

Horizon Career Platform - Quick Start Guide

Version: 1.0.0

Last Updated: November 22, 2025

Quick Setup (5 Minutes)

1. Prerequisites

- Node.js 20+ installed
- Git installed
- Supabase account (free tier)
- Google Gemini API key (free tier)

2. Installation

```
# Clone repository
git clone https://github.com/Vaasu08/merged-app.git
cd merged-app

# Install dependencies
npm install
cd server && npm install && cd ..
```

3. Environment Setup

Root `.env` file:

```
VITE_GEMINI_API_KEY=your_key_here
VITE_SUPABASE_URL=your_supabase_url
VITE_SUPABASE_ANON_KEY=your_supabase_anon_key
```

Server `server/.env` file:

```
PORT=4000
GEMINI_API_KEY=your_key_here
SUPABASE_URL=your_supabase_url
SUPABASE_SERVICE_ROLE_KEY=your_service_role_key
CORS_ORIGIN=http://localhost:8080
```

4. Database Setup

1. Go to Supabase SQL Editor
2. Run `database-setup.sql`
3. Run `database-business-data.sql`

5. Launch

```
# Terminal 1 - Frontend
npm run dev

# Terminal 2 - Backend
npm run server:dev
```

Access: <http://localhost:8080>

Feature Checklist

Core Features Available

- ☒ Career Discovery & Assessment
- ☒ AI Resume Builder
- ☒ ATS Scoring (100-point scale)
- ☒ Mock Interview Simulator
- ☒ Learning Roadmap Generator
- ☒ Job Listings Search
- ☒ Skill Graph Visualizer
- ☒ AI Career Chatbot
- ☒ 8-Agent Career Swarm

Key Capabilities

- **Resume Enhancement:** AI-powered bullet points, summaries, skill optimization
 - **ATS Analysis:** 10+ detailed improvement suggestions
 - **Interview Prep:** Real-time feedback with TensorFlow face detection
 - **Data Persistence:** All work saved to Supabase
 - **Multi-Agent AI:** 8 specialized agents for career planning
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Common User Flows

Flow 1: Build & Optimize Resume

1. Go to Resume Builder
2. Upload existing resume or start fresh
3. Click "Enhance with AI" for each section
4. Go to ATS Assessment
5. Upload resume + paste job description
6. Review score & apply suggestions
7. Export optimized PDF

Flow 2: Prepare for Interview

1. Visit Interview Prep
2. Select role (e.g., "Software Engineer")
3. Choose difficulty (Entry/Mid/Senior)
4. Start session
5. Answer questions (voice or text)
6. Review detailed feedback

- 7. Track improvement over time

Flow 3: Career Path Discovery

- 1. Take Career Assessment (30 questions)
- 2. Review recommended roles with match %
- 3. Explore Skill Graph visualization
- 4. Generate Learning Roadmap
- 5. Track phase completion

Flow 4: Job Search

- 1. Go to Job Listings
- 2. Enter keywords + location
- 3. Filter by salary/type/experience
- 4. Save interesting positions
- 5. Track applications in profile

 **Troubleshooting**

Issue: Port 8080 already in use

```
# Kill process on port 8080
sudo lsof -ti:8080 | xargs kill -9
npm run dev
```

Issue: Missing dependencies

```
npm install pdfjs-dist --save
```

Issue: Database connection failed

- Verify Supabase credentials in `.env`
- Check Supabase dashboard is accessible
- Ensure SQL scripts ran successfully

Issue: Gemini API errors

- Verify API key is correct
- Check quota in Google AI Studio
- Try fallback model (gemini-1.5-flash)

 **Default Ports**

Service	Port	URL
Frontend	8080	http://localhost:8080
Backend	4000	http://localhost:4000
Supabase	External	Your Supabase URL

API Keys Setup

Google Gemini API

1. Visit <https://makersuite.google.com/app/apikey>
2. Click "Create API Key"
3. Copy to `.env` files

Supabase

1. Create project at <https://supabase.com>
2. Go to Settings → API
3. Copy URL, Anon Key, Service Role Key
4. Paste into `.env` files

Important Files

File	Purpose
DOCUMENTATION.pdf	Complete technical documentation
README.md	Project overview
database-setup.sql	Database schema
package.json	Dependencies list
.env	Environment variables

Key Technologies

- **Frontend:** React 18, Vite, Tailwind CSS, Radix UI
- **Backend:** Node.js, Express
- **AI:** Google Gemini, LangChain, LangGraph
- **Database:** Supabase (PostgreSQL)
- **Visualization:** D3.js, Recharts
- **ML:** TensorFlow.js, MediaPipe

Getting Help

- **Full Documentation:** DOCUMENTATION.pdf
- **Issues:** <https://github.com/Vaasu08/merged-app/issues>
- **Email:** support@horizon-platform.com






Quick Commands

```
# Development
npm run dev           # Start frontend
npm run server:dev    # Start backend
```

```
# Production
npm run build          # Build for production
npm run preview        # Preview production build

# Maintenance
npm run lint           # Check code quality
git status             # Check git status
git pull origin main   # Update from main branch
```

Next Steps

1.  Complete setup above
 2.  Read full documentation: `DOCUMENTATION.pdf`
 3.  Test all features
 4.  Deploy to production
 5.  Share with users
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Ready to go! Open <http://localhost:8080> and start exploring! 🎉