date	When the item was resolved
descript ion	string	Updated description or admin note
Update report details or status (for admin or authorized users).		
Success		
Status Code	200	
Response Type	JSON	
Response Data	**Type**	**Description**
success	boolean	Indicates if the update succeeded
message	string	Confirmation message
Sample Response		

{
    "Success": true,
    "message": "Report updated successfully."
}		

Fail		
Status Code	400	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Reason for failed update
Sample Response		
Faile to update report. Invalid ID.		

API endpoint	delete-report	
method	delete	
Request Params	**Type**	**Description**
id	int	The ID of the report to delete
Delete or cancel a report by its ID.		
Success		
Status Code	200	
Response Type	JSON	
Response Data	**Type**	**Description**
success	boolean	Indecates if the update succeeded
message	string	Confirmation message
Sample Response		

{
    "Success": true,
    "message": "Report deleted successfully."
}		

Fail		
Status Code	404	

Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Error message when report not found
Sample Response		
Failed to delete report. Report not found.		

API endpoint	**upload -report-image**	
method	post	
Request Params	**Type**	**Description**
id	int	ID of the report to attach image(s)
image	file	Image file(s) representing the reported item
Upload one or more image files for a specific report		
Success		
Status Code	200	
Response Type	JSON	
Response Data	**Type**	**Description**
success	boolean	Indecates if the update succeeded
file_url	string	URL path of the uploaded image
Sample Response		

{
    "Success": true,
    "file_url": "https://recorever.com/uploads/report_4_1.jpg"
}		

Fail		
Status Code	400	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Error message for invalid file or upload failure
Sample Response		
Image upload failed. Invalid file type.		

===

<mark>Authorization</mark>

API endpoint	**generate-token**	
method	post	
Request Params	**Type**	**Description**

email	string	Registered email of the user
password	string	Password associated with the account
Authenticates a user and generates an access token.		
Success		
Status Code	200	
Response Type	JSON	
Response Data	**Type**	**Description**
access _token	string	Token string used for authenticated requests
token_type	string	Indicates the token type
expires_in	int	Duration in seconds before token expiration
user_id	int	Unique ID of the authenticated user
user_name	string	Name of the authenticated user
Sample Response		

```
{
  "access_token": "4|S6E7v7k7S56e9h5m6vMsdM8sdfxgGhAS6LKj8h2k",
  "token_type": "Bearer",
  "expires_in": 3600,
  "user_id": 105,
  "user_name": "John Cruz"
}
```

Fail		
Status Code	401	
Response Type	JSON	
Response Data	**Type**	**Description**
error_message	string	Returned when login credentials are invalid.
Sample Response		

```
{
    "error_message": "Invalid email or password."
}
```

API endpoint	get-token	
method	get	
Request Params	**Type**	**Description**
access_token	string	The bearer token to validate (sent in Authorization header)
Validates the authenticity and validity of an existing access token. When the app loads or refreshes to verify if the user's token is still valid.		
Success		
Status Code	200	
Response Type	JSON	
Response Data	**Type**	**Description**
valid	boolean	Indicates if the token is still valid

user_id	int	ID of the user tied to the token
user_name	string	Name of the authenticated user
expires_at	string	Token expiration timestamp

Sample Response

```
{
  "valid": true,
  "user_id": 105,
  "user_name": "John Cruz",
  "expires_at": "2025-10-09T15:00:00Z"
}
```

Fail	
Status Code	401
Response Type	JSON

Response Data	**Type**	**Description**
valid	boolean	False if teh token is invalid or expired
error_message	string	Returned when login credentials are invalid.

Sample Response

```
{
    "valid": false,
    "error_message": "Invalid email or password."
}
```

===

NOTIFICATION APIs

API endpoint	**create-notification**	
method	post	
Request Params	**Type**	**Description**
user_id	int	The ID of the user who will receive the notification
report_id	int	The report ID associated with the notification
message	string	The notification message content
This endpoint sends a new notification to a specific user. It creates a new notification record in the database.		
Success		
Status Code	201	
Response Type	text	
Response Data	**Type**	**Description**
success	string	A boolean value indicating a successful or unsuccessful operation
Sample Response		

success	
Fail	
Status Code	400
Response Type	text

Response Data	**Type**	**Description**
error_message	string	Error message when creating notification is unsuccessful.

