

# Quick Start Checklist

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## Step 1: Environment Variables

Backend .env

```
cd BackEnd
```

Create/Edit .env file:

```
CLERK_PUBLISHABLE_KEY=pk_test_xxxxxx
CLERK_SECRET_KEY=sk_test_xxxxxx
MONGODB_URI=mongodb://localhost:27017/codepro
JWT_SECRET=your-secret-key
FRONTEND_URL=http://localhost:4000
GEMINI_API_KEY=your-gemini-key
GITHUB_CLIENT_ID=your-github-id
GITHUB_CLIENT_SECRET=your-github-secret
```

Frontend .env

```
cd FrontEnd
```

Create/Edit .env file:

```
VITE_CLERK_PUBLISHABLE_KEY=pk_test_xxxxxx
VITE_API_URL=http://localhost:5000/api
VITE_WS_URL=http://localhost:5000
VITE_GITHUB_CLIENT_ID=your-github-id
```

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## Step 2: Get Clerk Keys

1. Go to <https://dashboard.clerk.com/>
  2. Create>Select your application
  3. Go to **API Keys** section
  4. Copy:
    - Publishable key (starts with `pk_test_`)
    - Secret key (starts with `sk_test_`)
- 
-

## Step 3: Configure Clerk Dashboard

### 1. Allowed Origins (Settings → URLs → Allowed origins):

- Add: `http://localhost:4000`
- Add: `http://localhost:5000`

### 2. Sign-in Methods (User & Authentication → Email, Phone, Username):

- Enable Email
- Enable Password

### 3. OAuth Providers (optional):

- Enable Google
  - Enable GitHub
- 

## Step 4: Start Services

Terminal 1 - MongoDB (if local)

```
mongod  
# or  
brew services start mongodb-community
```

Terminal 2 - Backend

```
cd BackEnd  
npm install  
npm run dev
```

**Expected output:**

```
MongoDB Connected: localhost  
Server running on port 5000  
WebSocket server is ready
```

Terminal 3 - Frontend

```
cd FrontEnd  
npm install  
npm run dev
```

## Expected output:

```
VITE ready in XXX ms  
Local: http://localhost:4000/
```

## Step 5: Test Sign Up

1. Open browser: <http://localhost:4000>
2. Open DevTools: Press **F12**
3. Click "**Start Free Trial**"
4. Fill in sign-up form
5. Check console for  success messages

### Success Indicators

Browser Console Should Show:

- Clerk Publishable Key found: pk\_test\_...
- WebSocket connected! Socket ID: ...

Backend Terminal Should Show:

- Client connected: socket\_id
- New user created: user@example.com

You Should See:

- Sign-up form appears
- No red errors in console
- After sign-up → redirected to </dashboard>
- Your name appears in navbar

## **X** Common Issues

Issue	Solution
"Missing Clerk Publishable Key"	Add <code>VITE_CLERK_PUBLISHABLE_KEY</code> to <code>FrontEnd/.env</code>
CSP errors	Clear cache: <b>Ctrl+Shift+Delete</b>
401 from Cloudflare	Hard refresh: <b>Ctrl+Shift+R</b>

Issue	Solution
Clerk modal doesn't appear	Check Clerk Dashboard → Allowed Origins
MongoDB connection error	Start MongoDB service
Port already in use	Kill process: <code>lsof -ti:5000 \  xargs kill -9</code>

## 🔍 Quick Debug Commands

```
# Check if ports are in use
lsof -i :5000 # Backend
lsof -i :4000 # Frontend

# Check MongoDB status
mongosh # Connect to MongoDB
# or
brew services list | grep mongodb

# View environment variables (Frontend)
cd FrontEnd
npm run dev
# Then in browser console:
console.log(import.meta.env)

# Test backend health
curl http://localhost:5000/health
```

## 📞 Next Steps After Success

1.  Connect GitHub repository
2.  Open a pull request
3.  Watch AI review your code
4.  Check WebSocket real-time updates

## ⌚ Quick Test Checklist

- MongoDB running
- Backend running on port 5000
- Frontend running on port 4000
- Both `.env` files created
- Clerk keys added
- No errors in browser console
- Can access `http://localhost:4000`
- Sign-up modal appears
- Can create account

- Redirected to dashboard
  - User in MongoDB
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**Time to Complete:** ~10 minutes

**Difficulty:** Easy 

Good luck! 