

# 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.		
<b>Success</b>		
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
<b>Sample Response</b>		
<pre>{   "access_token": "abc123xyz456",   "token_type": "Bearer",   "expires_in": 3600,   "user_id": 1,   "user_name": "John Cruz" }</pre>		
<b>Fail</b>		
Status Code	401	
Response Type	text	
Response Data	Type	Description
error_message	string	Unauthorized access error.
<b>Sample Response</b>		
Invalid email or password.		

<b>API endpoint</b>		
<b>get-user-data</b>		
method	get	
<b>Request Params</b>	<b>Type</b>	<b>Description</b>
id	int	User ID
Retrieves the profile information of a user.		
<b>Success</b>		
Status Code	200	
Response Type	JSON	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
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
<b>Sample Response</b>		
<pre>{   "user_id": 1,   "name": "John Cruz",   "email": "john@example.com",   "phone_number": "+639171234567",   "profile_picture": "https://example.com/profiles/john.jpg" }</pre>		
<b>Fail</b>		
Status Code	404	
Response Type	text	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
error_message	string	Unauthorized access error.
<b>Sample Response</b>		
User not found.		

<b>API endpoint</b>		
<b>update-user-data</b>		
method	put	
<b>Request Params</b>	<b>Type</b>	<b>Description</b>
name	string	Updated name
phone_number	string	Updated contact number
profile_picture	string	Updated profile image URL
Updates existing user details.		
<b>Success</b>		
Status Code	200	
Response Type	JSON	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
success	bool	Operation result
message	string	Update confirmation
<b>Sample Response</b>		
<pre>{   "success": true,   "message": "Profile updated successfully." }</pre>		
<b>Fail</b>		
Status Code	400	
Response Type	text	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
error_message	string	Validation or server error
<b>Sample Response</b>		
Invalid phone number format.		

<b>API endpoint</b>		
<b>delete-user</b>		
method	delete	
<b>Request Params</b>	<b>Type</b>	<b>Description</b>
id	int	User ID
Soft-deletes the user account by setting delete_at.		
<b>Success</b>		
Status Code	200	
Response Type	JSON	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
success	bool	Operation result
message	string	Confirmation result
<b>Sample Response</b>		
<pre>{   "success": true,   "message": "User account deactivated." }</pre>		
<b>Fail</b>		
Status Code	404	
Response Type	text	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
error message	string	Error message details
<b>Sample Response</b>		
User not found.		

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## 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.		

<b>API endpoint</b>		
<b>get-matches</b>		
method	get	
<b>Request Params</b>	<b>Type</b>	<b>Description</b>
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.		
<b>Success</b>		
Status Code	200	
Response Type	JSON	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
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
<b>Sample Response</b>		
<pre>[   {     "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"   } ]</pre>		
<b>Fail</b>		
Status Code	404	
Response Type	text	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
error_message	string	No results found
<b>Sample Response</b>		
No matches found.		

<b>API endpoint</b>		
<b>update-match</b>		
method	put	
<b>Request Params</b>	<b>Type</b>	<b>Description</b>
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.		
<b>Success</b>		
Status Code	200	
Response Type	JSON	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
match_id	int	ID of the updated match
status	string	Updated status
message	string	Confirmation message
<b>Sample Response</b>		
<pre>{   "match_id": 1,   "status": "confirmed",   "message": "Match status updated successfully." }</pre>		
<b>Fail</b>		
Status Code	404 or 400	
Response Type	text	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
error message	string	Description of the failure
<b>Sample Response</b>		
No matches found.		

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## 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	Reported 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.		

<b>API endpoint</b>	<b>get-reports</b>	
method	get	
<b>Request Params</b>	<b>Type</b>	<b>Description</b>
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	Filter reports by date
Retrieve all lost or found reports. Can be filtered by type, status, date, or location.		
<b>Success</b>		
Status Code	200	
Response Type	JSON	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
reports	array	List of reports objects containing summarized data
<b>Sample Response</b>		
<pre>[   {     "report_id": 2,     "type": "lost",     "item_name": "Umbrella",     "location": "Library",     "status": "pending"   },   {     "report_id": 3,     "type": "found",     "item_name": "Watch",     "location": "Gym",     "status": "approved"   } ]</pre>		
<b>Fail</b>		
Status Code	404	
Response Type	text	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
error message	string	Returned when no reports match the filters.
<b>Sample Response</b>		
No reports found.		

<b>API endpoint</b>	<b>get-report</b>	
method	get	
<b>Request Params</b>	<b>Type</b>	<b>Description</b>
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
description	string	Updated description or admin note
Update report details or status (for admin or authorized users).		
<b>Success</b>		
Status Code	200	
Response Type	JSON	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
success	boolean	Indicates if the update succeeded
message	string	Confirmation message
<b>Sample Response</b>		
<pre>{   "Success": true,   "message": "Report updated successfully." }</pre>		
<b>Fail</b>		
Status Code	400	
Response Type	text	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
error_message	string	Reason for failed update
<b>Sample Response</b>		
Failed to update report. Invalid ID.		

