

🜍 Story Swap - Hyperlocal Travel Stories Platform

A premium travel storytelling platform where users share location-based stories and discover hidden gems through authentic local experiences.



PREMIUM TRAVEL PLATFORM

Project Overview

Story Swap is a sophisticated full-stack web application that enables travelers and locals to share locationspecific stories, creating an authentic travel discovery platform. Users can upload stories tied to specific geographical locations, explore stories from others, and build a community around travel experiences.

Key Features

- Location-Based Storytelling Stories are geotagged to specific locations
- Iser Authentication Secure login/registration with persistent sessions
- Dynamic Island Navigation Premium iOS-inspired navigation with glassmorphism effects
- Personalized User Experience User-specific story management and profiles
- M Interactive Story Discovery Explore stories by location and user
- **Rich Text Editor** Advanced story creation with media support
- 🙀 Modern UI/UX Travel-inspired design with smooth animations

Technology Stack

Frontend

- React 18 with TypeScript
- Vite for fast development and building
- Tailwind CSS for styling
- Shadcn/UI components
- React Router for navigation
- TanStack Query for data fetching
- Custom Authentication Context

Backend

- Node.js with Express.js
- MongoDB database with Mongoose ODM
- JWT authentication
- CORS configuration
- RESTful API architecture
- Swagger API documentation

Database

MongoDB with collections for:

- Users (with authentication)
- Stories (location-based content)
- o Comments and engagement data
- o Geographic location data

Development Tools

- TypeScript for type safety
- ESLint for code quality
- PostCSS for CSS processing
- Git version control



Prerequisites

- Node.js (v18+ recommended)
- MongoDB (v7.0+ recommended)
- npm or yarn

One-Command Setup

```
./setup.sh
```

Start Application

```
# Start both frontend and backend
./start-all.sh

# Or start individually
./start-backend.sh  # Backend only
./start-frontend.sh  # Frontend only
```

Features

Security & Secrets (Important)

Recent cleanup removed hardcoded API / widget keys. To keep the project secure:

Area	Action
Frontend AgentX key	Provide via frontend/vite-frontend/.env.local as VITE_AGENTX_KEY=your_key
Backend JWT	Set JWT_SECRET and REFRESH_TOKEN_SECRET in backend/.env (never commit)

Area	Action
Map / external APIs	Store in env vars, not source files
Rotation	If a key was exposed, generate a new one → update env → redeploy → revoke old

Steps:

- 1. Copy backend/_env_example to backend/_env and fill values.
- 2. Copy frontend/vite-frontend/envexample to envelocal and add keys.
- 3. Add any deployment secrets via your hosting provider's secret manager.
- 4. Never push real credentials only ** example templates.

Fallback behavior: If VITE_AGENTX_KEY is absent, Al chat returns a safe placeholder message and logs a console warning.

To scrub an already committed secret (history rewrite example):

```
git filter-repo --invert-paths --path path/to/file-with-secret git push --force origin main
```

Treat any key you pasted into a public place as compromised—rotate it.

♠ Enhanced Map Integration

- MapTiler Integration with API key NS08JuqWX0qh8UZs5tpY
- Interactive Map Toggle in Explore page
- Story Location Markers with clickable popups
- Auto-centering and smart zoom calculation
- Professional Styling with MapTiler Streets

Enhanced UI/UX

- Rotating Story Images with error fallbacks
- Enhanced Story Cards with hover effects
- Better Engagement Display (likes, views, comments)
- Professional Design with gradients and animations
- Responsive Layout for all devices

Authentication

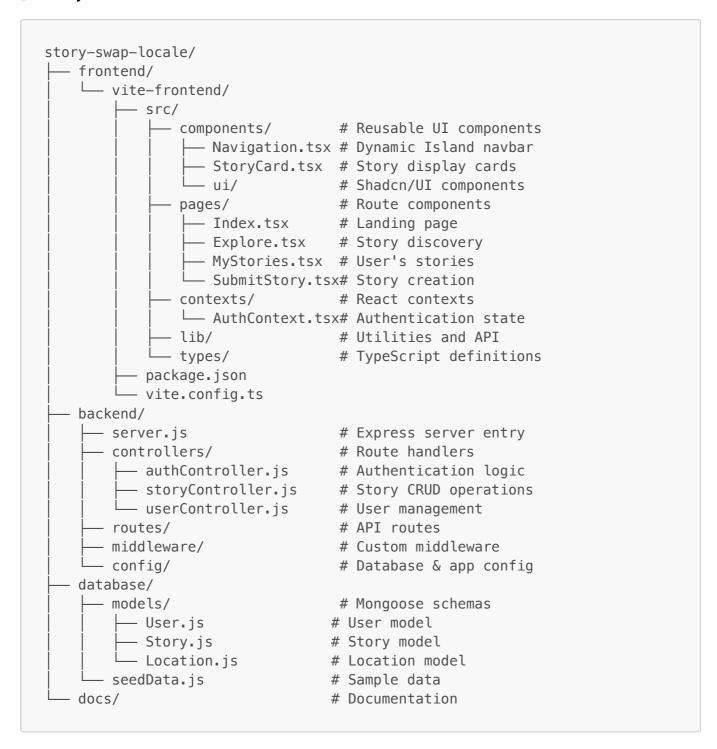
- Demo Credentials for easy testing
- One-click Login buttons
- Role-based Access (Admin/User)

