

Introduction.....	2
Login & Registration Process (FoodFusion Project Pattern).....	17
1) Consistent Layout (All Pages)	31
(a)"Sign up Now" pop-up.....	94
(b)links to privacy and cookie information.....	95
A. Screenshots and Diagrams.....	102
B. Security Controls	121
C. Learning Outcomes	123
D. Version Control and Deployment Practices.....	123
E. Challenges and Solutions	124
F. Testing Table	125

Introduction

The rapid adoption of web-based platforms has utterly changed the way communities inform each other, cooperate, and interact with digital content. The online systems are the ones that greatly support the culinary world by letting users find recipes easily, sharing their cooking experiences, and being part of interactive food communities. FoodFusion is a platform that can be accessed through the Internet and which wants to boost both the hobby of cooking at home and the imagination in the kitchen. This will be an excellent, all-in-one platform where you can post recipes, find learning materials, and engage with the community.

The project requires the use of PHP, MySQL, Html, CSS, bootstrap and JavaScript to design and build a web application back-end that is both safe and secured, and that is database-driven for FoodFusion. The system is built to perform very crucial tasks like user registration and authentication, managing private passwords, account lockout features, and live data interaction. Among the main system features are a recipe database that is classified according to the type of cuisine, dietary restrictions, and the user's cooking level; a community cookbook where users can add their recipes; and areas for culinary and educational resources.

The project is also committed to user-friendliness, accessibility, and adaptability, which implies that it can run on any device while still safeguarding and maintaining the data's integrity. This project is a true reflection of the back-end development skills that are required in real-world web applications and at the same time, it helps in the development of these skills through the application of organized database design, secure login procedures, and dynamic web services which are the industry's best practices.

```

create_users.php X
...
15 if (!isset($pdo) || !($pdo instanceof PDO)) {
16     http_response_code(response_code: 500);
17     exit("DB connection error: $pdo not found. check config/con.php");
18 }
19
20 $sql = "
21 CREATE TABLE IF NOT EXISTS `users` (
22     `user_id` BIGINT(20) UNSIGNED NOT NULL AUTO_INCREMENT,
23     `fname` VARCHAR(50) NOT NULL,
24     `lname` VARCHAR(50) NOT NULL,
25     `phone` VARCHAR(20) NULL DEFAULT NULL,
26     `username` VARCHAR(30) NOT NULL,
27     `email` VARCHAR(100) NOT NULL,
28     `password_hash` VARCHAR(255) NOT NULL,
29     `gender` ENUM('Male', 'Female', 'Other') NULL DEFAULT NULL,
30     `is_active` TINYINT(1) NOT NULL DEFAULT 1,
31     `last_login_at` DATETIME NULL DEFAULT NULL,
32     `failed_login_attempts` INT(10) UNSIGNED NOT NULL DEFAULT 0,
33     `created_at` TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,
34     `updated_at` TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
35     PRIMARY KEY (`user_id`),
36     UNIQUE KEY `unique_email` (`email`),
37     KEY `idx_role` (`role`),
38 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_unicode_ci;
39 ";
40
41 try {
42     $pdo->exec($statement: $sql);
43     echo "<h2>OK: users table created/updated (IF NOT EXISTS)</h2>";
44 }
45 // quick verify
46 $sth = $pdo->query("SHOW TABLES LIKE 'users'");
47 echo $sth ? "User table exists.<br>" : "Warning: users not found.<br>";
48
49 } catch (Exception $e) {
50     http_response_code(response_code: 500);
51     echo "<h2>500</h2>";
52     echo "<pre><?php print_r($e->getMessage()); ?></pre>";
53 }
54
55

```

Figure 1.1

Table creates

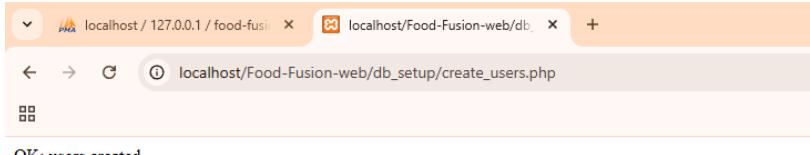


Figure 1.2

User table

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	user_id	bigint(20)	utf8mb4_unicode_ci	UNSIGNED	No	None	AUTO_INCREMENT		
2	fname	varchar(50)	utf8mb4_unicode_ci		No	None			
3	lname	varchar(50)	utf8mb4_unicode_ci		No	None			
4	phone	varchar(20)	utf8mb4_unicode_ci		Yes	NULL			
5	username	varchar(30)	utf8mb4_unicode_ci		No	None			
6	email	varchar(100)	utf8mb4_unicode_ci		No	None			
7	password_hash	varchar(255)	utf8mb4_unicode_ci		No	None			
8	gender	enum('Male', 'Female', 'Other')	utf8mb4_unicode_ci		Yes	NULL			
9	role	enum('user', 'chef')	utf8mb4_unicode_ci		No	user			
10	is_active	tinyint(1)			No	1			
11	last_login_at	datetime			Yes	NULL			
12	failed_login_attempts	int(10)		UNSIGNED	No	0			
13	lockout_until	datetime			Yes	NULL			
14	created_at	timestamp			No	current_timestamp()	ON UPDATE CURRENT_TIMESTAMP()		
15	updated_at	timestamp			No	current_timestamp()	ON UPDATE CURRENT_TIMESTAMP()		

Figure 1.3

Insert data

		user_id	fname	lname	phone	username	email	password_hash	gender	role	is_active	last_login_at	failed_login_attempts	lockout_until	created_at	updated_at
1		6	Ye	Myat	Kyaw	09762007221	Yemyat70	\$2y\$10\$ZnOf5Pr3mzUYtsDm0PNNRNIHR/Qc8CCzGr	Male	chef	1	NULL	0	NULL	2026-01-11	2026-01-11
2		7	Aung	Myat	09762007222	Aung67	aung2@gn	\$2y\$10\$7ac9BuSHChBwmO2f2AYteqXExNkyoI5l8mgr	Male	user	1	2026-01-11 01:05:10	0	NULL	2026-01-11	2026-01-11

Figure 1.4

Chef profile table code

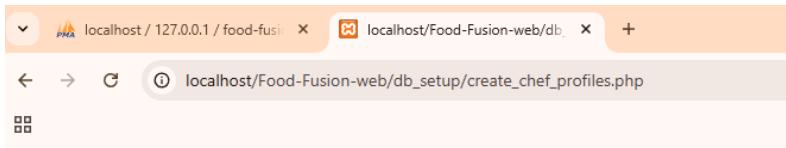
```

1 db_setup > <-- create_chef_profiles.php > ...
2
3 declare(strict_types=1);
4
5 error_reporting(E_ALL);
6 ini_set('display_errors', '1');
7 require_once __DIR__ . '/../../config/config.php'; // $pdo
8
9 if (!class_exists('PDO')) {
10     http_response_code(500);
11     exit("DB connection error: $pdo not found. Check config/conn.php");
12 }
13
14 $sql = "
15 CREATE TABLE IF NOT EXISTS `chef_profiles` (
16     `chef_id` INT(10) UNSIGNED NOT NULL AUTO_INCREMENT,
17     `user_id` BIGINT(20) UNSIGNED NOT NULL,
18     `chef_name` VARCHAR(100) NOT NULL,
19     `country` VARCHAR(100) NULL DEFAULT NULL,
20     `created_at` TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,
21     `updated_at` TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
22     PRIMARY KEY (`chef_id`),
23     INDEX idx_chef_user(`user_id`),
24     KEY `idx_chef_country` (`country`)
25 ) ENGINE=InnoDB
26 DEFAULT CHARSET=utf8mb4
27 COLLATE=utf8mb4_unicode_ci;
28 ";
29
30 try {
31     $pdo->execute($sql);
32     echo "<div> chef_profiles table created / already exists</div>";
33
34     $rows = $pdo->query("SHOW TABLES LIKE 'chef_profiles'")->fetch(PDO::FETCH_NUM);
35     echo "Rows: " . $rows[1] . "<br><div>verified: chef_profiles exists.</div>" . "<p>Warning: chef_profiles not found.</p>";
36 } catch (Throwable $e) {
37     http_response_code($e->getCode());
38     echo "Error: " . $e->getMessage();
39     echo "<pre>" . htmlspecialchars(string: $e->getMessage(), Flags: ENT_QUOTES, encoding: 'UTF-8') . "</pre>";
40 }
41

```

Figure 1.5

Chef table create



OK: chef_profiles table created / already exists

Verified: chef_profiles exists.

Figure 1.6

Chef table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	chef_id	int(10)		UNSIGNED	No	None		AUTO_INCREMENT	Change Drop More
2	user_id	bigint(20)		UNSIGNED	No	None			Change Drop More
3	chef_name	varchar(100)	utf8mb4_unicode_ci		No	None			Change Drop More
4	country	varchar(100)	utf8mb4_unicode_ci		Yes	NULL			Change Drop More
5	created_at	timestamp			No	current_timestamp()			Change Drop More
6	updated_at	timestamp			No	current_timestamp()	ON UPDATE CURRENT_TIMESTAMP()		Change Drop More

Check all With selected: Browse [Change](#) [Drop](#) Primary Unique Index Spatial Fulltext Add to central columns

Add column(s) after updated_at [Go](#)

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	chef_id	1	A	No	
Edit Rename Drop	uq_chef_user	BTREE	Yes	No	user_id	1	A	No	
Edit Rename Drop	idx_chef_country	BTREE	No	No	country	1	A	Yes	

Figure 1.7

Insert data

		chef_id	user_id	chef_name	country	created_at	updated_at
		4	6	chef yemyat	myanmar	2026-01-11 00:58:25	2026-01-11 00:58:25
		Edit	Copy	Delete			

Figure 1.8

Admin table create code

```

CREATE TABLE IF NOT EXISTS `admins` (
    `admin_id` int(11) NOT NULL AUTO_INCREMENT,
    `username` varchar(50) NOT NULL,
    `password_hash` varchar(255) NOT NULL,
    `is_active` tinyint(1) NOT NULL DEFAULT 1,
    `created_at` DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
    PRIMARY KEY (`admin_id`),
    UNIQUE KEY `username` (`username`)
) ENGINE=InnoDB
  DEFAULT CHARSET=utf8mb4
  COLLATE=utf8mb4_general_ci;
}

try {
    $pdo = new PDO('mysql:host=localhost;dbname=food-fusion-web', 'root', '');
    echo "<p>OK: admins table created / already exists</p>";
} catch (PDOException $e) {
    echo "<p>Error: " . $e->getMessage() . "</p>";
}
echo "<p>" . $pdo->query("SHOW TABLES LIKE 'admins'")->fetchColumn() . "</p>";
echo "<p>OK: admin table created</p>";

```

Figure 1.9

Table creates

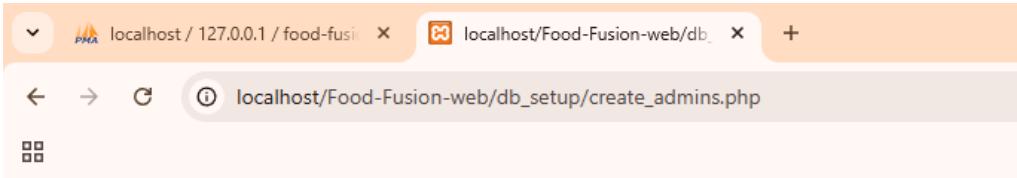


Figure 1.10

Admin table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	admin_id	int(11)			No	None	AUTO_INCREMENT		Change Drop More
2	username	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
3	password_hash	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
4	is_active	tinyint(1)			No	1			Change Drop More
5	created_at	datetime			No	current_timestamp()			Change Drop More

Figure 1.11

Insert data

	admin_id	username	password_hash	is_active	created_at
	1	yemyat67	\$2y\$10\$T.juCNENGpxzVqwiHiEZseX1EE.FsICIGUy5BcibA7...	1	2026-01-10 09:53:08

Figure 1.12

User Chef table create code

```

File Edit Selection View Go Run Terminal Help
EXPLORER FOOD-FUSION-WEB ...
FOOD-FUSION-WEB
  admin
  config
    admin_auth.php
    auth_actions.php
    auth.php
    conn.php
  db_setup
    create_admins.php
    create_chef_profiles.php
  create_chef.php
    create_community_chef_recipes.php
    create_community_comments.php
    create_community_posts.php
    create_community_reactions.php
    create_contact_messages.php
    create_cooking_events.php

create_chef.php
  <?php
  require_once __DIR__ . '/../../config/conn.php';
  $sql = "
    CREATE TABLE IF NOT EXISTS chef (
      chef_id INT AUTO_INCREMENT PRIMARY KEY,
      user_id INT NOT NULL,
      created_at DATETIME DEFAULT CURRENT_TIMESTAMP
    ) ENGINE=InnoDB;
  ";
  $pdo->exec(statement: $sql);
  echo "OK: chef created";
  
```

Figure 1.13

Table creates

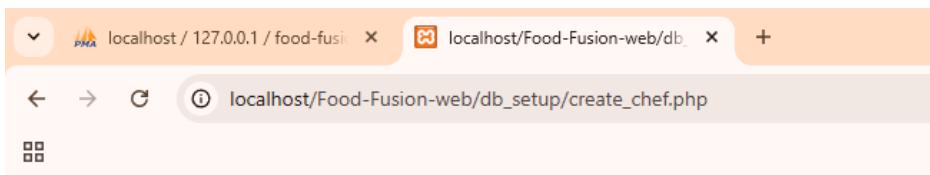


Figure 1.14

Chef table

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	chef_id	int(10)	utf8mb4_unicode_ci	UNSIGNED	No	None		AUTO_INCREMENT	Change Drop More
2	chef_name	varchar(100)	utf8mb4_unicode_ci		No	None		Change Drop More	
3	country	varchar(100)	utf8mb4_unicode_ci		Yes	NULL		Change Drop More	
4	created_at	timestamp			No	current_timestamp()		Change Drop More	