API endpoint	delete-report	
method	delete	
<b>Request Params</b>	<b>Type</b>	<b>Description</b>
id	int	The ID of the report to delete
Delete or cancel a report by its ID.		
<b>Success</b>		
Status Code	200	
Response Type	JSON	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
success	boolean	Indicates if the update succeeded
message	string	Confirmation message
<b>Sample Response</b>		
<pre>{   "Success": true,   "message": "Report deleted successfully." }</pre>		
<b>Fail</b>		
Status Code	404	

Response Type	text	
<b>Response Data</b>	Type	Description
error message	string	Error message when report not found
<b>Sample Response</b>		
Failed to delete report. Report not found.		

API endpoint	upload -report-image	
method	post	
<b>Request Params</b>	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		
<b>Success</b>		
Status Code	200	
Response Type	JSON	
<b>Response Data</b>	Type	Description
success	boolean	Indicates if the update succeeded
file_url	string	URL path of the uploaded image
<b>Sample Response</b>		
<pre>{     "Success": true,     "file_url": "https://recorever.com/uploads/report_4_1.jpg" }</pre>		
<b>Fail</b>		
Status Code	400	
Response Type	text	
<b>Response Data</b>	Type	Description
error_message	string	Error message for invalid file or upload failure
<b>Sample Response</b>		
Image upload failed. Invalid file type.		

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## Authorization

API endpoint	generate-token	
method	post	
<b>Request Params</b>	Type	Description

email	string	Registered email of the user
password	string	Password associated with the account
Authenticates a user and generates an access token.		
<b>Success</b>		
Status Code	200	
Response Type	JSON	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
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
<b>Sample Response</b>		
<pre>{   "access_token": "4 S6E7v7k7S56e9h5m6vMsdM8sdfxgGhAS6LKj8h2k",   "token_type": "Bearer",   "expires_in": 3600,   "user_id": 105,   "user_name": "John Cruz" }</pre>		
<b>Fail</b>		
Status Code	401	
Response Type	JSON	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
error_message	string	Returned when login credentials are invalid.
<b>Sample Response</b>		
<pre>{   "error_message": "Invalid email or password." }</pre>		

API endpoint	get-token	
method	get	
<b>Request Params</b>	<b>Type</b>	<b>Description</b>
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.		
<b>Success</b>		
Status Code	200	
Response Type	JSON	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
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
<b>Sample Response</b>		
{ "valid": true, "user_id": 105, "user_name": "John Cruz", "expires_at": "2025-10-09T15:00:00Z" }		
<b>Fail</b>		
Status Code	401	
Response Type	JSON	
<b>Response Data</b>		
valid	boolean	False if the token is invalid or expired
error_message	string	Returned when login credentials are invalid.
<b>Sample Response</b>		
{ "valid": false, "error_message": "Invalid email or password." }		

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## 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.		
<b>Success</b>		
Status Code	201	
Response Type	text	
<b>Response Data</b>		
success	string	A boolean value indicating a successful or unsuccessful operation
<b>Sample Response</b>		

success		
<b>Fail</b>		
Status Code	400	
Response Type	text	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
error_message	string	Error message when creating notification is unsuccessful.
<b>Sample Response</b>		
Failed to create notification.		

API endpoint	get-notifications	
method	get	
<b>Request Params</b>	<b>Type</b>	<b>Description</b>
user_id	int	The ID of the logged-in user
This endpoint retrieves all notification for the logged-in user		
<b>Success</b>		
Status Code	200	
Response Type	json	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
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
<b>Sample Response</b>		
{ "report_id": 1, "message": "Your lost item has been found", "status": "unread", "created_at": "2025-10-09 08:35:00" }		
<b>Fail</b>		
Status Code	404	
Response Type	text	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
error_message	string	Error message when retrieving notifications is unsuccessful.
<b>Sample Response</b>		
Failed to retrieve notifications. No notifications found for this user.		

<b>API endpoint</b>	<b>get-unread-notifications</b>	
method	get	
<b>Request Params</b>	<b>Type</b>	<b>Description</b>
user_id	int	The ID of the logged-in user
This endpoint retrieves only the unread notification for the logged-in user		
<b>Success</b>		
Status Code	200	
Response Type	json	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
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
<b>Sample Response</b>		
<pre>{     "report_id": 1,     "message": "Your lost item has been found",     "created_at": "2025-10-09 08:35:00" }</pre>		
<b>Fail</b>		
Status Code	404	
Response Type	text	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
error_message	string	Error message when retrieving unread notifications is unsuccessful.
<b>Sample Response</b>		
Failed to retrieve unread notifications. No unread notification found.		

