



COVID-19 India Live Dashboard

A real-time COVID-19 dashboard for India with state-wise statistics, live updates, and beautiful visualizations.

Status **Live**

Java **17**

Spring Boot **3.1.0**

Frontend **Vanilla JS**

✨ Features

- 📊 **Real-time COVID-19 metrics** with live indicators
- 🏛️ **State-wise data table** for all 31 Indian states
- 👤 **Visitor counter** with persistent tracking
- 🔄 **Auto-refresh** functionality (hourly updates)
- 📱 **Responsive design** for all devices
- 🚀 **Professional animations** and UI elements
- 📈 **Coming soon** features section
- 🔗 **API endpoint** for raw data access

🏗️ Architecture

Backend (Spring Boot)

- **Java 17** with Spring Boot 3.1.0
- RESTful API endpoints
- Real-time data fetching from official sources
- State filtering (displays states 1-31 only)
- CORS configured for cross-origin requests

Frontend (Vanilla JavaScript)

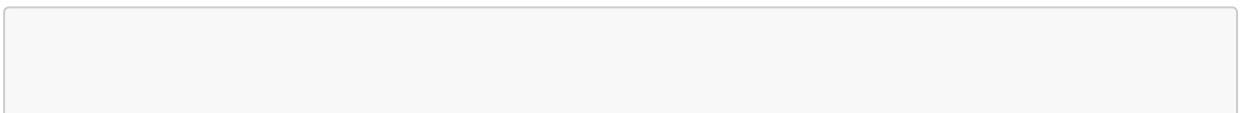
- Clean, modern UI with CSS animations
- Environment-aware API calls
- localStorage for visitor tracking
- Responsive design with mobile support



Deployment

Backend Deployment (GitHub Actions + Railway/Heroku)

1. Push to GitHub:



```
git add .
git commit -m "Initial commit: COVID-19 Dashboard"
git branch -M main
git remote add origin https://github.com/yourusername/covid-
dashboard.git
git push -u origin main
```

2. Railway Deployment:

- Connect your GitHub repo to [Railway](#)
- Railway will auto-detect the Spring Boot app
- Set environment variable: `SPRING_PROFILES_ACTIVE=prod`

3. GitHub Actions:

- Automatically builds and tests on every push
- Runs hourly to keep the backend active
- Located in `.github/workflows/backend.yml`

Frontend Deployment (Vercel)

1. Connect to Vercel:

- Import your GitHub repo in [Vercel](#)
- Vercel will detect the static files automatically

2. Update Backend URL:

- After backend deployment, update the API URL in `dashboard.js`
- Replace `your-backend-url.railway.app` with your actual backend URL

3. Environment Variables:

- Set `BACKEND_URL` in Vercel dashboard if needed



Local Development

Prerequisites

- Java 17 or higher
- Maven 3.6+
- Modern web browser

Running Locally

1. Clone the repository:

```
git clone https://github.com/yourusername/covid-dashboard.git
cd covid-dashboard
```

2. Start the backend:

```
./mvnw spring-boot:run
```

3. Access the dashboard:

- Open <http://localhost:8080> in your browser
- The dashboard will load with real-time COVID-19 data

API Endpoints

- **GET /** - Main dashboard page
- **GET /api/metrics** - JSON API with COVID-19 metrics
- **GET /actuator/health** - Health check endpoint



Data Sources

- **Primary Source:** Ministry of Health and Family Welfare, India
- **API Endpoint:** <https://covid19dashboard.mohfw.gov.in/data/datanew.json>
- **Update Frequency:** Hourly (via GitHub Actions)
- **Data Coverage:** All 31 Indian states and union territories



Features in Detail

Metric Cards

- **New Cases** as primary display (swapped from totals)
- **Active, Recovered, Deaths** with trend indicators
- **Color-coded arrows** (red for increases, green for recoveries)
- **No +/- signs** for cleaner display

State Table

- **Filtered data** showing only states 1-31
- **Responsive design** with horizontal scroll on mobile
- **Number formatting** with comma separators
- **Color-coded columns** for better readability

Live Features

- **LIVE indicator** with pulsing red animation
- **Visitor counter** with animated number updates
- **Auto-refresh** countdown timer
- **Real-time status** updates

Coming Soon

- **7-day trend charts** with professional placeholder
- **Advanced analytics** features
- **More visualization options**

Configuration

Environment Variables

```
# Production
SPRING_PROFILES_ACTIVE=prod
PORT=8080
CORS_ALLOWED_ORIGINS=https://your-frontend-domain.vercel.app

# Development
SPRING_PROFILES_ACTIVE=default
```

CORS Configuration

The application is configured to accept requests from:

- Vercel deployments (*.vercel.app)
- Netlify deployments (*.netlify.app)
- Local development (localhost:*)

Mobile Support

- **Responsive design** adapts to all screen sizes
- **Touch-friendly** buttons and interactions
- **Optimized layouts** for mobile and tablet
- **Fast loading** with minimal bandwidth usage

Contributing

1. Fork the repository
2. Create a feature branch (`git checkout -b feature/amazing-feature`)
3. Commit your changes (`git commit -m 'Add amazing feature'`)
4. Push to the branch (`git push origin feature/amazing-feature`)
5. Open a Pull Request

License

This project is licensed under the MIT License - see the [LICENSE](#) file for details.

Acknowledgments

- **Ministry of Health and Family Welfare, India** for providing the COVID-19 data
- **Spring Boot** community for the excellent framework


- **GitHub Actions** for CI/CD automation
- **Railway/Vercel** for hosting infrastructure

Support

If you encounter any issues or have questions:

- Open an issue on GitHub
- Check the [GitHub Actions logs](#) for deployment status
- Verify the [backend health endpoint](#)

Built with ❤️ for India | Real-time COVID-19 Dashboard

 Stay Safe, Stay Informed