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	chef_id	5	A	No	

Create an index on 1 columns Go

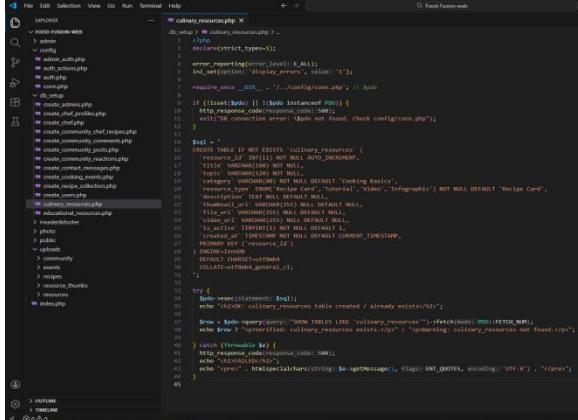
Figure 1.15

Insert data

		chef_id	chef_name	country	created_at
<input type="checkbox"/>	Edit Copy Delete	1	Chef Giovanni Rossi	Italy	2026-01-09 02:55:41
<input type="checkbox"/>	Edit Copy Delete	2	Chef Somchai Prasert	Thailand	2026-01-09 02:55:41
<input type="checkbox"/>	Edit Copy Delete	3	Chef Arjun Sharma	India	2026-01-09 02:55:41
<input type="checkbox"/>	Edit Copy Delete	4	Chef Maria Hernandez	Mexico	2026-01-09 02:55:41
<input type="checkbox"/>	Edit Copy Delete	5	Chef Kenji Tanaka	Japan	2026-01-09 02:55:41

Figure 1.16

Culinary resources table create code



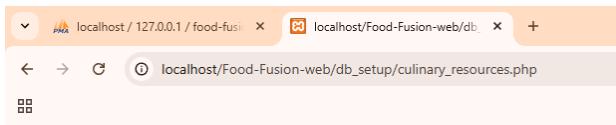
```

File Edit Selection View Go Run Terminal Help
FOOD-FUSION-WEB
culinary_resources.php X
db_setze > <?php
    $db = mysqli_connect('localhost', 'root', '');
    if(mysqli_connect_error($db)) {
        die("Connection error: " . mysqli_connect_error());
    }
    require_once __DIR__ . '/../../config/com.php'; // loads
    if (!isset($db)) { // if db is not yet created
        http_response_code(500); // Internal server error
        die("DB connection error: $db not found. Check config/com.php");
    }
    $sql = "
CREATE TABLE IF NOT EXISTS `culinary_resources` (
    `resource_id` int(11) NOT NULL,
    `title` varchar(100) NOT NULL,
    `topic` varchar(100) NOT NULL,
    `category` varchar(50) NOT NULL DEFAULT 'Cooking Basics',
    `description` text NOT NULL,
    `file_url` varchar(255) NOT NULL,
    `video_url` varchar(255) NOT NULL,
    `created_at` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
    `is_active` tinyint(1) NOT NULL
) ENGINE=InnoDB
    CHARACTER SET utf8
    COLLATE=utf8_general_ci;
";
    try {
        $db->query($sql);
        echo "Database: culinary_resources table created / already exists!  
";
    } catch (Exception $e) {
        $msg = $e->getMessage();
        http_response_code(500);
        echo "Database: $msg";
        die($msg);
    }
}

```

Figure 1.17

Table creates



Verified: culinary_resources exists.

Figure 1.18

Culinary resources table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	resource_id	int(11)			No	None	AUTO_INCREMENT		
2	title	varchar(100)	utf8mb4_general_ci		No	None			
3	topic	varchar(100)	utf8mb4_general_ci		No	None			
4	category	varchar(50)	utf8mb4_general_ci		No	Cooking Basics			
5	resource_type	enum('Recipe Card','Tutorial','Video','Infographic')			No	Recipe Card			
6	description	text			Yes	NULL			
7	thumbnail_url	varchar(255)	utf8mb4_general_ci		Yes	NULL			
8	file_url	varchar(255)	utf8mb4_general_ci		Yes	NULL			
9	video_url	varchar(255)	utf8mb4_general_ci		Yes	NULL			
10	is_active	tinyint(1)			No	1			
11	created_at	timestamp			No	current_timestamp()			

Figure 1.19

Insert data

resource_id	title	topic	category	resource_type	description	thumbnail_url	file_url	video_url	is_active	created_at
1	Knife Skills: Core Cuts & Safety	Knife Skills	Cooking Basics	Tutorial	Master the chef's basic cuts: slice, dice, and the most common.	uploads/resource_thumbs/culinary/knife_skill.jpg	uploads/resources/knife_skill.pdf	https://youtu.be/rYHqEcA_U7mNzVjGCMmxaWPfLg0	1	2026-01-09 16:04:27
2	Seasoning Fundamentals: Salt, Acid, Fat	Seasoning	Cooking Basics	Infographic	A practical seasoning map that helps you understand how each flavor interacts.	uploads/resource_thumbs/culinary/seasoning.jpg	uploads/resources/seasoning_guide.pdf	https://youtu.be/bf8qf6DDxOs?si=BSQJZDq3Pyq64	1	2026-01-09 17:30:07
3	Sauces Cheat Sheet: Master Sauces	Sauces	Techniques	PDF	A printable reference guide to common sauces like ketchup, mayonnaise, ranch, etc.	uploads/resource_thumbs/culinary/sauces.jpg	uploads/resources/mother_sauces.pdf	https://youtu.be/fcweLab06CQ?si=HWCQGmAOJ2ex7b8	1	2026-01-09 17:30:07
4	Stir-Fry Method: Heat Control & Timing	Stir-Fry	Techniques	Tutorial	Learn how to manage heat, control cooking time, and season with precision.	uploads/resource_thumbs/culinary/stir_fry.jpg	uploads/resources/stir_fry_timing.pdf	https://youtu.be/tFKEKz2Sc5?	1	2026-01-09 17:30:07
5	Meal Prep Blueprint: 1 Hour, 5 Meals	Meal Prep	Planning	Recipe Card	A structured meal prep template that helps you plan your meals for the week.	uploads/resource_thumbs/culinary/meal_prep.jpg	uploads/resources/meal_prep_blueprint.pdf	https://youtu.be/tf1Kq6tMqPg?si=gBwvW_wetliphPN	1	2026-01-09 17:30:07
6	Pasta Emulsions: Italian Emulsions	Pasta	Cuisine Basics	Tutorial	Understand why pasta needs water and learn how to make it satisfying.	uploads/resource_thumbs/culinary/italian.jpg	uploads/resources/pasta_emulsion.pdf	https://youtu.be/43J0uNmE2kM?si=gIgHqPhU03MuV94	1	2026-01-09 17:30:07
7	Salted Formulas: Balance, Texture, Thickness	Salts	Cooking Basics	Infographic	Learn how to use salt effectively to balance flavors and create satisfying textures.	uploads/resource_thumbs/culinary/salts.jpg	uploads/resources/salted_formulas.pdf	https://youtu.be/k3dUnmE2kM?si=qIm2qSGKzduUJRC	1	2026-01-09 17:30:07

Figure 1.20

Culinary download table create code

```

File Edit Selection View Do Run Terminal Help
FOOD-FUSION-WEB
  > admin
    > config
      > auth_actions.php
      > auth.php
      > conn.php
    > db_setup
      > create_admins.php
      > create_chef.php
      > create_community_chef_recipes.php
      > create_community_comments.php
      > create_community_posts.php
      > create_contacts_recipes.php
      > create_contacts_recipes.php
      > create_cooking_events.php
      > create_culinary_downloads.php
      > create_recipe_collection.php
      > create_recipes.php
      > create_recipes.php
      > culinary_resources.php
      > educational_resources.php
    > Header/footer
    > photo
    > public
    > uploads
    > community
    > events
    > recipes
    > resource_thumbs
    > resources
    > index.php

culinary_resources.php > create_culinary_downloads.php > create_culinary_downloads.php

db_setup > create_culinary_downloads.php > create_culinary_downloads.php

1 <?php
2     declare(strict_types=1);
3
4     error_reporting(error_level:E_ALL);
5
6     ini_set('display_errors', value:'1');
7
8     require_once __DIR__ . '/config/conn.php'; // $pdo
9
10    if (!isset($pdo) || !($pdo instanceof PDO)) {
11        http_response_code(response_code:500);
12        exit("DB connection error: $pdo not found. check config/conn.php");
13    }
14
15    $sql = "
16        CREATE TABLE IF NOT EXISTS `culinary_downloads` (
17            `download_id` INT(11) NOT NULL AUTO_INCREMENT,
18            `resource_id` INT(11) NOT NULL,
19            `user_id` INT(11) NOT NULL,
20            `ip_address` VARCHAR(45) NOT NULL DEFAULT NULL,
21            `user_agent` VARCHAR(255) NOT NULL DEFAULT NULL,
22            `created_at` TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,
23            PRIMARY KEY(`download_id`),
24            KEY `idx_resource_id` (`resource_id`),
25            KEY `idx_user` (`user_id`)
26        ) ENGINE=InnoDB
27        DEFAULT CHARSET=utf8mb4
28        COLLATE=utf8mb4_general_ci;
29    ";
30
31    try {
32        $pdo->exec(statement:$sql);
33    } catch (Throwable $e) {
34        http_response_code(response_code:500);
35        echo "Error: " . $e->getMessage();
36    }
37
38    $row = $pdo->query(query:"SHOW TABLES LIKE 'culinary_downloads'")->fetch(mode:PDO::FETCH_NUM);
39
40    echo $row[0] > "culinary_downloads exists.</p>" ; "cpWarning: culinary_downloads not found.</p>";
41
42 } catch (Throwable $e) {
43     http_response_code(response_code:500);
44     echo "Error: " . $e->getMessage();
45     die("Error: " . htmlSpecialChars(strings:$e->getMessage(), flags:ENT_QUOTES, encoding:'UTF-8') . "</pre>");
46 }

```

Figure 1.21

Table create



OK: culinary_downloads table created / already exists

Verified: culinary_downloads exists.

Figure 1.22

Culinary download table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	download_id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	resource_id	int(11)			No	None			Change Drop More
3	user_id	int(11)			Yes	NULL			Change Drop More
4	ip_address	varchar(45)	utf8mb4_general_ci		Yes	NULL			Change Drop More
5	user_agent	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
6	created_at	timestamp			No	current_timestamp()			Change Drop More

Figure 1.23

Insert data

		download_id	resource_id	user_id	ip_address	user_agent	created_at
<input type="checkbox"/>	Edit Copy Delete	1	20	NULL ::1		Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/98.0.4758.102 Safari/537.36	2026-01-09 17:36:43
<input type="checkbox"/>	Edit Copy Delete	2	13	NULL ::1		Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/98.0.4758.102 Safari/537.36	2026-01-09 17:37:07
<input type="checkbox"/>	Edit Copy Delete	3	13	NULL ::1		Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/98.0.4758.102 Safari/537.36	2026-01-09 17:39:10
<input type="checkbox"/>	Edit Copy Delete	4	20	NULL ::1		Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/98.0.4758.102 Safari/537.36	2026-01-09 17:39:18
<input type="checkbox"/>	Edit Copy Delete	5	11	NULL ::1		Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/98.0.4758.102 Safari/537.36	2026-01-09 17:42:35
<input type="checkbox"/>	Edit Copy Delete	6	20	NULL ::1		Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/98.0.4758.102 Safari/537.36	2026-01-09 18:18:12

Figure 1.24

Education resources table create code

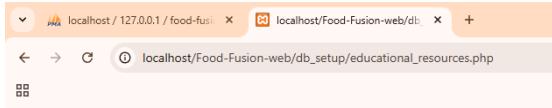
```

CREATE TABLE `educational_resources` (
  `resource_id` int(11) AUTO_INCREMENT,
  `title` varchar(180),
  `topic` varchar(120),
  `category` varchar(80),
  `resource_type` enum('Tutorial', 'Video', 'Infographic', 'PDF', 'Worksheet'),
  `description` text,
  `thumbnail_url` varchar(255),
  `file_url` varchar(255),
  `video_url` varchar(255),
  `is_active` tinyint(1),
  `created_at` timestamp
);

```

Figure 1.25

Table creates



OK: educational_resources table created / already exists

Verified: educational_resources exists.

