

## Phase 8:

# Data Management (Optional) & Deployment (GreenTrack)

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### 1) Why This Phase Matters

- Data must be **imported, cleaned, backed up**.
  - Deployment shows I can move my work from **dev org** → **GitHub**.
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### 2) Data Import – Add Sample Activities

Tool: **Data Import Wizard** (simpler) OR **Data Loader** (for bulk).

#### Option A: Data Import Wizard

- Setup → Quick Find → **Data Import Wizard**
- Choose **Eco Activity** object.

Upload a CSV with sample data, e.g.:

Activity Name, Activity Type, Trees Planted, Waste Recycled, Date, Location  
Plantation Drive, Tree Plantation, 50, , 2025-01-10, Pune  
Recycling Event, Recycling, , 20, 2025-02-20, Mumbai  
Awareness Session, Awareness Drive, , , 2025-03-30, Delhi

- Map fields → Start Import.

## Option B: Data Loader (more powerful)

- Download **Data Loader** from Setup → Data Management.
  - Login with Developer Edition credentials.
  - Use **Insert** to bulk upload Eco Activities, Impact Scores, or Badges.
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## 3) Data Export & Backup

For data safety.

- Setup → Quick Find → **Data Export**.
  - Schedule weekly export of all objects (Eco Activity, Impact Score, Badge).
  - Download **.zip** backup.
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## 4) Duplicate Rules

Prevent duplicate activities (e.g., same user logs same activity twice).

- Setup → Duplicate Rules → New Rule → Object: **Eco Activity**.
  - Matching criteria: Name + Date + User.
  - Action: Alert + Block save.
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## 5) VS Code & SF for Deployment

- Create **quicklogactivity**:

```
sf lightning generate component --name quickLogActivity --type lwc --output-dir  
force-app/main/default/lwc
```

```
create force-app\main\default\lwc\quickLogActivity\quickLogActivity.js  
create force-app\main\default\lwc\quickLogActivity\quickLogActivity.html  
create force-app\main\default\lwc\quickLogActivity\__tests__\quickLogActivity.test.js  
create force-app\main\default\lwc\quickLogActivity\quickLogActivity.js-meta.xml
```

- Pull metadata (objects, flows, lwc, triggers) into local folder:

```
sf retrieve metadata --manifest ./manifest/package.xml --target-org GreenTrack  
--output-dir ./mdapipkg
```

```
Deploying Metadata
```

Deploying v64.0 metadata to jatinawankar02694@agentforce.com using the v64.0 SOAP API.

- ✓ Preparing 376ms
- ⌚ Waiting for the org to respond - Skipped
- ✓ Deploying Metadata 836ms
  - Components: 1/1 (100%)
- ⌚ Running Tests - Skipped
- ⌚ Updating Source Tracking - Skipped
- ✓ Done 0ms

Status: Succeeded  
Deploy ID: 0AfgK00000ALzQvSAL  
Target Org: jatinawankar02694@agentforce.com  
Elapsed Time: 1.21s

Deployed Source

State	Name	Type	Path
Created	quickLogActivity	LightningComponentBundle	force-app\main\default\lwc\quickLogActivity\quickLogActivity.html
Created	quickLogActivity	LightningComponentBundle	force-app\main\default\lwc\quickLogActivity\quickLogActivity.js
Created	quickLogActivity	LightningComponentBundle	force-app\main\default\lwc\quickLogActivity\quickLogActivity.js-meta.xml

- Commit to GitHub:

```
git add  
git commit -m "Org fetch - All"  
git push
```