# Pro Mood Tracker

A comprehensive mood tracking application that helps users log, visualize, and analyze their moods over time. This application serves as a personal diary for emotional well-being, providing deep insights into mood patterns and offering suggestions for improvement.

## Features

### User Authentication

* Secure registration and login system
* Password reset functionality
* User profile management

### Mood Logging

* Color-coded mood entries (Very Bad, Bad, Okay, Good, Very Good)
* Time period selection (morning, afternoon, evening, night, full-day)
* Notes for each mood entry
* Weather data integration

### Visualization

* Interactive calendar with color-coded mood indicators
* Multiple chart types:
  + Line graphs for mood trends
  + Bar charts for mood distribution
  + Radar/Spider charts for time-of-day analysis
  + Correlation charts for weather impact

### Analytics

* Mood statistics and trends
* Day of week analysis
* Time of day patterns
* Weather correlation insights
* Mood predictions based on historical data

### History

* Searchable mood history
* Filter by mood, date, and time of day
* Detailed view of past entries
* Edit and delete functionality

### Rewards System

* Points for consistent logging
* Badges for achievements
* Streak tracking
* Progress visualization

### Customization

* Multiple theme options:
  + Light
  + Dark
  + Ocean
  + Sunset
  + Forest
  + Pastel

### Data Management

* Export options (JSON, CSV)
* Email functionality
* Data privacy controls

## Technology Stack

* **Frontend**: React with TypeScript
* **UI Framework**: Material-UI (MUI)
* **Routing**: React Router
* **State Management**: React Context API
* **Charts**: Recharts, Chart.js
* **Date Handling**: date-fns
* **PDF Generation**: jsPDF

## Getting Started

### Prerequisites

* Node.js (v14 or higher)
* npm or yarn

### Installation

1. Clone the repository:

* git clone https://github.com/yourusername/pro-mood-tracker.git  
  cd pro-mood-tracker

1. Install dependencies:

* npm install

1. Start the development server:

* npm start

1. Open your browser and navigate to http://localhost:3000

## Project Structure

mood-tracker/  
├── public/  
├── src/  
│ ├── assets/  
│ │ └── images/  
│ ├── components/  
│ │ ├── auth/  
│ │ ├── charts/  
│ │ ├── history/  
│ │ ├── layout/  
│ │ ├── mood/  
│ │ ├── rewards/  
│ │ ├── themes/  
│ │ └── utils/  
│ ├── context/  
│ ├── pages/  
│ ├── services/  
│ ├── types/  
│ ├── App.tsx  
│ └── index.tsx  
├── package.json  
└── tsconfig.json

## Usage

1. **Register/Login**: Create an account or log in to access your personal mood tracker.
2. **Log a Mood**: Click on “Log Mood” to record your current emotional state.
3. **View Calendar**: See your moods displayed on a color-coded calendar.
4. **Analyze Trends**: Visit the Analytics section to gain insights into your mood patterns.
5. **Check History**: Browse through your past entries in the History section.
6. **Earn Rewards**: Track your progress and earn badges in the Rewards section.
7. **Customize**: Change the application theme in Settings.

## Contributing

Contributions are welcome! Please feel free to submit a Pull Request.

## License

This project is licensed under the MIT License - see the LICENSE file for details.

## Acknowledgements

* Material-UI for the component library
* Recharts and Chart.js for visualization components
* All the open-source libraries that made this project possible