Figure 1.26

Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	resource_id	int(11)	utf8mb4_general_ci	No	None	AUTO_INCREMENT			Change Drop More
2	title	varchar(180)	utf8mb4_general_ci	No	None				Change Drop More
3	topic	varchar(120)	utf8mb4_general_ci	No	None				Change Drop More
4	category	varchar(80)	utf8mb4_general_ci	No	Basics				Change Drop More
5	resource_type	enum('Tutorial', 'Video', 'Infographic', 'PDF', 'Worksheet')	utf8mb4_general_ci	No	PDF				Change Drop More
6	description	text	utf8mb4_general_ci	Yes	NULL				Change Drop More
7	thumbnail_url	varchar(255)	utf8mb4_general_ci	Yes	NULL				Change Drop More
8	file_url	varchar(255)	utf8mb4_general_ci	Yes	NULL				Change Drop More
9	video_url	varchar(255)	utf8mb4_general_ci	Yes	NULL				Change Drop More
10	is_active	tinyint(1)		No	1				Change Drop More
11	created_at	timestamp		No	current_timestamp()				Change Drop More

Figure 1.27

Insert data

resource_id	title	topic	category	resource_type	description	thumbnail_url	file_url	video_url	is_active	created_at
1	Solar PV	Science	Physics	PDF	A clear explanation of how solar panels work and how they affect the environment.	uploads/resource_thumbnail/solar_pv_basics.pdf	uploads/resource_file/solar_pv_basics.pdf	uploads/resource_video/solar_pv_basics.mp4	1	2023-09-15 10:00:00
2	Wind Turbine	Science	Physics	Infographic	A single-page infographic on how wind turbines generate electricity.	uploads/resource_thumbnail/wind_turbine_infographic.pdf	uploads/resource_file/wind_turbine_infographic.pdf	uploads/resource_video/wind_turbine_infographic.mp4	1	2023-09-15 10:00:00
3	Hydroelectric Power	Science	Physics	Video	An explanation of how hydroelectric power works, including the use of dams and turbines.	uploads/resource_thumbnail/hydroelectric_power_explained.mp4	uploads/resource_file/hydroelectric_power_explained.mp4	uploads/resource_video/hydroelectric_power_explained.mp4	1	2023-09-15 10:00:00
4	Battery Storage	Technology	Technology	PDF	A detailed explanation of how batteries store and release energy (DC/AC).	uploads/resource_thumbnail/battery_storage.pdf	uploads/resource_file/battery_storage.pdf	uploads/resource_video/battery_storage.mp4	1	2023-09-15 10:00:00
5	Grid Fundamentals	Grid	Grid	Basic	A general introduction to the basic concepts of grid fundamentals.	uploads/resource_thumbnail/grid_fundamentals.pdf	uploads/resource_file/grid_fundamentals.pdf	uploads/resource_video/grid_fundamentals.mp4	1	2023-09-15 10:00:00
6	AC Power	Grid	Grid	Worksheet	Exercises for calculating AC power using formulas like P=VI and P=VIcosΦ.	uploads/resource_thumbnail/ac_power_worksheet.pdf	uploads/resource_file/ac_power_worksheet.pdf	uploads/resource_video/ac_power_worksheet.mp4	1	2023-09-15 10:00:00
7	Geothermal Energy	Geothermal	Technology	Infographic	Information about geothermal power plants, including how they work and where they are located.	uploads/resource_thumbnail/geothermal_energy_infographic.pdf	uploads/resource_file/geothermal_energy_infographic.pdf	uploads/resource_video/geothermal_energy_infographic.mp4	1	2023-09-15 10:00:00
8	Biomass Energy	Biomass	Economics	PDF	Explains the concept of biomass energy and its impact on the environment.	uploads/resource_thumbnail/biomass_energy.pdf	uploads/resource_file/biomass_energy.pdf	uploads/resource_video/biomass_energy.mp4	1	2023-09-15 10:00:00

Figure 1.28

Educational download table

```

File Edit Selection View Go Run Terminal Help
FOOD FUSION WEB
    Explorer
        FOOD FUSION WEB
            > admin
            > config
                admin.auth.php
                admin.actions.php
                auth.php
                auth.php
            > db_setup
                > create_educational_downloads.php
                > create_admins.php
                > create_chef_profiles.php
                > create_chef.php
                > create_community_comments.php
                > create_community_posts.php
                > create_community_reactions.php
                > create_messages.php
                > create_recipes.php
                > create_recipes_collection.php
                > create_users.php
                > culinary_resources.php
                > educational_resources.php
                > header/footer
                > index.php
                > photo
                > public
                > uploads
            > community
            > events
            > recipes
            > resource_thumbs
            > resources
        index.php

```

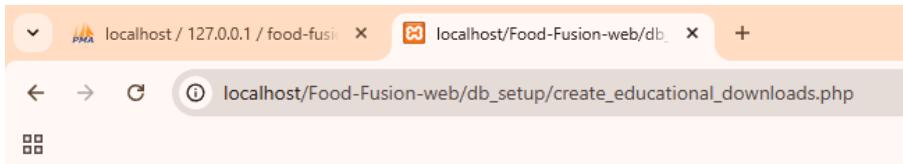
```

CREATE_EDUCATIONAL_DOWNLOADS_PNG_X
db_setup > create_educational_downloads.php > ...
1 <?php
2 declare(strict_types=1);
3
4 error_reporting(error_level: E_ALL);
5 ini_set(option: 'display_errors', value: '1');
6
7 require_once __DIR__ . '/config/conn.php'; // $pdo
8
9 if (!isset($pdo) || !($pdo instanceof PDO)) {
10     http_response_code(response_code: 500);
11     exit("DB connection error: $pdo not found. Check config/conn.php");
12 }
13
14 $sql = "
15 CREATE TABLE IF NOT EXISTS `educational_downloads` (
16     `download_id` INT(11) NOT NULL AUTO_INCREMENT,
17     `resource_id` INT(11) NOT NULL,
18     `user_id` INT(11) NULL DEFAULT NULL,
19     `ip_address` VARCHAR(45) NULL DEFAULT NULL,
20     `user_agent` VARCHAR(255) NULL DEFAULT NULL,
21     `created_at` TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,
22     PRIMARY KEY (`download_id`),
23     KEY `idx_resource` (`resource_id`),
24     KEY `idx_user` (`user_id`)
25 ) ENGINE=InnoDB
26 DEFAULT CHARSET=utf8mb4
27 COLLATE=utf8mb4_general_ci;
28 ";
29
30 try {
31     $pdo->exec(statement: $sql);
32     echo "<h2>The educational_downloads table created / already exists</h2>";
33     $pdo->query(query: "SHOW TABLES LIKE 'educational_downloads'")->fetch(mode: PDO::FETCH_NUM);
34     echo "Show - $pdo->query(query: \"SHOW TABLES LIKE 'educational_downloads'\")->fetch(mode: PDO::FETCH_NUM);";
35     echo "Error ? <p>verified: educational_downloads not found.</p>";
36 }
37 catch (Exception $e) {
38     http_response_code(response_code: 500);
39     echo "<h2>An error occurred!</h2>";
40     $e->getMessage();
41 }
42

```

Figure 1.29

Table create



Verified: educational_downloads exists.

Figure 1.30

Table

Server: 127.0.0.1 > Database: food-fusion-db > Table: educational_downloads

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	download_id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	resource_id	int(11)			No	None		Change Drop More	
3	user_id	int(11)			Yes	NULL		Change Drop More	
4	ip_address	varchar(45)	utf8mb4_general_ci		Yes	NULL		Change Drop More	
5	user_agent	varchar(255)	utf8mb4_general_ci		Yes	NULL		Change Drop More	
6	created_at	timestamp			No	current_timestamp()		Change Drop More	

Figure 1.31

Insert data

	download_id	resource_id	user_id	ip_address	user_agent	created_at
<input type="checkbox"/>	Edit Copy Delete	1	18	2 ::1	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit...	2026-01-10 11:50:40

Figure 1.32

Recipe collection table create code

```

CREATE TABLE IF NOT EXISTS `recipe_collection` (
    `recipe_id` int(10) UNSIGNED NOT NULL AUTO_INCREMENT,
    `name` varchar(255) utf8mb4_unicode_ci NOT NULL,
    `cuisine` varchar(100) utf8mb4_unicode_ci NOT NULL,
    `difficulty` varchar(50) utf8mb4_unicode_ci NOT NULL,
    `photo` text utf8mb4_unicode_ci NOT NULL,
    `description` text utf8mb4_unicode_ci NOT NULL,
    `chef_id` int(10) NOT NULL,
    `created_at` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
    PRIMARY KEY(`recipe_id`),
    KEY(`chef_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

```

SQL execution result:

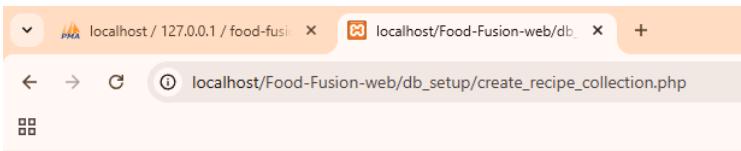
```

OK: recipe_collection table created / already exists

```

Figure 1.33

Table create



Verified: recipe_collection exists.

Figure 1.34

table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	recipe_id	int(10)	utf8mb4_unicode_ci	UNSIGNED	No	None	AUTO_INCREMENT		Change Drop More
2	name	varchar(255)	utf8mb4_unicode_ci		No	None			Change Drop More
3	dietary	varchar(100)	utf8mb4_unicode_ci		No	None			Change Drop More
4	cuisine	varchar(100)	utf8mb4_unicode_ci		No	None			Change Drop More
5	difficulty	varchar(50)	utf8mb4_unicode_ci		No	None			Change Drop More
6	recipe_type	varchar(100)	utf8mb4_unicode_ci		No	None			Change Drop More
7	ingredients	text	utf8mb4_unicode_ci		No	None			Change Drop More
8	image	varchar(255)	utf8mb4_unicode_ci		No	None			Change Drop More
9	description	text	utf8mb4_unicode_ci		No	None			Change Drop More
10	chef_id	int(10)	utf8mb4_unicode_ci	UNSIGNED	No	None			Change Drop More
11	created_at	timestamp	utf8mb4_unicode_ci		No	current_timestamp()			Change Drop More

Figure 1.35

Insert table

Created At	Recipe ID	Name	Dietary	Cuisine	Difficulty	Photo	Description	Chef ID
2020-04-04 10:34:48	1	Bread Loaf	Vegetarian	Italian	Hard	Main Course	Lettuce sheets, mushrooms, tomatoes sauce, meat.	FoodFusion/foodcollection/bread_loaf.jpg
2020-04-04 10:34:48	2	Mushroom Pizza	Vegetarian	Italian	Medium	Main Course	fresh mushrooms, cheese, tomato sauce, basil, olive oil.	FoodFusion/foodcollection/mushroom_pizza.jpg
2020-04-04 10:34:48	3	Mushroom Risotto	Vegetarian	Italian	Hard	Main Course	onions, mushrooms, vegetable stock, butter.	FoodFusion/foodcollection/mushroom_risotto.jpg
2020-04-04 10:34:48	4	Tomato	Vegetarian	Italian	Medium	Desert	tomatoes, basil, olive oil, sugar, lemon juice.	FoodFusion/foodcollection/tomato.jpg
2020-04-04 10:34:48	5	Tuna Yum Soup	Non	Thai	Medium	Soup	Rice noodles, tuna, egg, lime.	FoodFusion/foodcollection/tuna_yum_soup.jpg
2020-04-04 10:34:48	6	Pork Thai	Vegetarian	Thai	Medium	Main Course	Chicken, green curry paste, lime leaves.	FoodFusion/foodcollection/pork_thai.jpg
2020-04-04 10:34:48	7	Green Curry Chicken	Non	Thai	Medium	Main Course	Chicken, green curry paste, lime leaves.	FoodFusion/foodcollection/green_curry_chicken.jpg
2020-04-04 10:34:48	8	Mango Sticky Rice	Vegetarian	Thai	Fancy	Desert	Glasshopper rice, coconut milk, lime.	FoodFusion/foodcollection/mango_sticky_rice.jpg
2020-04-04 10:34:48	9	Chicken Biryani	Non	Indian	Medium	Main Course	Basmati rice, chicken, spices.	FoodFusion/foodcollection/chicken_biryani.jpg
2020-04-04 10:34:48	10	Salte Chicken	Non	Indian	Medium	Main Course	Chicken, lemon, lime, butter.	FoodFusion/foodcollection/salte_chicken.jpg
2020-04-04 10:34:48	11	Chana Masala	Vegan	Indian	Fancy	Main Course	Chickpeas, lentils, vegetables.	FoodFusion/foodcollection/chana_masala.jpg
2020-04-04 10:34:48	12	Minty Chana	Vegan	Indian	Hard	Snack	chickpeas, mint, yogurt, lime.	FoodFusion/foodcollection/minty_chana.jpg
2020-04-04 10:34:48	13	Pal Tandoori	Non	Indian	Medium	Main Course	tandoori chicken, mint, lime.	FoodFusion/foodcollection/pal_tandoori.jpg
2020-04-04 10:34:48	14	Chicken Quesadilla	Vegetarian	Mexican	Easy	Snack	Tortilla, chicken, cheese.	FoodFusion/foodcollection/chicken_quesadilla.jpg
2020-04-04 10:34:48	15	Guacamole	Vegan	Mexican	Easy	Snack	avocados, lime, tomatoes, lime.	FoodFusion/foodcollection/guacamole.jpg
2020-04-04 10:34:48	16	Quesadilla	Vegetarian	Mexican	Medium	Desert	rice, beans, cheese.	FoodFusion/foodcollection/quesadilla.jpg

Figure 1.36

Community post table

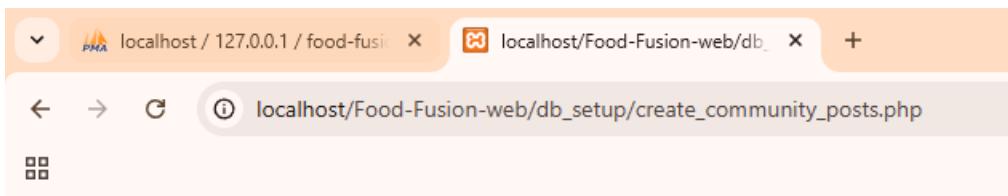
```

CREATE TABLE IF NOT EXISTS `community_posts` (
  `post_id` BIGINT(20) UNSIGNED NOT NULL AUTO_INCREMENT,
  `user_id` BIGINT(20) UNSIGNED NOT NULL,
  `post_type` ENUM('user_post', 'chef_recipe') NOT NULL DEFAULT 'user_post',
  `title` VARCHAR(200) NOT NULL,
  `content` TEXT NOT NULL,
  `cover_image` VARCHAR(255) NULL DEFAULT NULL,
  `cuisine` VARCHAR(100) NULL DEFAULT NULL,
  `difficulty` ENUM('Easy', 'Medium', 'Hard') NULL DEFAULT NULL,
  `prep_time` INT(11) NULL DEFAULT NULL,
  `instructions` TEXT NULL DEFAULT NULL,
  `status` ENUM('pending', 'approved', 'rejected') NOT NULL DEFAULT 'pending',
  `approved_by` INT(11) NULL DEFAULT NULL,
  `reject_reason` VARCHAR(255) NULL DEFAULT NULL,
  `created_at` DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
  `updated_at` DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  PRIMARY KEY (`post_id`),
  KEY `approved_by_idx` (`approved_by`),
  KEY `reject_reason_idx` (`reject_reason`)
) ENGINE=InnoDB
  CHARACTER SET utf8mb4
  COLLATE=utf8mb4_general_ci;
  