Sample Response	
Failed to create notification.	

API endpoint	**get-notifications**	
method	get	
Request Params	**Type**	**Description**
user_id	int	The ID of the logged-in user
This endpoint retrieves all notification for the logged-in user		
Success		
Status Code	200	
Response Type	json	
Response Data	**Type**	**Description**
notif_id	int	The unique ID of the notification
report_id	int	The report ID associated with the notification
message	string	The notification message content
status	string	The status of the specific notification whether it is "unread" or "read"
created_at	string	The date and time the notification has been created

Sample Response	

{
    "report_id": 1,
    "message": "Your lost item has been found",
    "status": "unread",
    "created_at": "2025-10-09 08:35:00"
}	

Fail	
Status Code	404
Response Type	text

Response Data	**Type**	**Description**
error_message	string	Error message when retrieving notifications is unsuccessful.

Sample Response	
Failed to retrieve notifications. No notifications found for this user.	

API endpoint	get-unread-notifications	
method	get	
Request Params	**Type**	**Description**
user_id	int	The ID of the logged-in user
This endpoint retrieves only the unread notification for the logged-in user		
Success		
Status Code	200	
Response Type	json	
Response Data	**Type**	**Description**
notif_id	int	The unique ID of the notification
report_id	int	The report ID associated with the notification
message	string	The notification message content
created_at	string	The date and time the notification has been created
Sample Response		

{
    "report_id": 1,
    "message": "Your lost item has been found",
    "created_at": "2025-10-09 08:35:00"
}		

Fail		
Status Code	404	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Error message when retrieving unread notifications is unsuccessful.
Sample Response		
Failed to retrieve unread notifications. No unread notification found.		

API endpoint	update-notification-read-status	
method	put	
Request Params	**Type**	**Description**
notif_id	int	The ID of the notification to mark as read
This endpoint marks a specific notification as "read."		
Success		
Status Code	404	
Response Type	text	
Response Data	**Type**	**Description**

success	string	A boolean value indicating a successful or unsuccessful operation
Sample Response		
Notification marked as read successfully.		
Fail		
Status Code	401	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Error message when updating notification is unsuccessful.
Sample Response		
Failed to update the read status of the notification. Notification not found or already marked as read.		

===

ADMIN APIs

API endpoint	get-pending-reports	
method	get	
Request Params	**Type**	**Description**
N/A	N/A	Only accessible by admin users
The API first checks the token of the logged-in user whether the user has a role of "admin." This endpoint retrieves all pending found item reports that require admin verification		
Success		
Status Code	200	
Response Type	json	
Response Data	**Type**	**Description**
user_id	int	The unique ID of the user who reported the item
report_id	int	The unique ID of the report
item_name	string	The name of the found item
type	string	The report type "found"
status	string	The current status "pending" of th e report
created_at	string	The date and time the report has been created
Sample Response		

{
        "user_id": 1,
        "report_id": 1,
        "item_name": "Black wallet"
        "type": "found",
        "status": "pending",
        "created_at": "2025-10-09 08:35:00"		

}	
Fail	
Status Code	404
Response Type	text

Response Data	**Type**	**Description**
error_message	string	Error message when retrieving pending reports is unsuccessful.
Sample Response		
Failed to retrieve pending reports.		

API endpoint	**update-report-status-approve**	
method	put	
Request Params	**Type**	**Description**
report_id	int	The unique ID of the found report to approve
This endpoint marks a found item report as approved after admin verification		
Success		
Status Code	200	
Response Type	json	
Response Data	**Type**	**Description**
report_id	int	The unique ID of the report
status	string	The updated status "approve" of the report
Sample Response		
{ "report_id": 1, "status": "approve" }		
Fail		
Status Code	404	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Error message when updating the status of report is unsuccessful.
Sample Response		
Failed to approve the report. Report not found or already approved.		

