

User Authentication and Authorization

1. User Registration

- `POST /api/register`
 - Request Body: { email, password, phone_number }
 - Response: { user_id, status, message }

2. User Login

- `POST /api/login`
 - Request Body: { email, password }
 - Response: { access_token, refresh_token, user_id, status, message }

3. Change Password

- `PUT /api/change-password`
 - Headers: `Authorization: Bearer <access_token>`
 - Request Body: { current_password, new_password }
 - Response: { status, message }

4. Password Recovery

- `POST /api/forgot-password`
 - Request Body: { email_or_phone }
 - Response: { status, message }

5. Verify OTP

- `POST /api/verify-otp`
 - Request Body: { otp, phone_number }
 - Response: { status, message }

6. Generate New Access Token

- `POST /api/refresh-token`
 - Request Body: { refresh_token }
 - Response: { access_token, status, message }

7. Admin Ban User

- `POST /api/admin/ban-user`
 - Headers: `Authorization: Bearer <admin_access_token>`
 - Request Body: { user_id }
 - Response: { status, message }

Crime Reporting

8. Report a Crime

- `POST /api/report-crime`
 - Headers: `Authorization: Bearer <access_token>`

- **Request Body:** { title, description, division, district, crime_time, images, video }
- **Response:** { crime_id, status, message }

Flow for Generating AI Description

1. **User Uploads Image :** The user uploads an image as part of the crime report.
2. **Image Upload to Storage :** The image is stored in a cloud storage service (e.g., AWS S3, Firebase Storage).
3. **Call AI Service :** The backend makes an API call to the external AI service to generate a description of the image.
4. **Store and Return Description :** The generated description is stored in the database and returned to the user for review and modification.

Updated API Endpoints

1. Upload Image and Generate Description

```
Endpoint : POST /api/upload-image
Headers : Authorization: Bearer <access_token>
Request Body : { image_file }
Response : {
  "image_url": "https://example.com/path/to/image.jpg",
  "description": "A person standing near a broken window."
}
```

2. Report a Crime with Generated Description

```
Endpoint : POST /api/report-crime
Headers : Authorization: Bearer <access_token>
Request Body :{
  "title": "Broken Window Incident",
  "description": "A person standing near a broken window.", // This can be
modified by the user
  "division": "Dhaka",
  "district": "Dhaka South",
  "crime_time": "2023-10-01T12:00:00Z",
  "images": ["https://example.com/path/to/image.jpg"],
  "video": "https://example.com/path/to/video.mp4" // Optional
}
```

```
Response:{
  "crime_id": "12345",
  "status": "success",
  "message": "Crime report submitted successfully."
}
```

9. Get Crime Report Details

- `GET /api/crime/:id`
 - Response: { crime_id, title, description, division, district, images, video, post_time, crime_time, user_id, upvotes, downvotes, verification_score, comments }

Community Interaction

10. Upvote/Downvote Crime Post

- `POST /api/crime/:id/upvote`
 - Headers: Authorization: Bearer <access_token>
 - Response: { status, message }
- `POST /api/crime/:id/downvote`
 - Headers: Authorization: Bearer <access_token>
 - Response: { status, message }

11. Comment on Crime Post

- `POST /api/crime/:id/comment`
 - Headers: Authorization: Bearer <access_token>
 - Request Body: { comment, proof_image, proof_video }
 - Response: { comment_id, status, message }

Crime Feed

12. Get Paginated Crime Posts

- `GET /api/crimes?page=:page&limit=:limit`
 - Query Parameters: division, district, sort_by, search_query
 - Response: { crimes: [{ crime_id, title, description, division, district, images, video, post_time, crime_time, user_id, upvotes, downvotes, verification_score }], total_pages, current_page }

User Roles

13. Get All Users (Admin Only)

- `GET /api/admin/users`
 - Headers: Authorization: Bearer <admin_access_token>
 - Response: { users: [{ user_id, email, phone_number, verified, banned }] }

14. Get All Comments (Admin Only)

- GET /api/admin/comments
 - Headers: Authorization: Bearer <admin_access_token>
 - Response: { comments: [{ comment_id, user_id, crime_id, comment, proof_image, proof_video }] }

User Profile

15. Get User Profile

- GET /api/profile/:user_id
 - Response: { user_id, email, phone_number, verified, banned, profile_image, bio, crime_reports }

16. Update User Profile

- PUT /api/profile
 - Headers: Authorization: Bearer <access_token>
 - Request Body: { profile_image, bio, other_details }
 - Response: { status, message }

Additional Features

17. Get Heatmap Data

- GET /api/heatmap
 - Query Parameters: division, district, date_range
 - Response: { heatmap_data: [{ location, count }] }

18. Get Leaderboard

- GET /api/leaderboard
 - Query Parameters: type (top_contributors, most_helpful_comments)
 - Response: { leaderboard: [{ user_id, username, score }] }

Utility APIs

19. Get Divisions and Districts

- GET /api/divisions-districts
 - Response: { divisions: [{ division_name, districts: [{ district_name }] }] }

20. Send OTP

- POST /api/send-otp
 - Request Body: { phone_number }
 - Response: { status, message }

21. Generate AI Description

- POST /api/generate-description

- Request Body: { `image_url` }
- Response: { `description` }

Security and Miscellaneous

22. Health Check

- GET `/api/health-check`
 - Response: { `status`: 'OK' }

23. Logout

- POST `/api/logout`
 - Headers: `Authorization: Bearer <access_token>`
 - Response: { `status`, `message` }