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Deployment Guide for Weight Certificate PDF to JSON Converter

Streamlit Community Cloud (Recommended)

Step 1: Prepare Your Repository

1. Create a GitHub repository:

```
git init
git add .
git commit -m "Initial commit: Weight Certificate PDF to JSON Converter"
git branch -M main
git remote add origin https://github.com/yourusername/calJson.git
git push -u origin main
```

2. Ensure these files are included:

- weight_certificate_processor.py (OCR processing)
- o requirements.txt (Python dependencies)
- packages.txt (system dependencies for cloud)
- weight_certificate_import_schema.json (validation schema)
- README.md (documentation)

Step 2: Deploy to Streamlit Community Cloud

1. Go to Streamlit Community Cloud:

- Visit: https://share.streamlit.io/
- o Sign in with your GitHub account

2. Create new app:

- Click "New app"
- Repository: yourusername/callson
- Branch: main
- Main file path: app.py
- App URL (optional): your-app-name

3. **Deploy**:

- o Click "Deploy!"
- Wait for deployment (usually 2-5 minutes)

Step 3: Your App is Live!

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Your app will be available at: https://your-app-name.streamlit.app/

Alternative Deployment Options

Option 2: Heroku

- 1. Install Heroku CLI
- 2. Create Procfile:

```
web: sh setup.sh && streamlit run app.py --server.port=$PORT --
server.address=0.0.0.0
```

3. Create setup.sh:

```
mkdir -p ~/.streamlit/
echo "[server]
port = $PORT
enableCORS = false
headless = true
[theme]
primaryColor = '#1f77b4'
backgroundColor = '#ffffff'
secondaryBackgroundColor = '#f0f2f6'
textColor = '#262730'
" > ~/.streamlit/config.toml
```

Option 3: Docker

Create Dockerfile:

```
# Install system dependencies
RUN apt-get update && apt-get install -y \
    tesseract-ocr \
    poppler-utils \
    && rm -rf /var/lib/apt/lists/*

WORKDIR /app
COPY requirements.txt .
RUN pip install -r requirements.txt

COPY . .

EXPOSE 8501

CMD ["streamlit", "run", "app.py", "--server.port=8501", "--server.address=0.0.0.0"]
```

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Option 4: Railway

- 1. Connect your GitHub repository
- 2. Railway will auto-detect Streamlit
- 3. Add environment variables if needed

Deployment Checklist

Before deploying, ensure:

- All files are committed to Git
- requirements.txt includes all dependencies
- packages.txt includes system dependencies
- App works locally with streamlit run app.py
- Do hardcoded local paths (we've made this cloud-compatible)
- Sensitive data is handled via environment variables

Post-Deployment

Custom Domain (Optional)

- Most platforms allow custom domain setup
- Configure DNS CNAME to point to your app URL

Monitoring

- Streamlit Community Cloud provides basic analytics
- Monitor app performance and usage

Updates

- Push changes to your GitHub repository
- Streamlit Community Cloud auto-deploys on git push

1 Security Considerations

- · Don't commit sensitive files
- Use environment variables for API keys
- Consider authentication if handling sensitive documents
- Ensure uploaded files are handled securely

Tips

- 1. Streamlit Community Cloud is free and perfect for demos
- 2. Test locally first with streamlit run app.py
- 3. Use meaningful commit messages for easier debugging
- 4. Monitor logs in the deployment platform for issues
- 5. Consider file size limits for PDF uploads