**When You Change the Excel File:**

**Step 1: Update Your Excel File**

* Make your changes in Class Cancellation App.xlsx
* Save the file
* **Example changes:**
* Add new programs
* Update cancellation dates
* Change instructor names
* Modify class times

**Step 2: Upload to the App**

* Go to: https://class-cancellation-backend.onrender.com/docs
* Find the **/api/import-excel** endpoint
* Click **"Try it out"**
* Click **"Choose File"** and select your updated Excel file
* Click **"Execute"**
* You should see: "Excel file imported successfully"

**Step 3: Verify the Update**

* Refresh your app: https://class-cancellation-frontend.onrender.com
* Your changes should appear immediately
* **No need to restart anything!** ��

**�� When You Want to Change the App (Frontend/Backend):**

**Step 1: Make Changes Locally**

* Edit the files on your computer:
* **Frontend changes:** Edit frontend/src/App.tsx, frontend/src/App.css
* **Backend changes:** Edit backend\_sqlite.py

**Step 2: Test Locally (Optional)**

* **Frontend:** cd frontend && npm start
* **Backend:** python -m uvicorn backend\_sqlite:app --host 0.0.0.0 --port 8000 --reload

**Step 3: Commit and Push to GitHub**

**bash**

git add .

git commit -m "Description of your changes"

git push origin main

**Step 4: Wait for Auto-Deploy**

* **Render automatically detects** the GitHub push
* **Backend redeploys** in ~2-3 minutes
* **Frontend redeploys** in ~2-3 minutes
* **No manual steps needed!** 🚀

**🔄 Complete Workflow Summary:**

| **Change Type** | **Steps** | **Time** |
| --- | --- | --- |
| **Excel Data** | 1. Edit Excel<br>2. Upload via API<br>3. Refresh app | ~2 minutes |
| **App Code** | 1. Edit files<br>2. Git commit/push<br>3. Wait for deploy | ~5 minutes |

**�� Pro Tips:**

**For Excel Changes:**

* ✅ **Use semicolons** for multiple dates: "Oct 3, 2025; Oct 10, 2025"
* ✅ **Keep column names** exactly as they are
* ✅ **Upload via API** every time you change Excel

**For Code Changes:**

* ✅ **Test locally** before pushing
* ✅ **Use descriptive commit messages**
* ✅ **Let Render handle deployment**

**🚨 What NOT to Do:**

* ❌ Don't manually restart Render services
* ❌ Don't edit files directly on Render
* ❌ Don't forget to commit/push code changes
* ❌ Don't forget to upload Excel via API

**🎯 Quick Reference Commands:**

bash

*# For Excel changes:*

*# Just upload via the API - no commands needed!*

*# For code changes:*

git add .

git commit -m "Your change description"

git push origin main

*# Then wait for auto-deploy*

**Your app is now fully automated!** ��**Excel changes = Upload via APICode changes = Git pushEverything else = Automatic!** 🚀