

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, optional Docker

Features

1. User registration and login
2. Add and list foods
3. Mark and list favorites
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

Foods

Method	Endpoint	Description
POST	/foods.php	Add a food item
GET	/foods.php	List foods for current user

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

Favorites

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

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 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