StreamVid API Docs

General Information:

- API Name: RTSP Video Streaming API with Overlay Management
- Version: 1.0
- Description: This API manages user authentication, registration, and CRUD operations for custom overlays on top of an RTSP video stream.
- The RTSP URL can be retrieved from apps like ONVIF for the front camera of the users PC.
- Documentation Contact: Your Contact Information

Authentication:

- Method: JWT (to be implemented)
- Token Generation: Not implemented yet (replace "YOUR_TOKEN" with actual token generation logic)
- Authorization Header: Bearer token in format `Authorization: Bearer <your_token>`

Resources:

- Users:
    - GET /users: Retrieve all users (admin role required)
    - POST /users: Register a new user
    - POST /users/login: Authenticate user and receive token
- Overlays:
    - GET /overlays: Get all user's overlays (requires authentication)
    - POST /overlays: Create a new overlay (requires authentication)
    - PUT /overlays/:id: Update an existing overlay (requires authentication and ownership)
    - DELETE /overlays/:id: Delete an overlay (requires authentication and ownership)

Additional Notes:

- JWT authentication is planned but not implemented yet. Replace "YOUR_TOKEN" with actual token generation logic in the login response.
- Error handling can be improved by providing more specific error codes and messages.
- Consider using tools like Swagger or OpenAPI to generate interactive documentation.

Examples:

- Register a new user:

```
POST /users
Content-Type: application/json

{
  "username": "Ipsit Das",
  "password": "nja2748y8y8c"
```

```
  }
```

- Login and retrieve token:

```
POST /users/login
Content-Type: application/json
{
  "username": "Ipsit Das",
  "password": " nja2748y8y8c"
}
```

(Replace "YOUR_TOKEN" with actual token)

- Get all user's overlays:

```
GET /overlays
Authorization: Bearer YOUR_TOKEN
```

- Create a new overlay:

```
POST /overlays
Content-Type: application/json
Authorization: Bearer YOUR_TOKEN

{
  "x": 100,
  "y": 50,
  "width": 200,
  "height": 50,
  "content": "My custom overlay text"
}
```

- Update an existing overlay:

```
PUT /overlays/:id
Content-Type: application/json
Authorization: Bearer YOUR_TOKEN

{
  "content": "Updated overlay text"
}
```