# PharmaCompare: Medicine Price Comparison Platform

## Project Description

PharmaCompare is a web application that enables users to search and compare medicine prices across various pharmacies. It provides a seamless and user-friendly interface for consumers to find the best prices for medicines. Additionally, the platform includes features like user authentication, personalized profiles, and a curated list of popular medicines.

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## Setup Instructions

1. Clone the repository:

   git clone https://github.com/<your-username>/PharmaCompare.git

2. Navigate to the project directory:

   cd PharmaCompare

3. Install dependencies for both frontend and backend:

   cd backend && npm install
   cd ../frontend && npm install

4. Create a `.env` file in the `backend` directory and configure the following variables:
   .env
   PORT=5000
   MONGO_URI=your_mongodb_connection_string
   JWT_SECRET=your_jwt_secret_key
   ```

5. Start the application:
   - Backend:
     ```bash
     cd backend && npm start
     ```

   - Frontend:
     ```bash
     cd frontend && npm start
     ```

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

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### *Features Overview*
- **Search Medicines**: Search for medicines by name and view their prices across pharmacies.
- **Popular Medicines**: A curated list of popular medicines for quick access.
- **Authentication**: Signup and login functionality with JWT-based authentication.
- **User Profiles**: View and manage personalized user profiles.
- **Responsive Design**: Optimized for both desktop and mobile devices.

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### *API Endpoints*
#### Medicines
- `GET /api/medicines`: Fetch all medicines.
- `GET /api/medicines/:id`: Fetch details of a specific medicine.

#### Pharmacies
- `GET /api/pharmacies?medicineName=:name`: Fetch pharmacies offering a specific medicine.

#### Authentication
- `POST /api/auth/signup`: Register a new user.
- `POST /api/auth/login`: Login an existing user.

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### *Technologies Used*
- **Frontend**: React, Material-UI
- **Backend**: Node.js, Express
- **Database**: MongoDB
- **Authentication**: JWT (JSON Web Tokens)
- **Development Tools**: Postman, Nodemon

# Screenshots

## Home Page

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# PharmaCompare

Search and compare medicine prices across pharmacies

Search Medicines

SEARCH

## Popular Medicines

| PARACETAMOL | IBUPROFEN | ASPIRIN |
| AMOXICILLIN | CIPROFLOXACIN | METFORMIN |

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## Medicine Details

### Paracetamol

Pain reliever and fever reducer.

#### Pharmacies Offering This Medicine

| Pharmacy | Price |
| --- | --- |
| Pharmacy A | 50 |
| Pharmacy B | 45 |
| Pharmacy C | 60 |

### Ibuprofen

Used for pain relief and reducing inflammation.

#### Pharmacies Offering This Medicine

| Pharmacy | Price |
| --- | --- |
| Pharmacy D | 80 |
| Pharmacy E | 75 |
| Pharmacy F | 85 |

# Aspirin

Used to reduce fever and relieve mild to moderate pain.

## Pharmacies Offering This Medicine

| Pharmacy | Price |
|---|---|
| Pharmacy G | 65 |
| Pharmacy H | 60 |
| Pharmacy I | 70 |

# Amoxicillin

An antibiotic used to treat bacterial infections.

## Pharmacies Offering This Medicine

| Pharmacy | Price |
|---|---|
| Pharmacy J | 120 |
| Pharmacy K | 110 |
| Pharmacy L | 130 |

# Ciprofloxacin

An antibiotic used to treat bacterial infections like UTIs.

## Pharmacies Offering This Medicine

| Pharmacy | Price |
|---|---|
| Pharmacy M | 100 |
| Pharmacy N | 95 |
| Pharmacy O | 105 |

# Metformin

A medication used to control high blood sugar in type 2 diabetes.

## Pharmacies Offering This Medicine

| Pharmacy | Price |
|---|---|
| Pharmacy P | 40 |
| Pharmacy Q | 45 |
| Pharmacy R | 50 |

## *Contributing*

Contributions are welcome! To contribute:

1. Fork the repository.

2. Create a new branch:
   ```bash
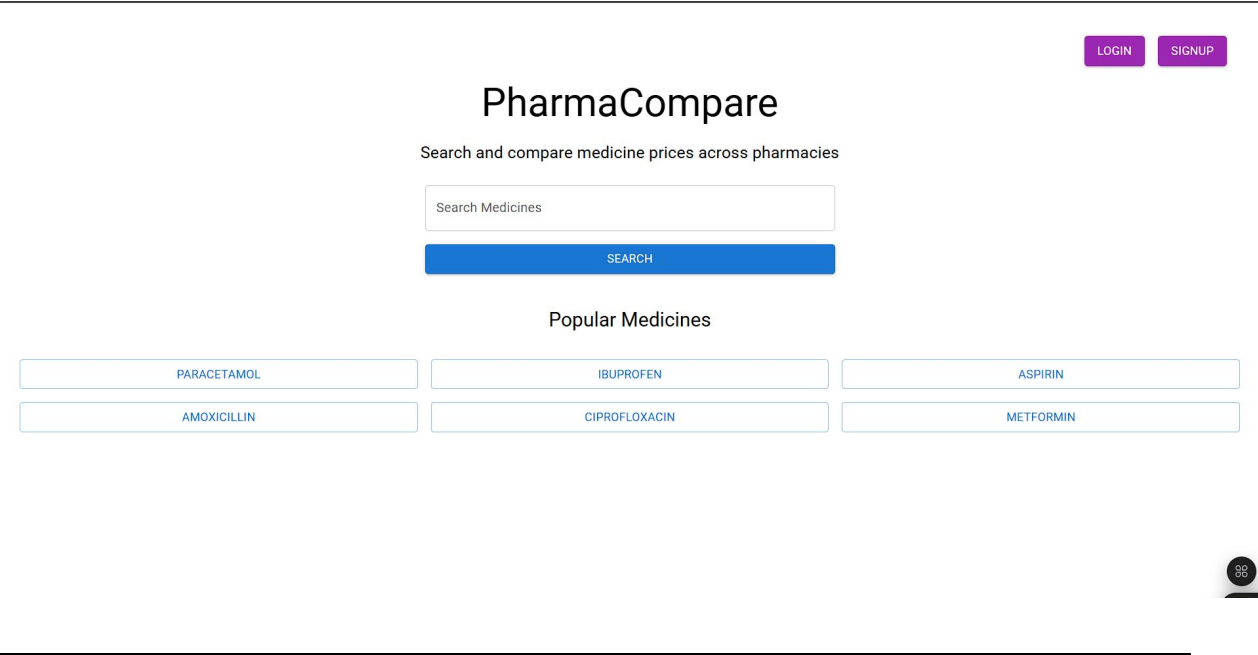   git checkout -b feature-name
   ```

3. Make your changes and commit them:
   ```bash
   git commit -m "Add feature-name"
   ```

4. Push to the branch:
   ```bash
   git push origin feature-name
   ```

```
```

5. Open a pull request.

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### *Known Issues*
- API response times may be slow for large datasets.
- Profile feature is under development.

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### *Future Improvements*
- Add multi-language support.
- Implement advanced search filters.
- Include user reviews for medicines and pharmacies.

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### *Contact*
If you have any questions, feel free to reach out:
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