```

try {
 \$db->execute("CREATE TABLE IF NOT EXISTS `community_posts` (
 `post_id` BIGINT(20) UNSIGNED NOT NULL AUTO_INCREMENT,
 `user_id` BIGINT(20) UNSIGNED NOT NULL,
 `post_type` ENUM('user_post', 'chef_recipe') NOT NULL DEFAULT 'user_post',
 `title` VARCHAR(200) NOT NULL,
 `content` TEXT NOT NULL,
 `cover_image` VARCHAR(255) NULL DEFAULT NULL,
 `cuisine` VARCHAR(100) NULL DEFAULT NULL,
 `difficulty` ENUM('Easy', 'Medium', 'Hard') NULL DEFAULT NULL,
 `prep_time` INT(11) NULL DEFAULT NULL,
 `instructions` TEXT NULL DEFAULT NULL,
 `status` ENUM('pending', 'approved', 'rejected') NOT NULL DEFAULT 'pending',
 `approved_by` INT(11) NULL DEFAULT NULL,
 `reject_reason` VARCHAR(255) NULL DEFAULT NULL,
 `created_at` DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
 `updated_at` DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
 PRIMARY KEY (`post_id`),
 KEY `approved_by_idx` (`approved_by`),
 KEY `reject_reason_idx` (`reject_reason`)
) ENGINE=InnoDB
 CHARACTER SET utf8mb4
 COLLATE=utf8mb4_general_ci;
 ");
 echo "OK: community_posts table created / already exists\n";
} catch (PDOException \$e) {
 http_response_code(\$e->getCode());
 echo "Error: " . \$e->getMessage();
}
echo "<pre>" . htmlspecialchars(string: \$e->getMessage(), flags: INT_QUOTES, encoding: 'UTF-8') . "</pre>";
}

Figure 1.37

Table create



OK: community_posts table created / already exists

Verified: community_posts exists.

Figure 1.38

Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	post_id	bigint(20)		UNSIGNED	No	None		AUTO_INCREMENT	Change Drop More
2	user_id	bigint(20)		UNSIGNED	No	None			Change Drop More
3	post_type	enum('user_post', 'chef_recipe')	utf8mb4_general_ci		No	user_post			Change Drop More
4	title	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
5	content	text	utf8mb4_general_ci		No	None			Change Drop More
6	cover_image	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
7	cuisine	varchar(100)	utf8mb4_general_ci		Yes	NULL			Change Drop More
8	difficult	enum('Easy', 'Medium', 'Hard')	utf8mb4_general_ci		Yes	NULL			Change Drop More
9	prep_time	int(11)			Yes	NULL			Change Drop More
10	cook_time	int(11)			Yes	NULL			Change Drop More
11	ingredients	text	utf8mb4_general_ci		Yes	NULL			Change Drop More
12	instructions	text	utf8mb4_general_ci		Yes	NULL			Change Drop More
13	status	enum('pending', 'approved', 'rejected')	utf8mb4_general_ci		No	pending			Change Drop More
14	approved_by	int(11)			Yes	NULL			Change Drop More
15	approved_at	datetime			Yes	NULL			Change Drop More
16	reject_reason	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change Drop More
17	created_at	datetime			No	current_timestamp()			Change Drop More
18	updated_at	datetime			No	current_timestamp()	ON UPDATE CURRENT_TIMESTAMP()		Change Drop More

Figure 1.39

Insert data

	post_id	user_id	post_type	title	content	cover_image	cuisine	diffix	prep_time	cook_time	ingredients	instructions	status	approved_by	approved_at	reject_reason	created_at	updated_at
	9	6	chef_recipe	Traditional national dish of Myanmar. Mohinga	This is the beloved national dish of Myanmar. It	/Food-Fusion- web/uploads/community/cc_17	Myanmar	Harc	30	45	500g catfish or white fish (boneless fillets)	Prepare Fish: Simmer fish in a pot with water, bru..	Approved	NULI	NULL	NULL	2026-01-11 01:00:24	2026-01-11 01:00:24

Figure 1.40

Community comments table create code

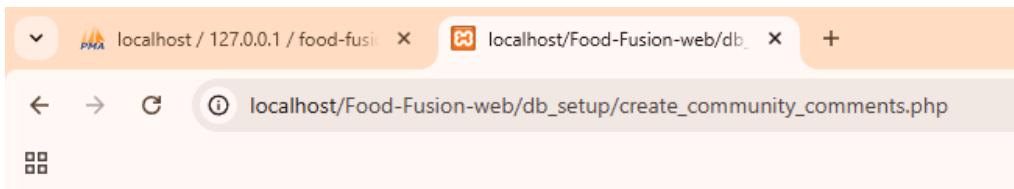
```

File Edit Selection View Go Run Terminal Help
create_community_chef_recipes.php create_community_comments.php
db_setup > create_community_comments.php > ..
1 declare(strict_types=1);
2
3 error_reporting(error_level: E_ALL);
4 ini_set(option: "display_errors", value: '1');
5
6 require_once __DIR__ . '/..config/com.php'; // $pdo
7
8 if (!isset($pdo) || !($pdo instanceof PDO)) {
9     http_response_code(response_code: 500);
10    exit("DB connection error: $pdo not found. Check config/com.php");
11 }
12
13
14 $sql = "
CREATE TABLE IF NOT EXISTS `community_comments` (
`comment_id` BIGINT(20) UNSIGNED NOT NULL AUTO_INCREMENT,
`post_id` BIGINT(20) UNSIGNED NOT NULL,
`user_id` BIGINT(20) UNSIGNED NOT NULL,
`comment_text` TEXT NOT NULL,
`is_hidden` TINYINT(1) NOT NULL DEFAULT 0,
`created_at` DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
PRIMARY KEY (`comment_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_general_ci;
";
15
16
17 try {
18     $pdo->exec(statement: $sql);
19     echo "OK: community_comments table created / already exists";
20 }
21 catch (Throwable $e) {
22     http_response_code(response_code: 500);
23     echo "Error: " . $e->getMessage();
24     echo "<br><pre>" . htmlspecialchars(string: $e->getMessage(), flags: ENT_QUOTES, encoding: 'UTF-8') . "</pre>";
25 }
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40

```

Figure 1.41

Table create



OK: community_comments table created / already exists

Verified: community_comments exists.

Figure 1.42

Table

The screenshot shows the MySQL Workbench interface with the 'community_comments' table selected. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	comment_id	bigint(20)		UNSIGNED	No	None		AUTO_INCREMENT	Change Drop More
2	post_id	bigint(20)		UNSIGNED	No	None		Change Drop More	
3	user_id	bigint(20)		UNSIGNED	No	None		Change Drop More	
4	comment_text	text	utf8mb4_general_ci		No	None		Change Drop More	
5	is_hidden	tinyint(1)			No	0		Change Drop More	
6	created_at	datetime			No	current_timestamp()		Change Drop More	

Figure 1.43

Insert data

The screenshot shows the MySQL Workbench interface with the 'community_comments' table selected. A new row is being inserted with the following values:

	comment_id	post_id	user_id	comment_text	is_hidden	created_at
<input type="checkbox"/>	5	9	7	good Recipe	0	2026-01-11 01:02:00

Figure 1.44

Community reaction table create code

```
create_community_reactions.php
db_setup > create_community_reactions.php ...
1 declare(strict_types=1);
2
3 error_reporting(error_level: E_ALL);
4 ini_set(option: display_errors, value: "1");
5
6 require_once __DIR__ . "/../config/config.php"; // $pdo
7
8 if (!isset($pdo) || !$pdo instanceof PDO) {
9     http_response_code(response_code: 500);
10    exit("DB connection error: $pdo not found. Check config/config.php");
11 }
12
13 $sql = "
14 CREATE TABLE IF NOT EXISTS `community_reactions` (
15     `reaction_id` BIGINT(20) UNSIGNED NOT NULL AUTO_INCREMENT,
16     `post_id` BIGINT(20) UNSIGNED NOT NULL,
17     `user_id` BIGINT(20) UNSIGNED NOT NULL,
18     `reaction_type` ENUM('like', 'heart') NOT NULL,
19     `created_at` DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
20     PRIMARY KEY(`reaction_id`)
21 ) ENGINE=InnoDB
22 DEFAULT CHARSET=utf8mb4
23 COLLATE=utf8mb4_general_ci
24 ";
25
26 try {
27     $pdo->exec(statement: $sql);
28 } catch (\Exception $e) {
29     echo "<h2>FAILED</h2>";
30     echo "<p>" . $e->getMessage() . "</p>";
31 }
32
33 $row = $pdo->query(query: "SHOW TABLES LIKE 'community_reactions'")->fetch(mode: PDO::FETCH_NUM);
34
35 if ($row[0] != "community_reactions") {
36     http_response_code(response_code: 500);
37     echo "<h2>FAILED</h2>";
38     echo "<p>Warning: community_reactions not found.</p>";
39 }
40
41 }
```

Figure 1.45

Table create



Figure 1.46

table

The screenshot shows the MySQL Workbench interface for the 'food-fusion-db' database. The 'community_reactions' table is selected. The table structure is as follows:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	reaction_id	bigint(20)		UNSIGNED	No	None		AUTO_INCREMENT	
2	post_id	bigint(20)		UNSIGNED	No	None			
3	user_id	bigint(20)		UNSIGNED	No	None			
4	reaction_type	enum('like', 'heart')	utf8mb4_general_ci		No	None			
5	created_at	datetime			No	current_timestamp()			

Figure 1.47

Insert data

The screenshot shows the MySQL Workbench interface for the 'food-fusion-db' database. A new row is being inserted into the 'community_reactions' table:

	reaction_id	post_id	user_id	reaction_type	created_at
<input type="checkbox"/>	7	9	7	heart	2026-01-11 03:08:37

Below the table, there are buttons for Edit, Copy, and Delete.

Figure 1.48

Contact message

```

File Edit Selection View Go Run Terminal Help
create_contact_messages.php
db_setup > create_contact_messages.php > ...
5 ini_set(option: 'display_errors', value: '1');
6
7 require_once __DIR__ . '/..../config/conn.php'; // $pdo
8
9 if (!isset($pdo) || !($pdo instanceof PDO)) {
10     http_response_code(response_code: 500);
11     exit('DB connection error: $pdo not found. Check config/conn.php');
12 }
13
14 $sql = "
15 CREATE TABLE IF NOT EXISTS `contact_messages` (
16     `message_id` INT(11) NOT NULL AUTO_INCREMENT,
17     `user_id` INT(11) NULL DEFAULT NULL,
18     `name` VARCHAR(120) NOT NULL,
19     `email` VARCHAR(190) NOT NULL,
20     `subject` VARCHAR(200) NOT NULL,
21
22     `type` ENUM('Enquiry','Recipe Request','Feedback','Bug Report') NOT NULL DEFAULT 'Enquiry',
23
24     `message` TEXT NOT NULL,
25     `status` ENUM('new','read','replied','archived') NOT NULL DEFAULT 'new',
26     `created_at` TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,
27
28     PRIMARY KEY (`message_id`)
29 ) ENGINE=InnoDB
30     DEFAULT CHARSET=utf8mb4
31     COLLATE=utf8mb4_general_ci;
32 ";
33
34
35 try {
36     $pdo->exec(statement: $sql);
37     echo "<h2>OK: contact_messages table created / already exists</h2>";
38
39     $row = $pdo->query(query: "SHOW TABLES LIKE 'contact_messages'")->fetch(mode: PDO::FETCH_NUM);
40
41     echo $row ? "<p>Verified: contact_messages exists.</p>" : "<p>Warning: contact_messages not found.</p>";
42 }
43 catch (Throwable $e) {
44     http_response_code(response_code: 500);
45     echo "<h2>FAILED</h2>";
46     echo "<pre> . htmlspecialchars(string: $e->getMessage(), flags: ENT_QUOTES, encoding: 'UTF-8') . "</pre>";
47 }

```

Figure 1.49

Table create



Verified: contact_messages exists.