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

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

## ADMIN APIs

API endpoint	admin/report/{id}/status	
method	put	
Request Params	Type	Description
id	int	The unique ID of the found report to update
This endpoint allows an administrator to update the status (e.g., approved, rejected) of a specific report.		
<b>Success</b>		
Status Code	200	
Response Type	json	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
success	boolean	Indicates if the update was successful.
message	string	Confirmation message with the new status.
<b>Sample Response</b>		
<pre>{     "success": true,     "message": "Report status updated to approved" }</pre>		
<b>Fail</b>		
Status Code	400	
Response Type	text	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
error_message	string	Error message when updating the status of report is unsuccessful.
<b>Sample Response</b>		
Report not found or status update failed.		

<b>API endpoint</b>		
<b>admin/dashboard-stats</b>		
method	get	
<b>Request Params</b>	<b>Type</b>	<b>Description</b>
days	int	Number of days to look back (default is 15).
This endpoint rejects a user's claim request after validation		
<b>Success</b>		
Status Code	200	
Response Type	json	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
stats	object	A container for summary metrics.
- lostFoundRatio	string	The ratio of lost items vs found items (e.g., "10/5").
- pendingAction	int	Total number of reports with "pending" status.
- successfullyClaimed	int	Total number of reports with "claimed" status.
- totalReports	int	Total active reports in the system.
reportsOverTime	array	A list of daily report counts for chart plotting.
- date	string	The date in "MM-dd" format.
- count	int	The number of reports created on that date.
<b>Sample Response</b>		
<pre>{     "stats": {         "lostFoundRatio": "20/19",         "pendingAction": 2,         "successfullyClaimed": 10,         "totalReports": 39     },     "reportsOverTime": [         {             "date": "10-01",             "count": 5         },         {             "date": "10-02",             "count": 8         }     ] }</pre>		

## Claim

API endpoint	claims	
method	POST	
Request Params	Type	Description
report_id	int	The ID of the found item report being claimed
claimant_name	int	The ID of the user creating the claim (required for authorization)
contact_email	string	The name of the item being claimed.
contact_phone	string	A detailed description of the item to prove ownership (e.g., contents, distinguishing marks)
admin_remarks		
matching_lost_report_id		
Submits a new claim request manually, often used by admins to link a found item to a claimant or a matching lost report.		
<b>Success</b>		
Status Code	201	
Response Type	JSON	
Response Data	Type	Description
claim_id	int	ID of the created claim
report_id	int	ID of the report being claimed.
claimant_name	string	Name of the person claiming the item.
contact_email	string	Email address of the claimant.
contact_phone	string	Phone number of the claimant.
admin_remarks	string	Internal notes or remarks regarding the claim.
created_at	datetime	Date and time when the claim was submitted
matching_lost_report_id	long	ID of the corresponding "lost" report, if a match is found.
<b>Sample Response</b>		
<pre>{     "claim_id": 1,     "report_id": "5",     "claimant_name": "janedee",     "contact_email": "janedee@gmail.com",     "contact_phone": "09206290522",     "admin_remarks": "correctly describe the item's unique traits",     "created_at": "2025-10-09 14:33:00",     "matching_lost_report_id": 3 }</pre>		
<b>Fail</b>		
Status Code	404	
Response Type	text	
Response Data	Type	Description

error_message	string	Error message returned when submitting claim is unsuccessful.
<b>Sample Response</b>		
Target report not found.		

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### 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		
<pre>[   {     "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"   } ]</pre>		

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<b>Fail</b>		
Status Code	404	
Response Type	text	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
error_message	string	Error message when images are not found
<b>Sample Response</b>		
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.		
<b>Success</b>		
Status Code	200	
Response Type	JSON	
<b>Response Data</b>	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
<b>Sample Response</b>		
{		
"image_id": 1,		
"report_id": 5,		
"claim_id": 3,		
"file_path": "uploads/report_5_image1.jpg",		
"uploaded_at": "2025-10-10 14:32:00"		
}		
<b>Fail</b>		
Status Code	404	
Response Type	text	
<b>Response Data</b>	Type	Description
error_message	string	Error message when image ID does not exist
<b>Sample Response</b>		
Image not found.		

<b>API endpoint</b>		
<b>delete-image</b>		
method	DELETE	
<b>Request Params</b>	<b>Type</b>	<b>Description</b>
id	int	Image ID to retrieve
Deletes an image from both storage and the database based on its ID.		
<b>Success</b>		
Status Code	200	
Response Type	JSON	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
message	string	Confirmation message after deletion
<b>Sample Response</b>		
<pre>{   "message": "Image deleted successfully." }</pre>		
<b>Fail</b>		
Status Code	400	
Response Type	text	
<b>Response Data</b>	<b>Type</b>	<b>Description</b>
error_message	string	Error message if image deletion fails or image not found
<b>Sample Response</b>		
Failed to delete image. Image not found.		