Pages & Features

• 🏚 **Home** - Hero section with call-to-action

- Q Explore Browse stories with interactive map
- Map View Full-screen map experience
- Wy Stories Story management dashboard
- **\ Edit Story** Rich story editing interface
- + Submit Story Create new stories
- **Profile** User profile management

T Project Structure



Configuration

Environment Variables

Backend (.env)

```
NODE_ENV=development
PORT=3001
MONGODB_URI=mongodb://localhost:27017/hyperlocal-story-swap
JWT_SECRET=your-jwt-secret
```

Frontend (.env)

```
VITE_MAPTILER_API_KEY=NS08JuqWX0qh8UZs5tpY
VITE_API_URL=http://localhost:3001
VITE_APP_NAME=Story Swap
```

Database Setup

The application uses MongoDB. The setup script will:

- 1. Start MongoDB automatically (if using Homebrew)
- 2. Create the database on first connection
- 3. Seed with demo data using admin credentials

© Demo Credentials

Admin Account:

• Email: admin@example.com

Password: test1234

User Account:

• Email: rita@example.com

• Password: test1234

Additional User:

• Email: sam@example.com

• Password: test1234

Access URLs

After starting the application:

- Frontend: http://localhost:8080 or http://localhost:8081
- Backend API: http://localhost:3001
- API Documentation: http://localhost:3001/api/docs

Manual Setup (Alternative)

If you prefer manual setup:

1. Install Dependencies

```
# Backend
cd backend && npm install

# Frontend
cd frontend/vite-frontend && npm install

# Database (if needed)
cd database && npm install
```

2. Start MongoDB

```
# Using Homebrew
brew services start mongodb-community@7.0

# Or manually
mongod --config /usr/local/etc/mongod.conf
```

3. Start Backend

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

4. Start Frontend

```
cd frontend/vite-frontend && npm run dev
```

🌃 MapTiler Setup

The application comes pre-configured with MapTiler API key. To use your own:

- 1. Get API key from MapTiler Cloud
- 2. Update VITE_MAPTILER_API_KEY in frontend/vite-frontend/.env
- 3. Restart frontend server

See docs/MAPTILER_SETUP.md for detailed instructions.

Troubleshooting

Common Issues

MongoDB Connection Failed:

brew services start mongodb-community@7.0

Port Already in Use:

- Frontend will automatically try port 8081 if 8080 is busy
- For backend, stop other services using port 3001

Missing Dependencies:

```
./setup.sh # Re-run setup script
```

Map Not Loading:

- Check console for MapTiler API errors
- Verify VITE_MAPTILER_API_KEY in .env
- Restart frontend after env changes

Reset Database

```
cd backend && node scripts/seedData.js
```

>> Development

Key Technologies

- Frontend: React 18, TypeScript, Vite, Tailwind CSS, shadcn/ui
- Backend: Node.js, Express.js, MongoDB, Mongoose
- Maps: MapTiler SDK, Google Maps (fallback)
- Authentication: JWT, bcrypt

Development Workflow

- 1. Start backend: ./start-backend.sh
- 2. Start frontend: ./start-frontend.sh
- 3. Access frontend at http://localhost:8080
- 4. API available at http://localhost:3001

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.



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• GitHub: @HAWKAARJAV

• Repository: story-swap-locale

Acknowledgments

- Shadcn/UI for beautiful component library
- Tailwind CSS for utility-first styling
- React community for excellent documentation
- Vite for lightning-fast development experience

Support

For support, questions, or feature requests, please open an issue on GitHub or contact the development team.

Happy Storytelling! 🕥 🦙