

```
The current version is #ident
"@(#)$Format:LocalFoodAI_lanfr144:generate_docs.py:Francois
Lange:lanfr144@school.lu:2026/06/16 21:48:22:Francois
Lange:lanfr144@school.lu:2026/06/16
21:48:22:2a8ed056889f3b796f9266feda591b12b72f3b96:HEAD -> main, origin/main:$"
```

Database Backup and Restore Procedure

1. Overview & Policy

To guarantee clinical records integrity and high availability, Local Food AI enforces a strict backup schedule.

- **Scope:** Includes MySQL schemas (`food_db`), user profiles (`app_auth`), and configuration states.
- **Retention Plan:** Automated daily backups with a strict 7-day rolling window purge.
- **Storage Location:** Stored securely inside the persistent `/backups` directory on the host server.

2. Automated Daily Backups

The automated backup mechanism runs via a host cron job pointing to `backup_db.sh`.

- The script dynamically detects the active MySQL container name (`food-mysql-1` or `food_project-mysql-1`).
- It executes `mysqldump` directly inside the container without exposing root passwords to shell logs.
- Outputs are compressed via `gzip` and timestamped: `food_db_YYYYMMDD_HHMM.sql.gz`.

Cron Configuration Example:

To run the backup daily at 02:00 AM, add the following to `/etc/crontab`:

```
0 2 * * * root /bin/bash /c/Users/lanfr144/Documents/DOPRO1/Antigravity/Food/
backup_db.sh >> /var/log/backup_db.log 2>&1
```

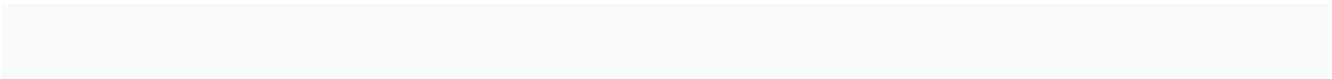
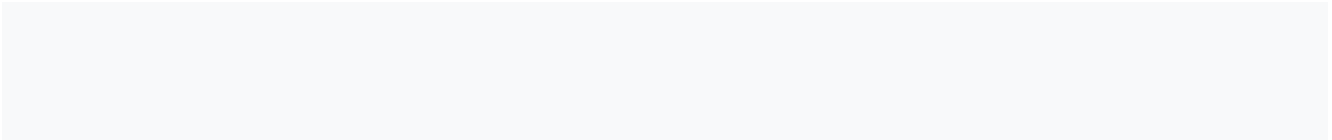
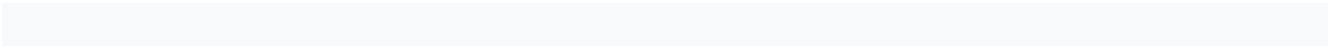
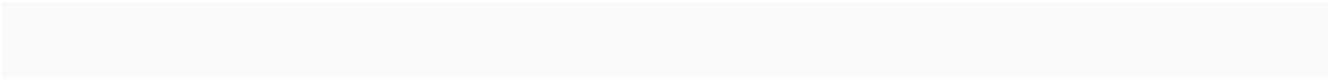
3. Manual Backup Execution

If a system migration or major upgrade is scheduled, perform a manual dump using the following command:

```
# 1. Navigate to the project directory
cd /c/Users/lanfr144/Documents/DOPRO1/Antigravity/Food

# 2. Run the backup wrapper
bash backup_db.sh
```

Verify the output exists inside the backups folder: ```bash ls -lh backups/ ```



- Copy the `.gz` backup to a local testing workspace.
- Run `gzip -t backups/filename.sql.gz` to ensure the archive is not corrupted.
- Test restoring to a local fallback container instance to verify data accessibility.