Figure 1.50

table

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	message_id	int(11)		No	None		AUTO_INCREMENT		Change Drop More
2	user_id	int(11)			Yes	NULL			Change Drop More
3	name	varchar(120)	utf8mb4_general_ci	No	None				Change Drop More
4	email	varchar(190)	utf8mb4_general_ci	No	None				Change Drop More
5	subject	varchar(200)	utf8mb4_general_ci	No	None				Change Drop More
6	type	enum('Enquiry','Recipe Request','Feedback','Bug Report')	utf8mb4_general_ci	No	Enquiry				Change Drop More
7	message	text	utf8mb4_general_ci	No	None				Change Drop More
8	status	enum('new','read','replied','archived')	utf8mb4_general_ci	No	new				Change Drop More
9	created_at	timestamp		No	current_timestamp()				Change Drop More

Print Propose table structure Track table Move columns Normalize

Add 1 column(s) after created_at Go

Figure 1.51

Insert data

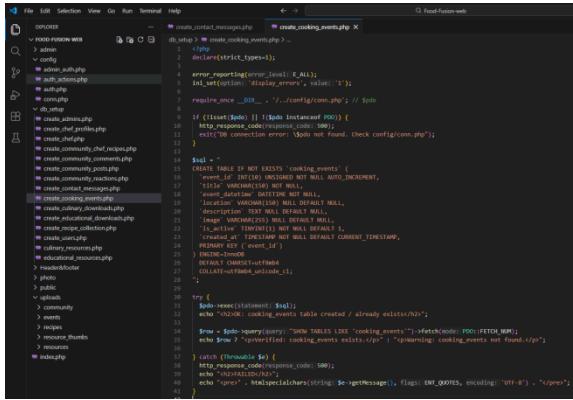
← → message_id user_id name email subject type message status created_at

2 7 Aung Kaung Myat aung2@gmail.com Request for Service Pricing Enquiry Hello, I am interested in learning more about your... new 2026-01-11 03:10:42

Edit Copy Delete

Figure 1.52

Cooking event table create code

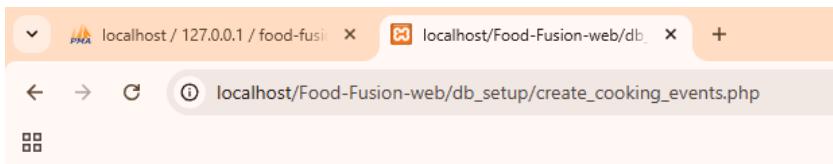


```

File Edit Selection View Go Run Terminal Help
D:\Food-Fusion-web\create_cooking_events.php X
D:\Food-Fusion-web\create_cooking_events.php
1. //include config file
2. require('config.php');
3. //decide strict type=1;
4. error_reporting(error_level_E_ALL);
5. ini_set(option_display_errors, value='1');
6. require_once __DIR__ . '/config/com.php'; // $obj
7. if (!isset($obj) || !($obj instanceof PDO)) {
8.     http_response_code(response_code: 500);
9.     die("DB connection error. MySQL not found. Check config/com.php");
10. }
11. $sql = "
12. CREATE TABLE IF NOT EXISTS cooking_events (
13.     event_id INT(10) UNSIGNED NOT NULL AUTO_INCREMENT,
14.     title VARCHAR(150) NOT NULL,
15.     event_datetime DATETIME NOT NULL,
16.     location VARCHAR(150) NULL DEFAULT NULL,
17.     description TEXT NULL DEFAULT NULL,
18.     image VARCHAR(255) NULL DEFAULT NULL,
19.     is_active TINYINT(1) NOT NULL DEFAULT 1,
20.     created_at timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
21.     PRIMARY KEY (event_id)
22. ) ENGINE=InnoDB
23. COLLATE=utf8mb4_unicode_ci;
24. ";
25. try {
26.     $obj->query($sql);
27.     echo "OK: cooking_events table created / already exists</b>";
28. } catch (Exception $e) {
29.     echo $e->getMessage();
30.     http_response_code(response_code: 500);
31. }
32. echo "<br>" . htmlspecialchars(string: $e->getMessage(), flags: ENT_QUOTES, encoding: 'UTF-8') . "<br>";
33. 
```

Figure 1.53

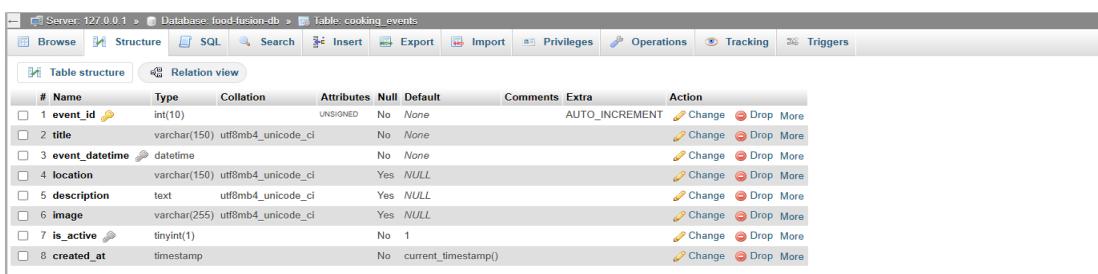
Table creates



Verified: cooking_events exists.

Figure 1.54

Table



Server: 127.0.0.1 > Database: food-fusion-db > Table: cooking_events

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	event_id	int(10)	utf8mb4_unicode_ci	UNSIGNED	No	None	AUTO_INCREMENT		
2	title	varchar(150)	utf8mb4_unicode_ci		No	None			
3	event_datetime	datetime			No	None			
4	location	varchar(150)	utf8mb4_unicode_ci		Yes	NULL			
5	description	text	utf8mb4_unicode_ci		Yes	NULL			
6	image	varchar(255)	utf8mb4_unicode_ci		Yes	NULL			
7	is_active	tinyint(1)			No	1			
8	created_at	timestamp			No	current_timestamp()			

Figure 1.55

Data insert



	event_id	title	event_datetime	location	description	image	is_active	created_at
	1	Weekend Pasta Workshop	2026-02-18 11:00:00	FoodFusion Kitchen Studio	Hands-on workshop covering fresh pasta dough, shap...	/uploads/events/pasta_workshop.png	1	2026-01-09 05:24:27
	2	Healthy Meal Prep Night	2026-02-21 18:30:00	Community Hall	Learn to batch-cook balanced meals with storage t...	/uploads/events/meal_prep.png	1	2026-01-09 05:24:27
	3	Dessert & Plating Masterclass	2026-02-24 16:00:00	Chef Lab	Master dessert plating, textures, and finishing to...	/uploads/events/plating_masterclass.png	1	2026-01-09 05:24:27
	4	Street Food at Home	2026-02-27 17:00:00	FoodFusion Test Kitchen	Recreate popular global street foods using simple ...	/uploads/events/street_food.png	1	2026-01-09 05:24:27
	5	Plant-Based Comfort Cooking	2026-02-26 00:48:14	Green Kitchen Studio	Cook hearty vegan comfort foods with bold flavors ...	/uploads/events/plant_based.png	1	2026-01-09 05:24:27
	6	Sauce & Seasoning Fundamentals	2026-02-02 14:00:00	Chef Lab	Learn how to build deep flavor using sauces, oils,...	/uploads/events/sauce_mastery.png	1	2026-01-09 05:24:27
	7	Asian Noodles Workshop	2026-02-05 16:30:00	FoodFusion Kitchen Studio	Explore handmade and fresh noodles with broths, st...	/uploads/events/asian_noodles.png	1	2026-01-09 05:24:27
	8	Quick Weeknight Dinners	2026-02-08 18:00:00	Community Hall	Fast, reliable dinner ideas for busy schedules wit...	/uploads/events/quick_dinners.png	1	2026-01-09 05:24:27
	9	Baking Basics for Beginners	2026-02-11 13:00:00	Bakery Lab	Learn essential baking techniques including doughs...	/uploads/events/baking_basics.png	1	2026-01-09 05:24:27
	10	Global Rice Dishes	2026-02-14 15:30:00	FoodFusion Kitchen Studio	Cook signature rice dishes from different cuisines...	/uploads/events/rice_dishes.png	1	2026-01-09 05:24:27

Figure 1.56

Login & Registration Process (FoodFusion Project Pattern)

Here is the flow of the authentication system based on the structure of a project with the implementation of some snippets.

- config/conn.php
- config/auth.php
- config/auth_actions.php (Core Authentication Engine)
- header&footer/header.php

Register

- Step 1: User Inputs Registration Details
- Step 2: Form Submission
- Step 3: Input Validation
- Step 4: Email Uniqueness Check
- Step 5: Password Encryption and User Creation
- Step 6: Post-Registration Handling

Login

- Step 1: User Enters Login Credentials
- Step 2: Form Submission
- Step 3: Account Lockout Validation
- Step 4: Password Verification
- Step 5: Failed Login Handling

Logout Process

- Triggered by action=logout
- All session data is unset or destroyed
- The user is redirected to the previous or home page

Auth action .php

```

auth.action.php
1 <?php
2 declare(strict_types=1);
3
4 if (session_status() === PHP_SESSION_NONE) session_start();
5
6 if (!defined('PROJECT_BASE')) define('PROJECT_BASE', '/Food-Fusion-web');
7
8 /* expects $data; if not present, include class */
9 if (!isset($pdo)) {
10     if (!isinstance($pdo, \PDO)) {
11         require_once __DIR__ . '/auth.php';
12     }
13 }
14
15 const MAX_LOGIN_ATTEMPTS = 5;
16 const SESSION_EXPIRE = 3600;
17
18 if (function_exists('auth.csrf.token')) {
19     function auth.csrf.token(): string {
20         if (!empty($_SESSION['csrf_auth'])) {
21             $_SESSION['csrf_auth'] = bin2hex(random_bytes(32));
22         }
23         return (string)$SESSION['csrf_auth'];
24     }
25 }
26
27 if (function_exists('auth.csrf.check')) {
28     function auth.csrf.check(string $token): bool {
29         if ($token !== $_SESSION['csrf_auth']) {
30             if (!empty($_SESSION['csrf_auth'])) {
31                 $_SESSION['csrf_auth'] = null;
32             }
33             exit('CSRF token mismatch (auth).');
34         }
35     }
36 }
37
38 function auth.flash(string|array $data): void {
39     $SESSION['auth_flash'] = $data;
40 }
41
42 function auth.redirect_back(): void {
43     // Go back to same page without re-post (RIG)
44     $path = strtr($_SERVER['REQUEST_URI'], PROJECT_BASE . '/index.php', '#');
45     header('Location: #' . $path);
46     exit();
47 }
48
49 function is_email(string $s): bool {
50     return (bool)filter_var($s, FILTER_VALIDATE_EMAIL);
51 }
52
53 function is_ip(string $ip): bool {
54     return filter_var($ip, FILTER_VALIDATE_IP);
55 }
56
57 function lockout_message(array $user): string {
58     $time = time();
59     $locked_until = $time + $SESSION['lockout_time'];
60     return "Account locked. Try again in about (" . ($locked_until - $time) . ") minute(s).";
61 }
62
63 /* ----- LOGOUT (GET) ----- */
64 if (isset($_GET['logout'])) {
65     $SESSION = [];
66     if (isset($_SESSION['user_id'])) {
67         $pdo->query("DELETE FROM users WHERE user_id = :id", ['id' => $_SESSION['user_id']]);
68         unset($_SESSION['user_id']);
69     }
70     session_destroy();
71     header('Location: ' . strtr($_SERVER['REQUEST_URI'], '#', ''));
72     exit();
73 }
74
75 /* ----- AUTH POSTS ----- */
76 if ($_SERVER['REQUEST_METHOD'] === 'POST') {
77     return; // nothing to do
78 }
79
80 /* Only handle user with form */
81 if ((isset($_POST['login_submit']) || isset($_POST['login_cancel']))) {
82     return;
83 }
84
85 auth.csrf_check();
86
87 /* ----- FORM VALIDATION ----- */
88 if (isset($_POST['login_submit'])) {
89     $frame = trim((string)$_POST['frame'] ?? '');
90     $lname = trim((string)$_POST['lname'] ?? '');
91     $username = trim((string)$_POST['username'] ?? '');
92     $password = trim((string)$_POST['password'] ?? '');
93     $phone = trim((string)$_POST['phone'] ?? '');
94     $role = trim((string)$_POST['role'] ?? '');
95     $email = trim((string)$_POST['email'] ?? '');
96     $country = trim((string)$_POST['country'] ?? '');
97     $chef_name = trim((string)$_POST['chef_name'] ?? '');
98     $phone_error = null;
99 }
100
101 $joinError = null;
102
103 /* ----- FORM VALIDATION ----- */
104 if ($frame === '') || $lname === '' || $username === '' || $email === '' || $password === '' || $role === '') {
105     $joinError = "Please fill in all required fields.";
106 }
107 elseif (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
108     $joinError = "Email address is invalid.";
109 }
110 elseif ($password === '') {
111     $joinError = "Password must be at least 5 characters.";
112 }
113 elseif (!preg_match('/^(?=.*[a-zA-Z])(?=.*[0-9]).{8,}$/', $password)) {
114     $joinError = "Invalid password value.";
115 }
116 elseif (!in_array($role, ['user', 'chef'], true)) {
117     $joinError = "Role must be either 'user' or 'chef'.";
118 }
119 elseif ($role === 'chef' && $chef_name === '') {
120     $joinError = "Chef name is required when role is Chef.";
121 }
122
123 if ($joinError) {
124     auth_flash_set(['open' => 'join', 'joinError' => $joinError]);
125     auth_redirect_back();
126     exit();
127 }
128
129 try {
130     $sql = $pdo->query("SELECT user_id FROM users WHERE email=:email OR username=:username LIMIT 1");
131     $sql->execute(['email' => $email, 'username' => $username]);
132
133     if ($sql->fetch()) {
134         auth_flash_set(['open' => 'join', 'joinError' => "Email or username already exists."]);
135         auth_redirect_back();
136     }
137 }
138
139 $pdo->beginTransaction();
140
141 $hash = password_hash($password, PASSWORD_DEFAULT);
142
143 $insertUser = $pdo->prepare("INSERT INTO users (lname, username, phone, email, password_hash, gender, role, is_active, failed_login_attempts, lockout_until, last_login_at, created_at, updated_at) VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)");
144
145 $insertUser->execute([
146     $lname,
147     $username,
148     $phone,
149     $email,
150     $hash,
151     'M',
152     $role,
153     '1',
154     0,
155     null,
156     null,
157     null
158 ]);
159
160 $insertUser->execute([
161     $lname,
162     $username,
163     $phone,
164     $email,
165     $hash
166 ]);

