

Innovation Portal - Quick Start README

Quick Start

This is a complete Innovation Portal application with frontend and backend components.

Prerequisites

- Python 3.11+
- Node.js 18+
- npm or pnpm

1. Backend Setup (Terminal 1)

```
cd innovation-portal-backend
python -m venv venv

# Windows
venv\Scripts\activate

# macOS/Linux
source venv/bin/activate

pip install -r requirements.txt
python src/main.py
```

Backend runs on: <http://localhost:5000>

2. Frontend Setup (Terminal 2)

```
cd innovation-portal-frontend
npm install # or pnpm install
npm run dev # or pnpm dev
```

Frontend runs on: <http://localhost:5173>

3. Access Application

- Open browser: <http://localhost:5173>

- Admin login: admin / admin123
- Register new users via the registration tab

Project Structure

```
innovation-portal/  
├── innovation-portal-backend/  # Flask API server  
├── innovation-portal-frontend/ # React web application  
├── SETUP_GUIDE.md             # Detailed documentation  
└── README.md                  # This file
```

Features

- User authentication & registration
- Admin and user dashboards
- Hackathon creation & management
- Idea posting & collaboration
- Skill-based team matching
- Participation request system
- Real-time notifications
- Responsive design

Tech Stack

- **Backend:** Flask, SQLite, JWT Authentication
- **Frontend:** React, Tailwind CSS, shadcn/ui
- **Database:** SQLite (easily replaceable)

Documentation

See `SETUP_GUIDE.md` for complete documentation including:

- Detailed installation instructions
- API documentation
- Database schema
- Customization guide
- Troubleshooting
- Security considerations

Development

- Backend API: <http://localhost:5000/api>
- Frontend Dev Server: <http://localhost:5173>
- Database: SQLite file in backend directory

Production Deployment

1. Build frontend: `npm run build`
2. Configure production database
3. Update security keys
4. Deploy to your preferred hosting platform

For detailed deployment instructions, see the complete setup guide.