Crave Recipe App Documentation

Technical Overview & User Guide

Project Name: Crave - Social Recipe Sharing Platform

Version: 1.0

Deployment Date: 2025

Live URL: https://theashmonarch.pythonanywhere.com

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Table of Contents

1. [Technology Stack]

2. [Architecture Overview]

3. [Core Features]

4. [Database Schema]

5. [Installation Guide]

6. [User Guide]

7. [Security Features]

8. [Troubleshooting]

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Technology Stack

Backend Technologies

Python 3.10+ - Core programming language

Flask 2.3.3 - Web framework

SQLite - Database management

Werkzeug 2.3.7 - Security and password hashing

Flask-WTF 1.1.1 - Form handling and CSRF protection

Frontend Technologies

- HTML5 - Page structure

- Tailwind CSS - Styling framework

- JavaScript - Interactive functionality

- Canvas Confetti - Visual feedback animations

Deployment & Infrastructure

-PythonAnywhere - Hosting platform

- Git/GitHub- Version control

- SQLite - Database system

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Architecture Overview

Crave follows the Model-View-Controller (MVC) pattern:

User Request → Flask Routes (Controller) → Database Models → HTML Templates (View)

Key Components:

-app.py - Main application controller

- database.py - Data models and operations

- templates/ - UI components

- static/ - Assets and uploaded files

Core Features

1. User Management

- Registration with secure password hashing

- Login/logout functionality

- Session management

- Profile pages

2. Recipe System

- Create and edit recipes

- Image upload with validation

- Categorization and tagging

- Search functionality

3. Social Features

- Favorite/unfavorite recipes

- Browse other users' recipes

- User attribution system

4. UI/UX Features

- Responsive design

- Toast notifications

- Loading states

- Confetti animations for engagement

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Database Schema

Users Table

```

CREATE TABLE users (

id INTEGER PRIMARY KEY,

username TEXT UNIQUE,

password TEXT);

```

Recipes Table

```

CREATE TABLE recipes (

id INTEGER PRIMARY KEY,

user\_id INTEGER,

title TEXT,

ingredients TEXT,

instructions TEXT,

category TEXT,

tags TEXT,

image TEXT,

FOREIGN KEY(user\_id) REFERENCES users(id)

);

```

Favorites Table

```

CREATE TABLE favorites (

user\_id INTEGER,

recipe\_id INTEGER,

FOREIGN KEY(user\_id) REFERENCES users(id),

FOREIGN KEY(recipe\_id) REFERENCES recipes(id),

PRIMARY KEY (user\_id, recipe\_id)

);

```

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## Installation Guide

### Prerequisites

- Python 3.10 or higher

- Git

- Web browser

### Local Installation Steps

1. \*\*Clone the repository\*\*

git clone https://github.com/TheAshMonarch/Crave.git

cd Crave

```

2. \*\*Create virtual environment\*\*

python -m venv venv

source venv/bin/activate # Linux/Mac

# or

venv\Scripts\activate # Windows

```

3. \*\*Install dependencies\*\*

pip install -r requirements.txt

```

4. \*\*Initialize database\*\*

python -c "from database import init\_db; init\_db()"

```

5. \*\*Run the application\*\*

python app.py

```

6. \*\*Access the app\*\*

Open browser and navigate to: http://localhost:5000

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User Guide

Getting Started

1. Register - Create a new account

2. Login - Access your account

3. Browse Recipes - View all available recipes

4. Create Recipe - Add your own recipe

Using Features

-Search - Use the search bar to find specific recipes

- Favorites - Click the heart icon to save recipes

- Profile - View your created recipes and favorites

- Editing - Click "Edit" on your own recipes to modify them

Tips for Best Experience

- Use descriptive titles for recipes

- Add relevant tags to make recipes discoverable

- Upload high-quality images for better engagement

- Use the favorite feature to save recipes you want to try later

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Security Features

Data Protection

- Password hashing with PBKDF2-SHA256

- CSRF protection on all forms

- SQL injection prevention

- File upload validation

Privacy Features

- Users can only edit/delete their own recipes

- Secure session management

- No sensitive data storage in cookies

Best Practices

- Regular security updates

- Input validation on all forms

- Secure file upload handling

- Error handling without exposing system details

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Troubleshooting

Common Issues

1."Database not found" error

- Run database initialization: `python -c "from database import init\_db; init\_db()"`

2. "Module not found" errors

- Ensure all dependencies are installed: `pip install -r requirements.txt`

3. Image upload issues

- Check that the `static/uploads` folder exists

- Verify file is under 5MB and is JPG/PNG format

4. Login problems

- Clear browser cookies and cache

- Ensure JavaScript is enabled

Performance Tips

- Compress images before uploading

- Use specific search terms for better results

- Close unused browser tabs when using the app

Getting Help

- Check the GitHub issues page

- Verify your Python version is 3.10+

- Ensure all installation steps were followed correctly

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Support Information

Developer: TheAshMonarch

GitHub Repository: https://github.com/TheAshMonarch/Crave

Live Application: https://theashmonarch.pythonanywhere.com

For support issues, please check the GitHub repository for existing solutions or create a new issue with detailed information about your problem.

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