```

Figure 2.1

```

auth.action.php
1 <?php
2 declare(strict_types=1);
3
4 if (session_status() === PHP_SESSION_NONE) session_start();
5
6 if (!defined('PROJECT_BASE')) define('PROJECT_BASE', '/Food-Fusion-web');
7
8 /* expects $data; if not present, include class */
9 if (!isset($pdo)) {
10     if (!isinstance($pdo, \PDO)) {
11         require_once __DIR__ . '/auth.php';
12     }
13 }
14
15 const MAX_LOGIN_ATTEMPTS = 5;
16 const SESSION_EXPIRE = 3600;
17
18 if (function_exists('auth.csrf.token')) {
19     function auth.csrf.token(): string {
20         if (!empty($_SESSION['csrf_auth'])) {
21             $_SESSION['csrf_auth'] = bin2hex(random_bytes(32));
22         }
23         return (string)$SESSION['csrf_auth'];
24     }
25 }
26
27 if (function_exists('auth.csrf.check')) {
28     function auth.csrf.check(string $token): bool {
29         if ($token !== $_SESSION['csrf_auth']) {
30             if (!empty($_SESSION['csrf_auth'])) {
31                 $_SESSION['csrf_auth'] = null;
32             }
33             exit('CSRF token mismatch (auth).');
34         }
35     }
36 }
37
38 function auth.flash(string|array $data): void {
39     $SESSION['auth_flash'] = $data;
40 }
41
42 function auth.redirect_back(): void {
43     // Go back to same page without re-post (RIG)
44     $path = strtr($_SERVER['REQUEST_URI'], PROJECT_BASE . '/index.php', '#');
45     header('Location: #' . $path);
46     exit();
47 }
48
49 function is_email(string $s): bool {
50     return (bool)filter_var($s, FILTER_VALIDATE_EMAIL);
51 }
52
53 function is_ip(string $ip): bool {
54     return filter_var($ip, FILTER_VALIDATE_IP);
55 }
56
57 function lockout_message(array $user): string {
58     $time = time();
59     $locked_until = $time + $SESSION['lockout_time'];
60     return "Account locked. Try again in about (" . ($locked_until - $time) . ") minute(s).";
61 }
62
63 /* ----- LOGOUT (GET) ----- */
64 if (isset($_GET['logout'])) {
65     $SESSION = [];
66     if (isset($_SESSION['user_id'])) {
67         $pdo->query("DELETE FROM users WHERE user_id = :id", ['id' => $_SESSION['user_id']]);
68         unset($_SESSION['user_id']);
69     }
70     session_destroy();
71     header('Location: ' . strtr($_SERVER['REQUEST_URI'], '#', ''));
72     exit();
73 }
74
75 /* ----- AUTH POSTS ----- */
76 if ($_SERVER['REQUEST_METHOD'] === 'POST') {
77     return; // nothing to do
78 }
79
80 /* Only handle user with form */
81 if ((isset($_POST['login_submit']) || isset($_POST['login_cancel']))) {
82     return;
83 }
84
85 auth.csrf_check();
86
87 /* ----- FORM VALIDATION ----- */
88 if (isset($_POST['login_submit'])) {
89     $frame = trim((string)$_POST['frame'] ?? '');
90     $lname = trim((string)$_POST['lname'] ?? '');
91     $username = trim((string)$_POST['username'] ?? '');
92     $password = trim((string)$_POST['password'] ?? '');
93     $phone = trim((string)$_POST['phone'] ?? '');
94     $role = trim((string)$_POST['role'] ?? '');
95     $email = trim((string)$_POST['email'] ?? '');
96     $country = trim((string)$_POST['country'] ?? '');
97     $chef_name = trim((string)$_POST['chef_name'] ?? '');
98     $phone_error = null;
99 }
100
101 $joinError = null;
102
103 /* ----- FORM VALIDATION ----- */
104 if ($frame === '') || $lname === '' || $username === '' || $email === '' || $password === '' || $role === '' {
105     $joinError = "Please fill in all required fields.";
106 }
107 elseif (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
108     $joinError = "Email address is invalid.";
109 }
110 elseif ($password === '') {
111     $joinError = "Password must be at least 5 characters.";
112 }
113 elseif (!preg_match('/^(?=.*[a-zA-Z])(?=.*[0-9]).{8,}$/', $password)) {
114     $joinError = "Invalid password value.";
115 }
116 elseif (!in_array($role, ['user', 'chef'], true)) {
117     $joinError = "Role must be either 'user' or 'chef'.";
118 }
119 elseif ($role === 'chef' && $chef_name === '') {
120     $joinError = "Chef name is required when role is Chef.";
121 }
122
123 if ($joinError) {
124     auth_flash_set(['open' => 'join', 'joinError' => $joinError]);
125     auth_redirect_back();
126     exit();
127 }
128
129 try {
130     $sql = $pdo->query("SELECT user_id FROM users WHERE email=:email OR username=:username LIMIT 1");
131     $sql->execute(['email' => $email, 'username' => $username]);
132
133     if ($sql->fetch()) {
134         auth_flash_set(['open' => 'join', 'joinError' => "Email or username already exists."]);
135         auth_redirect_back();
136     }
137 }
138
139 $pdo->beginTransaction();
140
141 $hash = password_hash($password, PASSWORD_DEFAULT);
142
143 $insertUser = $pdo->prepare("INSERT INTO users (lname, username, phone, email, password_hash, gender, role, is_active, failed_login_attempts, lockout_until, last_login_at, created_at, updated_at) VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)");
144
145 $insertUser->execute([
146     $lname,
147     $username,
148     $phone,
149     $email,
150     $hash,
151     'M',
152     $role,
153     '1',
154     0,
155     null,
156     null,
157     null
158 ]);
159
160 $insertUser->execute([
161     $lname,
162     $username,
163     $phone,
164     $email,
165     $hash
166 ]);

```

Figure 2.2

```

auth.actions.php
1 <?php
2 declare(strict_types=1);
3
4 if (session_status() === PHP_SESSION_NONE) session_start();
5
6 if (!defined('PROJECT_BASE')) define('PROJECT_BASE', '/Food-Fusion-web');
7
8 /* expects $data; if not present, include class */
9 if (!isset($pdo)) {
10     if (!isinstance($pdo, \PDO)) {
11         require_once __DIR__ . '/auth.php';
12     }
13 }
14
15 const MAX_LOGIN_ATTEMPTS = 5;
16 const SESSION_EXPIRE = 3600;
17
18 if (function_exists('auth.csrf.token')) {
19     function auth.csrf.token(): string {
20         if (!empty($_SESSION['csrf_auth'])) {
21             $_SESSION['csrf_auth'] = bin2hex(random_bytes(32));
22         }
23         return (string)$SESSION['csrf_auth'];
24     }
25 }
26
27 if (function_exists('auth.csrf.check')) {
28     function auth.csrf.check(string $token): bool {
29         if ($token !== $_SESSION['csrf_auth']) {
30             if (!empty($_SESSION['csrf_auth'])) {
31                 $_SESSION['csrf_auth'] = null;
32             }
33             exit('CSRF token mismatch (auth).');
34         }
35     }
36 }
37
38 function auth.flash(string|array $data): void {
39     $SESSION['auth_flash'] = $data;
40 }
41
42 function auth.redirect_back(): void {
43     // Go back to same page without re-post (RIG)
44     $path = strtr($_SERVER['REQUEST_URI'], PROJECT_BASE . '/index.php', '#');
45     header('Location: #' . $path);
46     exit();
47 }
48
49 function is_email(string $s): bool {
50     return (bool)filter_var($s, FILTER_VALIDATE_EMAIL);
51 }
52
53 function is_ip(string $ip): bool {
54     return filter_var($ip, FILTER_VALIDATE_IP);
55 }
56
57 function lockout_message(array $user): string {
58     $time = time();
59     $locked_until = $time + $SESSION['lockout_time'];
60     return "Account locked. Try again in about (" . ($locked_until - $time) . ") minute(s).";
61 }
62
63 /* ----- LOGOUT (GET) ----- */
64 if (isset($_GET['logout'])) {
65     $SESSION = [];
66     if (isset($_SESSION['user_id'])) {
67         $pdo->query("DELETE FROM users WHERE user_id = :id", ['id' => $_SESSION['user_id']]);
68         unset($_SESSION['user_id']);
69     }
70     session_destroy();
71     header('Location: ' . strtr($_SERVER['REQUEST_URI'], '#', ''));
72     exit();
73 }
74
75 /* ----- AUTH POSTS ----- */
76 if ($_SERVER['REQUEST_METHOD'] === 'POST') {
77     return; // nothing to do
78 }
79
80 /* Only handle user with form */
81 if ((isset($_POST['login_submit']) || isset($_POST['login_cancel']))) {
82     return;
83 }
84
85 auth.csrf_check();
86
87 /* ----- FORM VALIDATION ----- */
88 if (isset($_POST['login_submit'])) {
89     $frame = trim((string)$_POST['frame'] ?? '');
90     $lname = trim((string)$_POST['lname'] ?? '');
91     $username = trim((string)$_POST['username'] ?? '');
92     $password = trim((string)$_POST['password'] ?? '');
93     $phone = trim((string)$_POST['phone'] ?? '');
94     $role = trim((string)$_POST['role'] ?? '');
95     $email = trim((string)$_POST['email'] ?? '');
96     $country = trim((string)$_POST['country'] ?? '');
97     $chef_name = trim((string)$_POST['chef_name'] ?? '');
98     $phone_error = null;
99 }
100
101 $joinError = null;
102
103 /* ----- FORM VALIDATION ----- */
104 if ($frame === '') || $lname === '' || $username === '' || $email === '' || $password === '' || $role === '' {
105     $joinError = "Please fill in all required fields.";
106 }
107 elseif (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
108     $joinError = "Email address is invalid.";
109 }
110 elseif ($password === '') {
111     $joinError = "Password must be at least 5 characters.";
112 }
113 elseif (!preg_match('/^(?=.*[a-zA-Z])(?=.*[0-9]).{8,}$/', $password)) {
114     $joinError = "Invalid password value.";
115 }
116 elseif (!in_array($role, ['user', 'chef'], true)) {
117     $joinError = "Role must be either 'user' or 'chef'.";
118 }
119 elseif ($role === 'chef' && $chef_name === '') {
120     $joinError = "Chef name is required when role is Chef.";
121 }
122
123 if ($joinError) {
124     auth_flash_set(['open' => 'join', 'joinError' => $joinError]);
125     auth_redirect_back();
126     exit();
127 }
128
129 try {
130     $sql = $pdo->query("SELECT user_id FROM users WHERE email=:email OR username=:username LIMIT 1");
131     $sql->execute(['email' => $email, 'username' => $username]);
132
133     if ($sql->fetch()) {
134         auth_flash_set(['open' => 'join', 'joinError' => "Email or username already exists."]);
135         auth_redirect_back();
136     }
137 }
138
139 $pdo->beginTransaction();
140
141 $hash = password_hash($password, PASSWORD_DEFAULT);
142
143 $insertUser = $pdo->prepare("INSERT INTO users (lname, username, phone, email, password_hash, gender, role, is_active, failed_login_attempts, lockout_until, last_login_at, created_at, updated_at) VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)");
144
145 $insertUser->execute([
146     $lname,
147     $username,
148     $phone,
149     $email,
150     $hash,
151     'M',
152     $role,
153     '1',
154     0,
155     null,
156     null,
157     null
158 ]);
159
160 $insertUser->execute([
161     $lname,
162     $username,
163     $phone,
164     $email,
165     $hash
166 ]);

