Eato Meal Tracker

ASE 230 Project 1 & 2

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Overview

- Full-stack web application for meal tracking
- Backend: PHP REST API with MySQL
- Frontend: HTML/JS test client
- Authentication: JWT tokens
- Deployment: Apache

Features

1. User registration and login
2. Full CRUD for foods (add, list, update, delete, fetch single by food_id)
3. Favorites management (add, remove, list)
4. Automated API tests
5. Basic HTML/JS test client

API Endpoints

Authentication

Method	Endpoint	Description
POST	/register.php	Register a new user
POST	/login.php	Authenticate a user

API Endpoints *(cont'd...)*

Foods

Method	Endpoint	Description
POST	/foods.php	Add a food item
GET	/foods.php	List all foods for current user
GET	/foods.php?food_id=<id>	Fetch single food by `food_id`
PUT	/foods.php	Update a food by `food_id`
DELETE	/foods.php	Delete a food by `food_id`

API Endpoints *(cont'd...)*

Favorites

Method	Endpoint	Description
POST	/favorites.php	Mark a food as favorite
GET	/favorites.php	List favorite foods
DELETE	/favorites.php	Remove a food from favorites

JWT Authentication

- Secure all endpoints using JWT
- Token returned on login
- Authorization header: `Bearer <token>`

Deployment

- Copy files to `/var/www/html/eato`
- Ensure correct permissions:

```
sudo chown -R www-data:www-data /var/www/html/eato
sudo chmod -R 755 /var/www/html/eato
```

- Reload Apache:

```
sudo systemctl reload apache2
```

Testing

- Use `test_api.sh` to verify full API functionality
- Can also use HTML/JS client for manual testing

Directory Structure

```
Eato/
├── Eato/
│   ├── code/
│   │   ├── auth.php
│   │   ├── config.php
│   │   ├── favorites.php
│   │   ├── foods.php
│   │   ├── login.php
│   │   ├── register.php
│   │   ├── schema.sql
│   │   ├── test_db.php
│   │   ├── test_api.sh
│   │   └── index.html
│   ├── presentation/
│   └── plan/
├── vendor/
├── .env
└── README.md
```

Next Steps / Improvements

- Containerize with Docker
- Deploy Hugo static documentation to GitHub.io
- Expand test client with better UI/UX
- Track macros in addition to calories