

Travel Planner Development Guide

🚀 JavaScript Frontend + Rails API Architecture

Your travel planner now uses a modern **JavaScript frontend** with a **Rails API backend** architecture!

📋 Team Ruby Version Setup

Current Setup - Flexible Approach ✅

- **Supported Ruby Versions:** 3.4.1, 3.4.6, and other Ruby 3.4.x versions
- **No version enforcement:** Team members can use their existing Ruby installation
- **Gemfile.lock compatibility:** Works across different 3.4.x versions

Ruby Version Compatibility

Your team can continue using their current Ruby versions:

- ✅ **Ruby 3.4.1** - Fully supported
- ✅ **Ruby 3.4.6** - Fully supported
- ✅ **Ruby 3.4.x** - Any 3.4.x version should work

No Action Required!

Team members with Ruby 3.4.1 or 3.4.6 can proceed without any Ruby version changes.

Verify Your Setup:

```
ruby -v
# Should show Ruby 3.4.x (any patch version is fine)

bundle install
# Should complete successfully regardless of 3.4.x version
```

🎯 Frontend Architecture

Two Ways to Access Your App:

1. **JavaScript Frontend** (Recommended):

- URL: <http://localhost:3000/index.html>
- Pure JavaScript UI with Rails API backend
- Modern, interactive interface
- Better for team familiar with JavaScript

2. **Traditional Rails Views** (Backup):

- URL: <http://localhost:3000/>

- Server-rendered HTML pages
- Fallback for Rails-specific functionality

API Endpoints Available:

```
// Users
GET    /api/v1/users
POST   /api/v1/users
GET    /api/v1/users/:id
PUT    /api/v1/users/:id
DELETE /api/v1/users/:id

// Destinations
GET    /api/v1/destinations
POST   /api/v1/destinations
GET    /api/v1/destinations/:id

// Travel Plans
GET    /api/v1/travel_plans
POST   /api/v1/travel_plans
GET    /api/v1/travel_plans/:id

// Recommendations
GET    /api/v1/travel_recommendations
POST   /api/v1/travel_recommendations (generates recommendations)
```

🛠 Development Workflow

Setup for New Team Members:

1. Clone and Setup:

```
git clone <your-repo>
cd project-travel-planner
bundle install
rails db:create db:migrate db:seed
```

2. Start Development:

```
rails server
# App available at:
# - JavaScript Frontend: http://localhost:3000/index.html
# - Rails Views: http://localhost:3000/
```

Frontend Development:

- **JavaScript files:** `/public/js/travel-planner.js`
- **HTML interface:** `/public/index.html`
- **No build process needed** - pure vanilla JavaScript
- **API communication** handled by `TravelPlannerAPI` class

Backend Development:

- **API Controllers:** `/app/controllers/api/v1/`
- **Models:** `/app/models/`
- **Routes:** `/config/routes.rb`

API Integration Ready

Your app is pre-configured for:

- **OpenAI API** - for intelligent recommendations
- **Google Maps API** - for location data and distances
- **TripAdvisor API** - for attractions and reviews

Add your API keys to `.env` file:

```
cp .env.example .env
# Edit .env with your API keys
```

Current Features

Working JavaScript Frontend:

- User management (create, view users)
- Destination browsing with filters
- AI-powered travel recommendations
- Responsive Bootstrap UI

Rails API Backend:

- RESTful API endpoints
- CORS enabled for frontend integration
- Sample data included
- Heroku deployment ready

Next Development Steps

1. API Integration:

- Add OpenAI service for smarter recommendations
- Integrate Google Maps for distance calculations
- Connect TripAdvisor for attraction data

2. Frontend Enhancements:

- Add map visualization
- Implement user authentication
- Create trip planning interface
- Add photo galleries

3. Deployment:

- Follow [HEROKU_DEPLOY.md](#) for production deployment
- Set environment variables for API keys

Team Advantages

- **JavaScript Focus:** Frontend team can work in familiar JavaScript
- **API First:** Clean separation between frontend and backend
- **Scalable:** Easy to add mobile apps or other frontends later
- **Modern:** Uses current web development best practices
- **Heroku Ready:** Zero-config deployment to production

Happy coding! 