```

Figure 2.3

```

C:\xampp\htdocs\Food-Fusion-web\config\auth_actions.php (Food-Fusion-web) - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
+ \Food-Fusion-web
    + \admin
        + config
            + \admin_auth.php
        + auth.php
        + auth_actions.php
    + \db_setup
        + \header.php
        + footer.php
    + \photo
    + \public
    + \uploads
    \index.php
auth_actions.php
114     $userManager->execute([
115         ':name' => $fname,
116         ':lname' => $lname,
117         ':username' => $username,
118         ':phone' => ($phone === '' ? null : $phone),
119         ':hash' => $hash,
120         ':gender' => ($gender === '' ? null : $gender),
121         ':role' => $role,
122     ]);
123
124     $userId = ($pdo->lastInsertId());
125
126     if ($role === 'chef') {
127         if ($chef_name === '') $chef_name = trim($fname . ' ' . $lname);
128
129         $insChef = $pdo->prepare('
130             INSERT INTO chef_profiles (user_id, chef_name, country)
131             VALUES (:user_id, :chef_name, :country)
132         ');
133
134         $insChef->execute([
135             ':user_id' => $userId,
136             ':chef_name' => $chef_name,
137             ':country' => ($country === '' ? null : $country),
138         ]);
139
140         $pdo->commit();
141
142         set_user_session([
143             'user_id' => $userId,
144             'fname' => $fname,
145             'lname' => $lname,
146             'username' => $username,
147             'role' => $role,
148         ]);
149
150         auth_flash_set(['open' => null, 'loginSuccess' => "Account created! You are now logged in."]);
151         auth_redirect_back();
152     }
153
154     /* ----- LOGIN ----- */
155     if (isset($_POST['login_submit'])) {
156         $identifier = trim((($_POST['email']) || ($_POST['login_identifier']))) ;
157         $pass = trim(($_POST['login_password']));
158
159         /*byEmail = is_email($identifier);*
160
161         $stmt = $pdo->prepare('
162             SELECT user_id, fname, lname, username, role, password_hash,
163             failed_login_attempts, lockout_until, is_active
164             FROM users
165             WHERE ' . ($byEmail ? "email = :ident" : "username = :ident") . '
166             LIMIT 1
167         ');
168         $stmt->execute([':ident' => $identifier]);
169         $user = $stmt->fetch(PDO::FETCH_ASSOC);
170
171         $genericFail = "Invalid credentials.";
172
173         if (!($user)) {
174             auth_flash_set(['open' => 'login', 'loginError' => $genericFail]);
175             auth_redirect_back();
176         }
177
178         if ((int)$user['is_active'] != 1) {
179             auth_flash_set(['open' => 'login', 'loginError' => "This account is disabled."]);
180             auth_redirect_back();
181         }
182
183         // reset after lockout expired
184         if (!empty($user['lockout_until']) && strtotime((string)$user['lockout_until']) <= time()) {
185             $pdo->prepare("UPDATE users SET failed_login_attempts=0, lockout_until=NULL WHERE user_id=:id");
186             $stmt->execute([':id' => (int)$user['user_id']]);
187             $user['failed_login_attempts'] = 0;
188             $user['lockout_until'] = null;
189         }
190
191         $stmt = $pdo->prepare("SELECT user_id, fname, lname, username, role, password_hash, failed_login_attempts, lockout_until, is_active
192             FROM users
193             WHERE ' . ($byEmail ? "email = :ident" : "username = :ident") . '
194             LIMIT 1
195         ");
196         $stmt->execute([':ident' => $identifier]);
197         $user = $stmt->fetch(PDO::FETCH_ASSOC);
198
199         if ($password_verify($pass, (string)$user['password_hash'])) {
200             $attempts = (int)$user['failed_login_attempts'] + 1;
201             $lockUntil = date("Y-m-d H:i:s", time() + (LOCKOUT_MINUTES * 60));
202             $stmt = $pdo->prepare("UPDATE users SET failed_login_attempts=:attempts, lockout_until=:lockUntil WHERE user_id=:id");
203             $stmt->execute([':attempts' => $attempts, ':lockUntil' => $lockUntil, ':id' => (int)$user['user_id']]);
204
205             auth_flash_set(['open' => 'login', 'loginError' => $lockUntil ? "Too many attempts. Locked for " . LOCKOUT_MINUTES . " minutes." : $genericFail]);
206             auth_redirect_back();
207         }
208
209         // success
210         $stmt = $pdo->prepare("UPDATE users SET failed_login_attempts=0, lockout_until=NULL, last_login_at=NOW() WHERE user_id=:id");
211         $stmt->execute([':id' => (int)$user['user_id']]);
212
213         set_user_session($user);
214
215         auth_flash_set(['open' => null, 'loginSuccess' => "Logged in successfully."]);
216         auth_redirect_back();
217     }
218
219 }

```

Figure 2.4

```

C:\xampp\htdocs\Food-Fusion-web\config\auth_actions.php (Food-Fusion-web) - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
+ \Food-Fusion-web
    + \admin
        + config
            + \admin_auth.php
        + auth.php
        + auth_actions.php
    + \db_setup
        + \header.php
        + footer.php
    + \photo
    + \public
    + \uploads
    \index.php
auth_actions.php
209     if ($identifier === '' || $pass == '') {
210         auth_flash_set(['open' => 'login', 'loginError' => "Please enter email/username and password."]);
211         auth_redirect_back();
212     }
213
214     if (!is_email($identifier)) {
215         auth_flash_set(['open' => 'login', 'loginError' => "Enter a valid email or username (3-30 chars)."]);
216         auth_redirect_back();
217     }
218
219     /* ----- LOGIN ----- */
220     if (isset($_POST['login_submit'])) {
221         $stmt = $pdo->prepare('
222             SELECT user_id, fname, lname, username, role, password_hash,
223             failed_login_attempts, lockout_until, is_active
224             FROM users
225             WHERE ' . ($byEmail ? "email = :ident" : "username = :ident") . '
226             LIMIT 1
227         ');
228         $stmt->execute([':ident' => $identifier]);
229         $user = $stmt->fetch(PDO::FETCH_ASSOC);
230
231         $genericFail = "Invalid credentials.";
232
233         if (!($user)) {
234             auth_flash_set(['open' => 'login', 'loginError' => $genericFail]);
235             auth_redirect_back();
236         }
237
238         if ((int)$user['is_active'] != 1) {
239             auth_flash_set(['open' => 'login', 'loginError' => "This account is disabled."]);
240             auth_redirect_back();
241         }
242
243         if ((int)$user['failed_login_attempts'] > MAX_LOGIN_ATTEMPTS) {
244             $lockUntil = date("Y-m-d H:i:s", time() + (LOCKOUT_MINUTES * 60));
245             $stmt = $pdo->prepare("UPDATE users SET failed_login_attempts=0, lockout_until=:lockUntil WHERE user_id=:id");
246             $stmt->execute([':lockUntil' => $lockUntil, ':id' => (int)$user['user_id']]);
247             $user['failed_login_attempts'] = 0;
248             $user['lockout_until'] = null;
249
250             auth_flash_set(['open' => 'login', 'loginError' => $lockUntil ? "Too many attempts. Locked for " . LOCKOUT_MINUTES . " minutes." : $genericFail]);
251             auth_redirect_back();
252         }
253
254         $stmt = $pdo->prepare("SELECT user_id, fname, lname, username, role, password_hash, failed_login_attempts, lockout_until, is_active
255             FROM users
256             WHERE ' . ($byEmail ? "email = :ident" : "username = :ident") . '
257             LIMIT 1
258         ");
259         $stmt->execute([':ident' => $identifier]);
260         $user = $stmt->fetch(PDO::FETCH_ASSOC);
261
262         if ($password_verify($pass, (string)$user['password_hash'])) {
263             $attempts = (int)$user['failed_login_attempts'] + 1;
264             $lockUntil = date("Y-m-d H:i:s", time() + (LOCKOUT_MINUTES * 60));
265             $stmt = $pdo->prepare("UPDATE users SET failed_login_attempts=:attempts, lockout_until=:lockUntil WHERE user_id=:id");
266             $stmt->execute([':attempts' => $attempts, ':lockUntil' => $lockUntil, ':id' => (int)$user['user_id']]);
267
268             set_user_session($user);
269
270             auth_flash_set(['open' => null, 'loginSuccess' => "Logged in successfully."]);
271             auth_redirect_back();
272         }
273
274     }
275
276 }

```

Figure 2.5

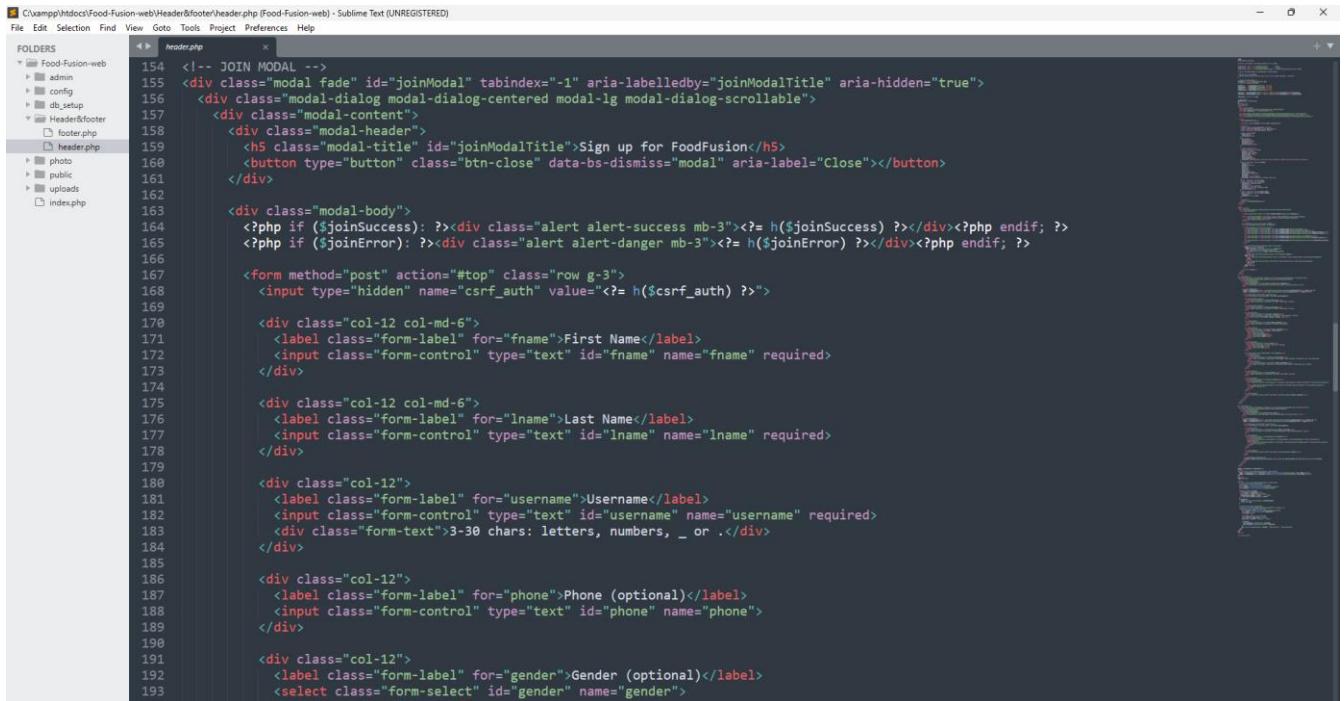
```

C:\xampp\htdocs\Food-Fusion-web\config\auth_actions.php (Food-Fusion-web) - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
+ \Food-Fusion-web
    + \admin
        + config
            + \admin_auth.php
        + auth.php
        + auth_actions.php
    + \db_setup
        + \header.php
        + footer.php
    + \photo
    + \public
    + \uploads
    \index.php
auth_actions.php
242     if (is_locked_out($user)) {
243         auth_flash_set(['open' => 'login', 'loginError' => lockout_message($user)]);
244         auth_redirect_back();
245     }
246
247     if (!password_verify($pass, (string)$user['password_hash'])) {
248         $attempts = (int)$user['failed_login_attempts'] + 1;
249         $lockUntil = null;
250
251         if ($attempts >= MAX_LOGIN_ATTEMPTS) {
252             $lockUntil = date("Y-m-d H:i:s", time() + (LOCKOUT_MINUTES * 60));
253             $attempts = MAX_LOGIN_ATTEMPTS;
254         }
255
256         $stmt = $pdo->prepare("UPDATE users SET failed_login_attempts=:attempts, lockout_until=:lockUntil WHERE user_id=:id");
257         $stmt->execute([':attempts' => $attempts, ':lockUntil' => $lockUntil, ':id' => (int)$user['user_id']]);
258
259         auth_flash_set(['open' => 'login', 'loginError' => $lockUntil ? "Too many attempts. Locked for " . LOCKOUT_MINUTES . " minutes." : $genericFail]);
260         auth_redirect_back();
261     }
262
263     // success
264     $stmt = $pdo->prepare("UPDATE users SET failed_login_attempts=0, lockout_until=NULL, last_login_at=NOW() WHERE user_id=:id");
265     $stmt->execute([':id' => (int)$user['user_id']]);
266
267     set_user_session($user);
268
269     auth_flash_set(['open' => null, 'loginSuccess' => "Logged in successfully."]);
270     auth_redirect_back();
271
272 }

```

Figure 2.6

Register



```
<!-- JOIN MODAL -->
<div class="modal fade" id="joinModal" tabindex="-1" aria-labelledby="joinModalTitle" aria-hidden="true">
  <div class="modal-dialog modal-dialog-centered modal-lg modal-dialog-scrollable">
    <div class="modal-content">
      <div class="modal-header">
        <h5 class="modal-title" id="joinModalTitle">Sign up for FoodFusion</h5>
        <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
      </div>
      <div class="modal-body">
        <?php if ($joinSuccess): ?><div class="alert alert-success mb-3"><?= h($joinSuccess) ?></div><?php endif; ?>
        <?php if ($joinError): ?><div class="alert alert-danger mb-3"><?= h($joinError) ?></div><?php endif; ?>

        <form method="post" action="#top" class="row g-3">
          <input type="hidden" name="csrf_auth" value=<?= h($csrf_auth) ?>">

          <div class="col-12 col-md-6">
            <label class="form-label" for="fname">First Name</label>
            <input class="form-control" type="text" id="fname" name="fname" required>
          </div>

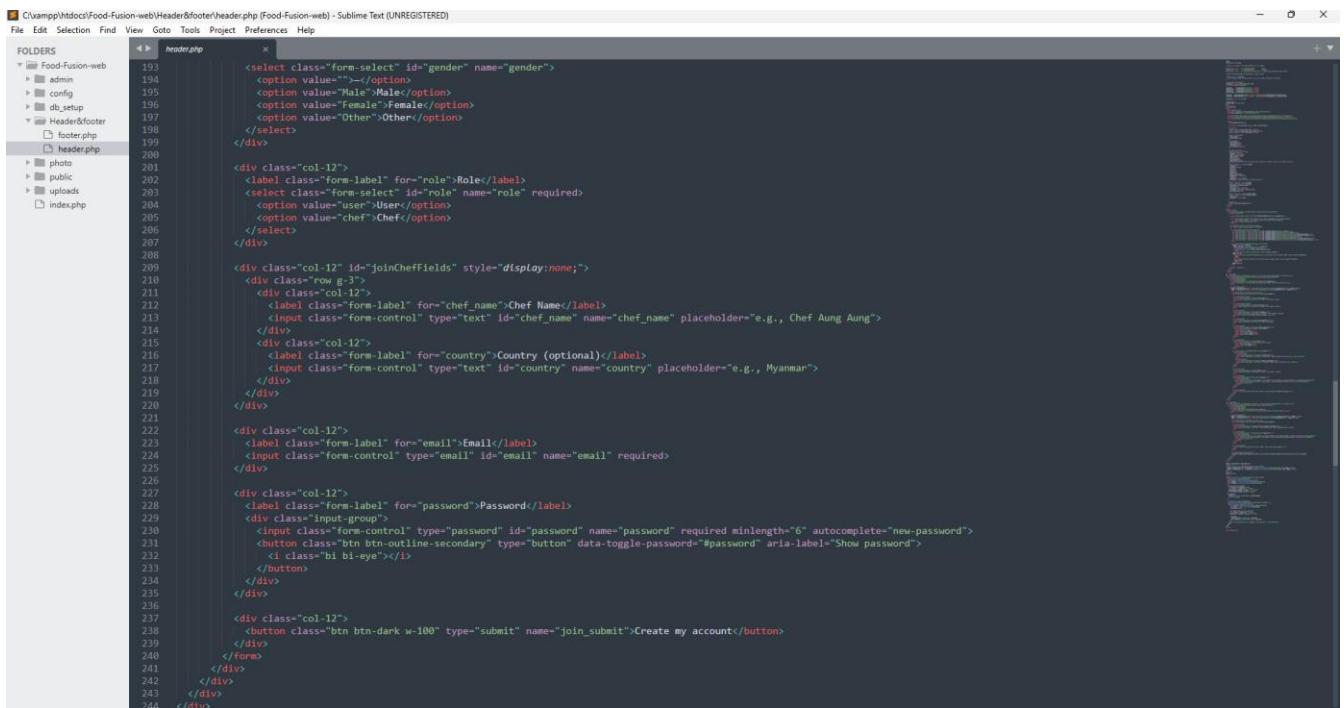
          <div class="col-12 col-md-6">
            <label class="form-label" for="lname">Last Name</label>
            <input class="form-control" type="text" id="lname" name="lname" required>
          </div>

          <div class="col-12">
            <label class="form-label" for="username">Username</label>
            <input class="form-control" type="text" id="username" name="username" required>
            <div class="form-text">3-30 chars: letters, numbers, _ or .</div>
          </div>

          <div class="col-12">
            <label class="form-label" for="phone">Phone (optional)</label>
            <input class="form-control" type="text" id="phone" name="phone">
          </div>

          <div class="col-12">
            <label class="form-label" for="gender">Gender (optional)</label>
            <select class="form-select" id="gender" name="gender">
              <option value="">>
```

