

CORS and API URL Configuration Fix Summary

Problem Identified

1. **Backend CORS Issue:** CORS only allowed `localhost:5173` , blocking requests from `https://workigom.vercel.app`
2. **Frontend API URL Issue:** API configuration wasn't flexible enough to handle different URL formats

Fixes Applied

1. Backend CORS Configuration (`backend/src/app.ts`)

Before:

```
const corsOptions = {
  origin: process.env.CORS_ORIGIN || 'http://localhost:5173',
  credentials: true,
  optionsSuccessStatus: 200
};
```



After:

```
const allowedOrigins = [
  'http://localhost:5173',
  'https://workigom.vercel.app',
  process.env.CORS_ORIGIN
].filter(Boolean); // Remove undefined/null values

const corsOptions = {
  origin: (origin: string | undefined, callback: (err: Error | null, allow?: boolean) => void) => {
    // Allow requests with no origin (like mobile apps, curl, postman)
    if (!origin) return callback(null, true);

    if (allowedOrigins.indexOf(origin) !== -1) {
      callback(null, true);
    } else {
      console.warn(`CORS: Blocked origin ${origin}`);
      callback(new Error('Not allowed by CORS'));
    }
  },
  credentials: true,
  optionsSuccessStatus: 200
};
```

Benefits:

-  Allows requests from both localhost and production frontend
-  Supports additional origins via `CORS_ORIGIN` environment variable

- ☒ Provides clear logging when origins are blocked
- ☒ Allows requests with no origin (for testing tools)

2. Frontend API URL Configuration (`src-frontend/lib/api.ts`)

Before:

```
const API_URL = import.meta.env.VITE_BACKEND_URL || 'http://localhost:3001/api';
```

After:

```
// Construct API URL - handle both with and without /api suffix
const getApiUrl = () => {
  const backendUrl = import.meta.env.VITE_BACKEND_URL || 'http://localhost:3001';
  const baseUrl = backendUrl.endsWith('/api') ? backendUrl : `${backendUrl}/api`;

  // Debug logging in development
  if (import.meta.env.DEV) {
    console.log('🔧 API Configuration:', {
      VITE_BACKEND_URL: import.meta.env.VITE_BACKEND_URL,
      finalApiUrl: baseUrl,
      mode: import.meta.env.MODE
    });
  }

  return baseUrl;
};

const API_URL = getApiUrl();
```

Benefits:

- ☒ Automatically adds `/api` suffix if not present
- ☒ Works with both `https://workigom.onrender.com` and `https://workigom.onrender.com/api`
- ☒ Provides debug logging in development mode
- ☒ More flexible for different deployment scenarios

3. Axios Credentials Configuration

Added:

```
const api: AxiosInstance = axios.create({
  baseURL: API_URL,
  withCredentials: true, // Send cookies with requests
  headers: {
    'Content-Type': 'application/json',
  },
});
```

Benefits:

- ☒ Enables sending cookies with cross-origin requests
- ☒ Matches the backend CORS `credentials: true` setting

4. Environment Variable Documentation

Updated `src-frontend/.env.example` :

```
# Backend API URL
# For local development:
# VITE_BACKEND_URL=http://localhost:3001
#
# For production deployment (Vercel):
# Set this as an environment variable in Vercel dashboard
# VITE_BACKEND_URL=https://workigom.onrender.com
#
# Note: The /api suffix is automatically added, so don't include it
VITE_BACKEND_URL=http://localhost:3001
```

Updated `.gitignore` :

```
**/.env
**/.env.local
```

Benefits:

- ☒ Clear instructions for local and production setup
- ☒ Ensures `.env` files in subdirectories are ignored by git



Deployment Instructions for Vercel

Verify Environment Variable on Vercel:

1. Go to your Vercel project settings
2. Navigate to **Environment Variables**
3. Ensure you have:

`VITE_BACKEND_URL=https://workigom.onrender.com`

Note: Do NOT include `/api` - it will be added automatically

4. **Important:** Redeploy your frontend after these changes are pushed to trigger a new build

To Redeploy on Vercel:

Option 1: Automatic (Recommended)

- The changes are now pushed to your GitHub repository
- Vercel will automatically detect the push and trigger a new deployment
- Wait for the deployment to complete

Option 2: Manual

1. Go to your Vercel dashboard
2. Navigate to your `workigom` project
3. Go to the **Deployments** tab
4. Click on the three dots (...) next to the latest deployment
5. Click **Redeploy**
6. Select "Use existing Build Cache" → **No** (to ensure fresh build)

Testing After Deployment

1. Check Browser Console

Open <https://workigom.vercel.app> and check the browser console. You should see:

```
 API Configuration: {  
  VITE_BACKEND_URL: "https://workigom.onrender.com",  
  finalApiUrl: "https://workigom.onrender.com/api",  
  mode: "production"  
}
```

2. Verify API Calls






- Open the **Network** tab in browser DevTools
- Try to login or make any API request
- Check that requests are going to `https://workigom.onrender.com/api/*`
- Verify there are no CORS errors in the console

3. Check Backend Logs

On Render.com, check your backend logs. You should NOT see any:





- CORS: Blocked origin `https://workigom.vercel.app` messages

Files Modified

1.  `backend/src/app.ts` - Updated CORS configuration
2.  `src-frontend/lib/api.ts` - Improved API URL handling
3.  `src-frontend/.env.example` - Updated documentation
4.  `.gitignore` - Added subdirectory `.env` files
5.  `src-frontend/.env` - Updated local development config

Expected Results

After deployment:

-  Frontend on Vercel can successfully communicate with backend on Render
 -  No CORS errors in browser console
 -  All API requests use production backend URL
 -  Authentication and data fetching work correctly
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Troubleshooting

If frontend still uses localhost:

1. **Clear Vercel build cache:**

- Go to Vercel dashboard → Settings → General
- Scroll to “Clear Build Cache & Redeploy”

2. **Verify environment variable format:**

- Should be: `VITE_BACKEND_URL=https://workigom.onrender.com`
- NOT: `VITE_BACKEND_URL=https://workigom.onrender.com/api`

3. **Check Vercel build logs:**

- Look for “Environment Variables” section
- Ensure `VITE_BACKEND_URL` is listed

If CORS errors persist:

1. **Check backend deployment:**

- Ensure the latest changes are deployed on Render
- Check backend logs for CORS-related messages

2. **Verify the origin:**

- Make sure you're accessing via `https://workigom.vercel.app`
- Not via a preview URL like `workigom-*.vercel.app`
- If using preview URLs, add them to the CORS config






Commit Information

Commit Hash: `9a2479e`

Commit Message: “fix: Update CORS config and frontend API URL handling”

Pushed to: `master` branch on GitHub

Next Steps

1.  Changes are pushed to GitHub
 2.  Wait for Vercel to auto-deploy (or trigger manual deployment)
 3.  Test the application at `https://workigom.vercel.app`
 4.  Monitor browser console and network requests
 5.  Verify all features work correctly
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