API endpoint	update-claim-status-approve	
method	put	
Request Params	**Type**	**Description**
report_id	int	The unique ID of the claim request to approve
This endpoint approves a user's claim request after validation		
Success		
Status Code	200	
Response Type	json	
Response Data	**Type**	**Description**
claim_id	int	The unique ID of the claim request
status	string	The updated status "approve" of the claim request
Sample Response		

{
    "claim_id": 1,
    "status": "approve"
}		

Fail		
Status Code	404	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Error message when updating the status of claim request is unsuccessful.
Sample Response		
Failed to approve the claim request. Claim not found or already processed.		

API endpoint	update-claim-status-reject	
method	put	
Request Params	**Type**	**Description**
report_id	int	The unique ID of the claim request to reject
This endpoint rejects a user's claim request after validation		
Success		
Status Code	200	
Response Type	json	
Response Data	**Type**	**Description**
claim_id	int	The unique ID of the claim request

status	string	The updated status "rejected" of the claim request
Sample Response		

{
    "claim_id": 1,
    "status": "rejected"
}		

Fail		
Status Code	404	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Error message when updating the status of claim request is unsuccessful.
Sample Response		
Failed to reject the claim request. Claim not found or already processed.		

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Claim

API endpoint	create-claim	
method	POST	
Request Params	**Type**	**Description**
report_id	int	The ID of the found item report being claimed
user_id	int	The ID of the user creating the claim (required for authorization)
item_name	string	The name of the item being claimed.
proof_description	string	A detailed description of the item to prove ownership (e.g., contents, distinguishing marks)
Creates a new claim record for a found item.		
Success		
Status Code	201	
Response Type	JSON	
Response Data	**Type**	**Description**
claim_id	int	Unique ID of the created claim
report_id	int	Related found item ID
user_id	int	ID of the claimant
item_name	string	Item name from input
proof_description	string	Description provided by claimant
status	string	The initial status of the claim (e.g., "pending")
created_at	datetime	Date and time when the claim was created
Sample Response		

```
{
      "claim_id": 1,
      "report_id": "5",
      "user_id": 12,
      "item_name": "Wallet",
      "proof_description": "Brown leather wallet with initials J.D.",
      "status": "pending"
      "created_at": "2025-10-09 14:33:00"
}
```

Fail	
Status Code	400
Response Type	JSON

Response Data	Type	Description
error_message	string	Error message returned when required input fields are missing or invalid.

Sample Response		

```
{
  "error_message": "Missing required field: report_id"
}
```

API endpoint	get-claim
method	GET

Request Params	Type	Description
id	int	Claim ID to view

Fetches the details of a specific claim record based on the given claim_id.

Success	
Status Code	200
Response Type	JSON

Response Data	Type	Description
claim_id	int	Claim unique ID
report_id	int	Related found ID
user_id	int	Claimant's user ID
item_name	string	Name of the claimed item
proof_description	string	Proof or details from the claimant
status	string	Claim status
created_at	datetime	Date/time of submission

Sample Response		

```
{
  "claim_id": 2,
  "report_id": 7,
  "user_id": 15,
  "item_name": "Phone",
```

```
    "proof_description": "Black iPhone 12 with blue case",
    "status": "pending",
    "created_at": "2025-10-08 11:45:00"
}
```

Fail	
Status Code	404
Response Type	text

Response Data	Type	Description
error_message	string	Error message when the claim is not found.

Sample Response
Claim not found for ID: 2.

API endpoint	get-claims	
method	GET	
Request Params	**Type**	**Description**
claim_id	int	Unique ID of the claim
report_id	int	Related found ID
user_id	int	Claimant's user ID
item_name	string	Name of the claimed item
proof_description	string	Detailed proof provided by the user
status	string	Current status of the claim
Fetches all existing claims from the claims table.		
Success		
Status Code	200	
Response Type	JSON	
Response Data	**Type**	**Description**
claims	array	List of claims objects containing summarized data
Sample Response		

```
[
  {
    "claim_id": 1,
    "report_id": 4,
    "user_id": 12,
    "item_name": "Wallet",
    "proof_description": "Brown leather wallet with initials J.D.",
    "status": "approved",
  },
```

```
  {
    "claim_id": 2,
    "report_id": 10,
    "user_id": 5,
    "item_name": "Red Umbrella",
    "proof_description": "My name is written on the handle.",
    "status": "approved",
  }
]
```

Fail	
Status Code	500
Response Type	text

Response Data	Type	Description
error_message	string	Database or server error

Sample Response		
Server Error: Unable to retrieve claims.		

