

Cybercrime Reporting Portal

Project Overview

A comprehensive web application for reporting and managing cybercrime incidents. This system provides a user-friendly interface for citizens to report cybercrimes and an administrative dashboard for law enforcement to track and manage cases.



User Features

- Report Submission: Easy-to-use form for reporting cybercrime incidents
- Ticket Tracking: Unique ticket ID generation for each report
- Status Checking: Real-time status updates on submitted reports
- Secure Communication: Email validation and secure data handling

Admin Features

- Dashboard: Comprehensive view of all submitted reports
- Case Management: Update case status (Pending → Under Investigation → Resolved)
- Excel Export: Export resolved cases to Excel for record-keeping
- Report Analytics: View trends and statistics

X Technology Stack

Frontend

- React.js Modern UI framework
- React Router Client-side routing
- CSS3 Responsive styling
- React Toastify User notifications

Backend

- **Node.js** Runtime environment
- Express.js Web framework
- ExcelJS Secure Excel file handling
- CORS Cross-origin resource sharing
- **Body Parser** Request parsing

Data Storage

- JSON Files Lightweight data storage
- **Excel Files** Archive for resolved cases

Prerequisites

- Node.js (v14 or higher)
- npm (Node Package Manager)
- Modern web browser

Installation & Setup

1. Clone the Repository

```
git clone <repository-url>
cd cyberCrimePortalM1/cybercrime-report
```

2. Install Dependencies

```
# Install frontend dependencies
npm install

# Install backend dependencies (if separate)
cd backend; npm install
```

3. Start the Application

Backend Server

```
cd backend
node server.js
```

Server runs on: http://localhost:5000

Frontend Application

```
npm start
```

Application runs on: http://localhost:3000

API Documentation

Endpoints

| Method | Endpoint | Description |
|--------|--------------|------------------------------|
| POST | /api/report | Submit new cybercrime report |
| GET | /api/reports | Get all reports (Admin) |

| Method | Endpoint | Description |
|--------|------------------------|----------------------|
| GET | /api/status/:ticketId | Check report status |
| PATCH | /api/reports/:ticketId | Update report status |
| GET | /api/resolved-reports | Get resolved reports |
| GET | /api/download-resolved | Download Excel file |

Sample API Usage

Submit Report

```
POST /api/report
{
    "name": "John Doe",
    "email": "john@example.com",
    "phone": "1234567890",
    "crimeType": "Online Fraud",
    "description": "Received suspicious emails asking for bank details",
    "location": "Mumbai, India"
}
```

Response

```
{
    "success": true,
    "ticketId": "CYB123456",
    "message": "Report submitted successfully"
}
```

Security Features

- Input validation and sanitization
- Email format validation
- Error handling and logging
- Secure file handling with ExcelJS
- CORS protection

User Interface

Main Components

- 1. Home Page Landing page with navigation
- 2. Report Form Cybercrime incident submission
- 3. Status Check Track report progress

- 4. Admin Login Secure admin access
- 5. Dashboard Admin case management

Academic Value

Learning Outcomes

- Full-Stack Development: Frontend and backend integration
- API Design: RESTful API implementation
- Data Management: JSON and Excel file handling
- Security: Input validation and secure practices
- User Experience: Responsive design and navigation

Technical Skills Demonstrated

- React.js development
- Node.js and Express.js
- API development and testing
- File system operations
- Error handling and validation
- Security best practices

Future Enhancements

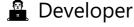
- Database integration (MongoDB/MySQL)
- User authentication system
- Real-time notifications
- Advanced search and filtering
- Dashboard analytics
- Mobile responsive improvements

Contributing

This project is developed as a college mini project. Suggestions and improvements are welcome.



Educational use only - College Mini Project



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COntact

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This project demonstrates practical application of web development skills for cybercrime reporting and management.