

# CORS Configuration Fix Summary

**Date: October 25, 2025**

## Problem

The frontend deployed on Vercel at `https://workigom-frontend.vercel.app` was unable to make API calls to the backend on Render at `https://workigom.onrender.com` due to CORS (Cross-Origin Resource Sharing) errors.

### Error Messages Observed:

- `ERR_CONNECTION_REFUSED`
- Failed to fetch Jobs
- Failed to load resource: net::ERR\_CONNECTION\_REFUSED
- Network error in browser console when trying to fetch from `localhost:3001/api/jobs`

## Root Cause

The backend CORS configuration did not include the correct Vercel frontend URL (`https://workigom-frontend.vercel.app`) in its allowed origins list.

## Solution Applied

### 1. Updated CORS Configuration in `backend/src/app.ts`

Added the Vercel frontend URL to the allowed origins array:

```
// CORS configuration
const allowedOrigins = [
  'http://localhost:5173',
  'https://workigom.vercel.app',
  'https://workigom-frontend.vercel.app', // ✓ Added this line
  process.env.CORS_ORIGIN
].filter(Boolean);
```

### 2. Updated Local Environment Variable

Updated `.env` file with the correct `CORS_ORIGIN` value:

```
# CORS Configuration
CORS_ORIGIN=https://workigom-frontend.vercel.app
```

**Note:** The `.env` file is not committed to Git (it's in `.gitignore`), so you'll need to update the environment variable in your Render dashboard.

### 3. Git Commit and Push

- Committed changes with message: "Fix CORS configuration for Vercel frontend deployment"

- Successfully pushed to GitHub repository: `volkanakbulut73/workigom`

## Next Steps

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### On Render Dashboard:

- Go to your Render dashboard: <https://dashboard.render.com>
- Select your `workigom` backend service
- Go to “Environment” tab
- Add or update the environment variable:
  - Key:** `CORS_ORIGIN`
  - Value:** `https://workigom-frontend.vercel.app`
- Click “Save Changes”
- Render will automatically redeploy your backend with the new environment variable

### On Vercel Dashboard:

- Ensure your frontend environment variable `VITE_BACKEND_URL` is set to:  
`https://workigom.onrender.com`
- If you need to redeploy, go to the Deployments tab and click “Redeploy”

## Verification

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After updating the environment variables on Render:

#### 1. Test the backend directly:

```
bash
curl https://workigom.onrender.com/api/health
```

Should return a successful response.

#### 2. Test from frontend:

- Visit `https://workigom-frontend.vercel.app`
- Open browser DevTools (F12) → Console tab
- Check for CORS errors (should be gone)
- Verify that API calls to `/api/jobs` and other endpoints work

#### 3. Check the Network tab:

- Open DevTools → Network tab
- Filter by “XHR” or “Fetch”
- API calls to `https://workigom.onrender.com` should show successful responses (200 OK)

## Technical Details

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### CORS Configuration Explained:

- Purpose:** Allows the frontend (running on one domain) to make requests to the backend (running on another domain)
- Security:** Only explicitly allowed origins can access the API
- Credentials:** The configuration includes `credentials: true` to allow cookies and authentication headers

## Current Allowed Origins:

1. `http://localhost:5173` - Local development
2. `https://workigom.vercel.app` - Alternative Vercel deployment
3. `https://workigom-frontend.vercel.app` - Main Vercel frontend
4. Any origin specified in `CORS_ORIGIN` environment variable

## Files Modified

- `backend/src/app.ts` - Added Vercel frontend URL to allowed origins
- `.env` - Updated `CORS_ORIGIN` (local only, not in Git)
- Committed and pushed to GitHub

## Status

 **COMPLETED** - All code changes have been made and pushed to GitHub.

 **ACTION REQUIRED** - You need to update the `CORS_ORIGIN` environment variable on Render dashboard for the changes to take effect in production.

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## Additional Notes

### If Issues Persist:

#### 1. Check Backend Logs on Render:

- Look for any startup errors
- Verify the environment variable is loaded
- Check for CORS-related log messages

#### 2. Verify Backend Environment Variable:

```
javascript
  console.log('CORS_ORIGIN:', process.env.CORS_ORIGIN);
```

#### 3. Test Backend API Endpoint:

```
bash
  curl -H "Origin: https://workigom-frontend.vercel.app" \
    -H "Access-Control-Request-Method: GET" \
    -H "Access-Control-Request-Headers: Content-Type" \
    -X OPTIONS \
    https://workigom.onrender.com/api/jobs
```

Should return CORS headers in response.

#### 4. Check Frontend Environment:

- Verify `VITE_BACKEND_URL` is correctly set on Vercel
- Ensure no hardcoded `localhost` URLs in frontend code

## Production Checklist:

- [ ] Update `CORS_ORIGIN` on Render dashboard
- [ ] Verify backend redeploys successfully
- [ ] Test API calls from Vercel frontend

- [ ] Check browser console for errors
  - [ ] Verify authentication works (if applicable)
  - [ ] Test all main features (jobs listing, applications, etc.)
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**Need Help?**

If you encounter any issues after updating the environment variables, please share:

1. Render deployment logs
2. Browser console errors
3. Network tab screenshots showing the failed requests