API endpoint	update-claim	
method	PUT	

Request Params	Type	Description
id	int	Claim ID to update
status	string	New status (pending, approved, rejected)

Updates the status of a specific claim.		

Success		
Status Code	200	
Response Type	JSON	

Response Data	Type	Description
claim_id	int	Unique ID of the updated claim
status	string	The newly updated status of the claim

Sample Response		

```
{
  "claim_id": 105,
  "status": "approved",
}
```

Fail		
Status Code	400	
Response Type	text	

Response Data	Type	Description
error_message	string	The request body is missing required fields or has invalid data.

Sample Response
Failed to update claim. Invalid data.

API endpoint	upload-claim-image	
method	POST	
Request Params	**Type**	**Description**
id	int	Claim ID
image	file	Image file showing ownership proof
Uploads an image related to the claim for verification.		
Success		
Status Code	200	
Response Type	JSON	
Response Data	**Type**	**Description**
success	boolean	Indicates if the image upload succeeded
image_url	string	File path or URL of uploaded image
Sample Response		

{
  "Success": true,
  "image_url": "https://example.com/uploads/proof_1.jpg"
}		

Fail		
Status Code	400	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Error message for invalid file or upload failure
Sample Response		
Image upload failed: Invalid file type.		

===

Image

API endpoint	get-images	
method	GET	
Request Params	**Type**	**Description**
image_id	int	Unique identifier of the image

report_id	int	ID of the related report
claim_id	int	ID of the related claim
file_path	string	Path or URL of the uploaded image
uploaded_at	datetime	Date and time when the image was uploaded
Retrieve all uploaded images (for reports or claims).		
Success		
Status Code	200	
Response Type	JSON	
Response Data	**Type**	**Description**
images	array	List of image objects containing summarized data
Sample Response		

```
[
  {
    "image_id": 1,
    "report_id": 101,
    "claim_id": null,
    "file_path": "/uploads/images/report_101_image_1.jpg",
    "uploaded_at": "2023-10-27T10:30:00Z"
  },
  {
    "image_id": 2,
    "report_id": null,
    "claim_id": 201,
    "file_path": "/uploads/images/claim_201_photo_a.png",
    "uploaded_at": "2023-10-27T11:00:00Z"
  }
]
```

Fail		
Status Code	404	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Error message when images are not found
Sample Response		
No images found.		

API endpoint	**get-image**	
method	GET	
Request Params	**Type**	**Description**
id	int	Image ID to retrieve
Retrieve details of a single image by ID.		

Success		
Status Code	200	
Response Type	JSON	
Response Data	**Type**	**Description**
image_id	int	Unique identifier of the image
report_id	int	ID of the related report
claim_id	int	ID of the related claim
file_path	string	Path or URL of the uploaded image
uploaded_at	datetime	Date and time when the image was uploaded
Sample Response		

{
  "image_id": 1,
  "report_id": 5,
  "claim_id": 3,
  "file_path": "uploads/report_5_image1.jpg",
  "uploaded_at": "2025-10-10 14:32:00"
}		

Fail		
Status Code	404	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Error message when image ID does not exist
Sample Response		
Image not found.		

API endpoint	delete-image	
method	DELETE	
Request Params	**Type**	**Description**
id	int	Image ID to retrieve
Deletes an image from both storage and the database based on its ID.		
Success		
Status Code	200	
Response Type	JSON	
Response Data	**Type**	**Description**
message	string	Confirmation message after deletion
Sample Response		

{
  "message": "Image deleted successfully."
}		

Fail		
Status Code	400	
Response Type	text	
Response Data	**Type**	**Description**
error_message	string	Error message if image deletion fails or image not found
Sample Response		
Failed to delete image. Image not found.		