Figure 2.7



```
<select class="form-select" id="gender" name="gender">
  <option value="">
  <option value="Male">Male</option>
  <option value="Female">Female</option>
  <option value="Other">Other</option>
</select>
</div>

<div class="col-12">
  <label class="form-label" for="role">Role</label>
  <select class="form-select" id="role" name="role" required>
    <option value="user">User</option>
    <option value="chef">Chef</option>
  </select>
</div>

<div class="col-12" id="joinChefFields" style="display:none;">
  <div class="row g-3">
    <div class="col-12">
      <label class="form-label" for="chef_name">Chef Name</label>
      <input class="form-control" type="text" id="chef_name" name="chef_name" placeholder="e.g., Chef Aung Aung">
    </div>
    <div class="col-12">
      <label class="form-label" for="country">Country (optional)</label>
      <input class="form-control" type="text" id="country" name="country" placeholder="e.g., Myanmar">
    </div>
  </div>
</div>

<div class="col-12">
  <label class="form-label" for="email">Email</label>
  <input class="form-control" type="email" id="email" name="email" required>
</div>

<div class="col-12">
  <label class="form-label" for="password">Password</label>
  <div class="input-group">
    <input class="form-control" type="password" id="password" name="password" required minlength="6" autocomplete="new-password">
    <button class="btn btn-outline-secondary" type="button" data-toggle="password" data-target="#password" aria-label="Show password">
      <i class="bi bi-eye"></i>
    </button>
  </div>
</div>

<div class="col-12">
  <button class="btn btn-dark w-100" type="submit" name="join_submit">Create my account</button>
</div>
</form>
</div>
</div>
</div>
```

Figure 2.8

User register

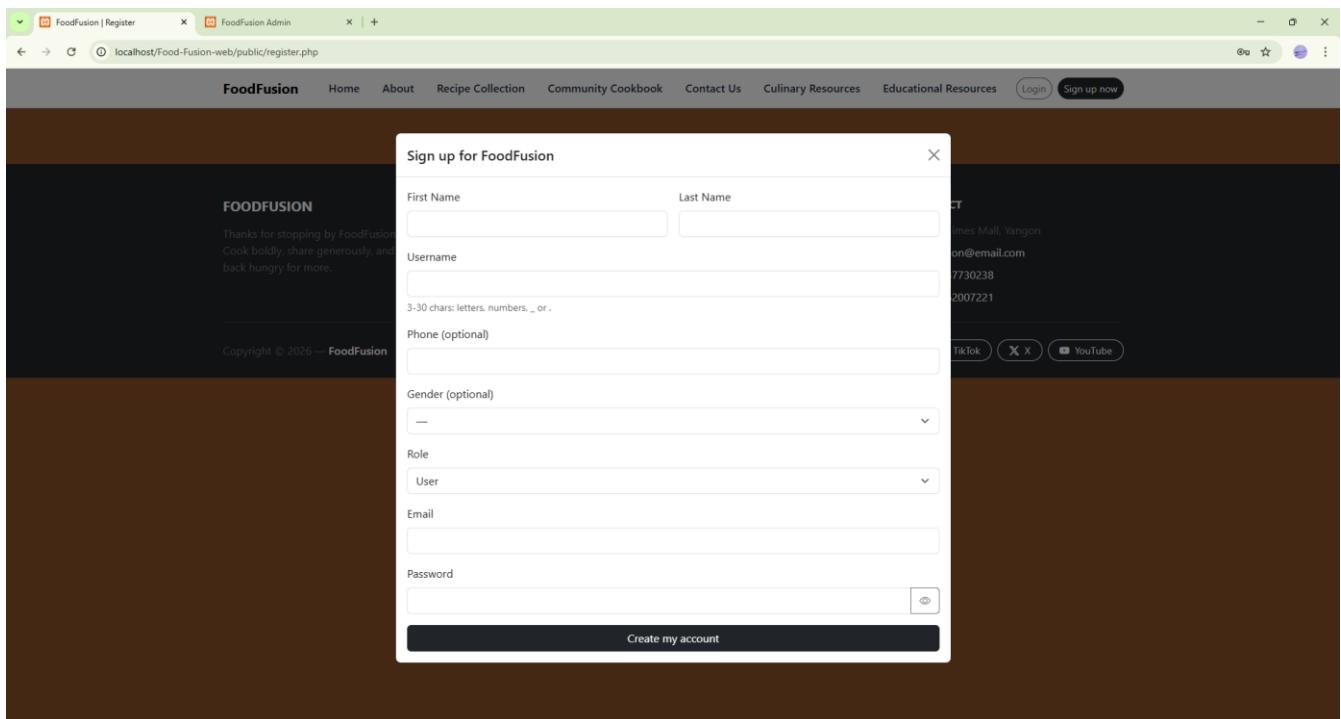


Figure 2.9

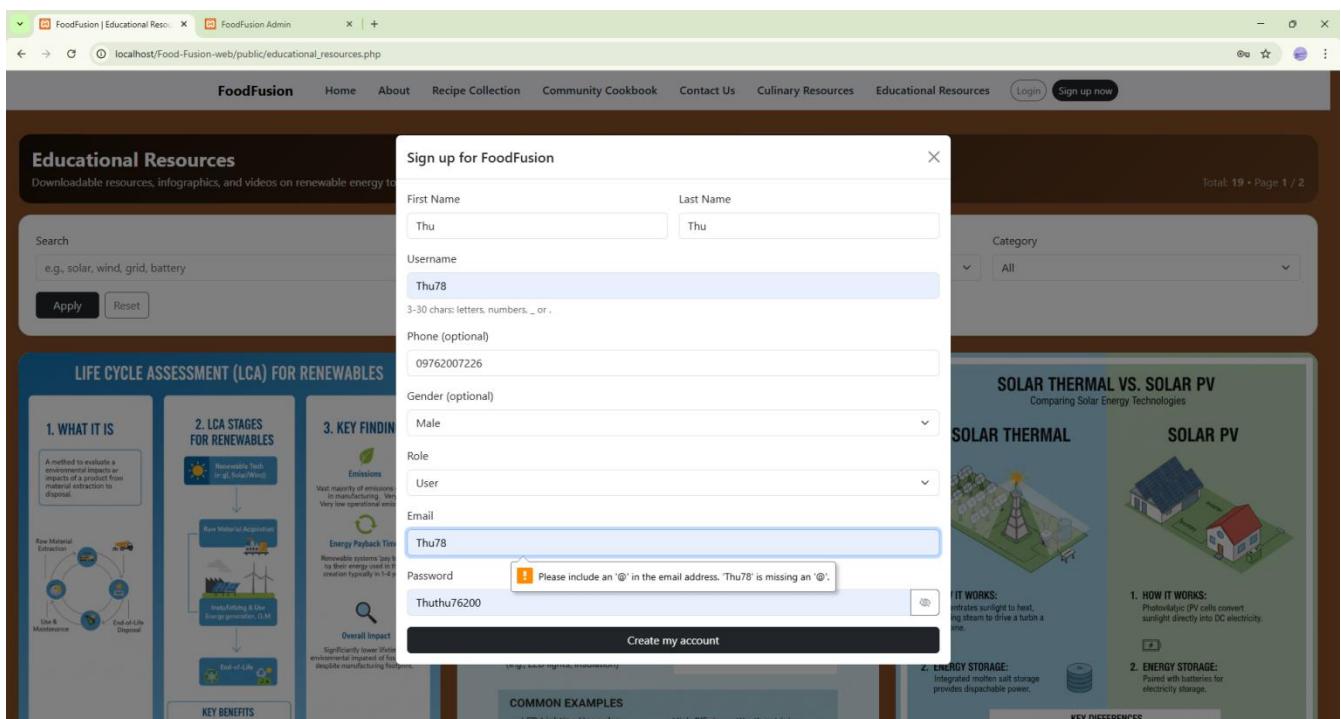


Figure 2.10

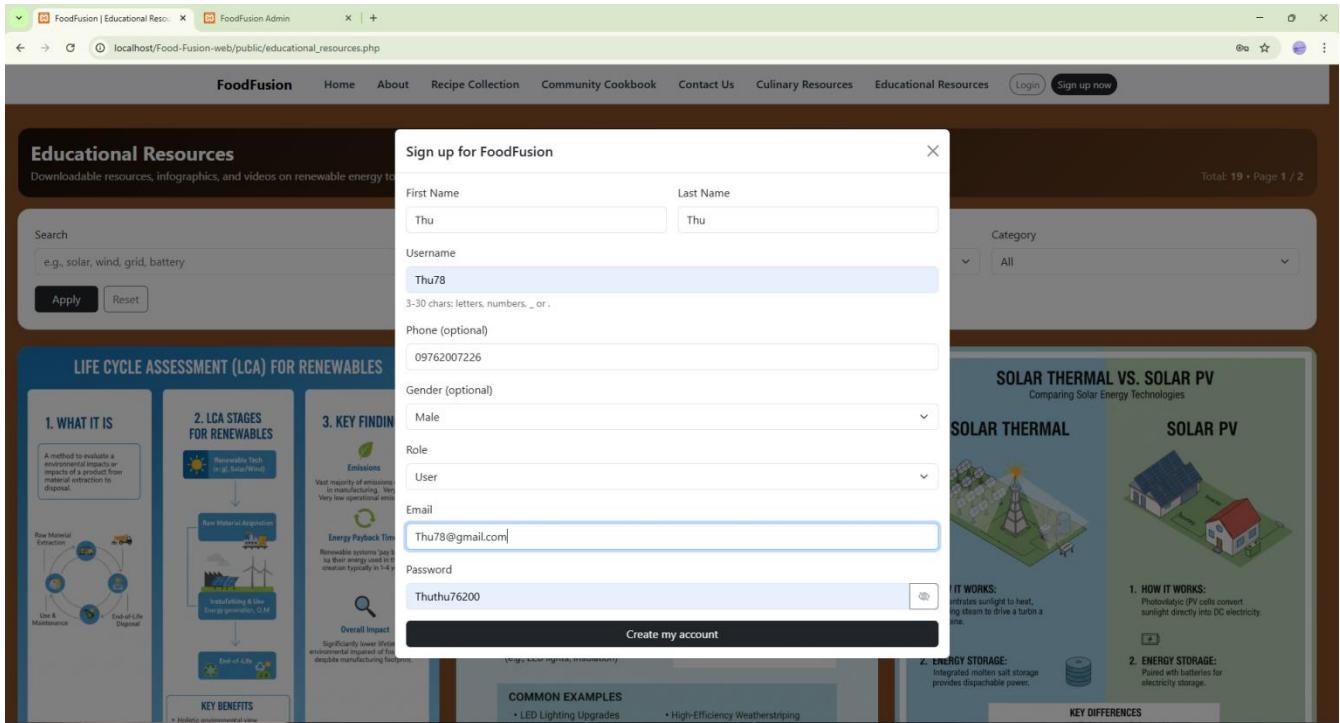


Figure 2.11

User login



Figure 2.12

Password Encryption

<input type="checkbox"/>				ID	Name	Phone	Email	Hashed Password	Gender	Role	Created At	Updated At
				9	Thu	09762007226	Thu78	\$2y\$10\$nPc3a.FeZPjd72CG9/FdW CdYkcTjRzFWKCjtVaSdIC...	Male	user	1 NULL	0 NUI 2026-01-11 03:51:54

Figure 2.13

Chef Register

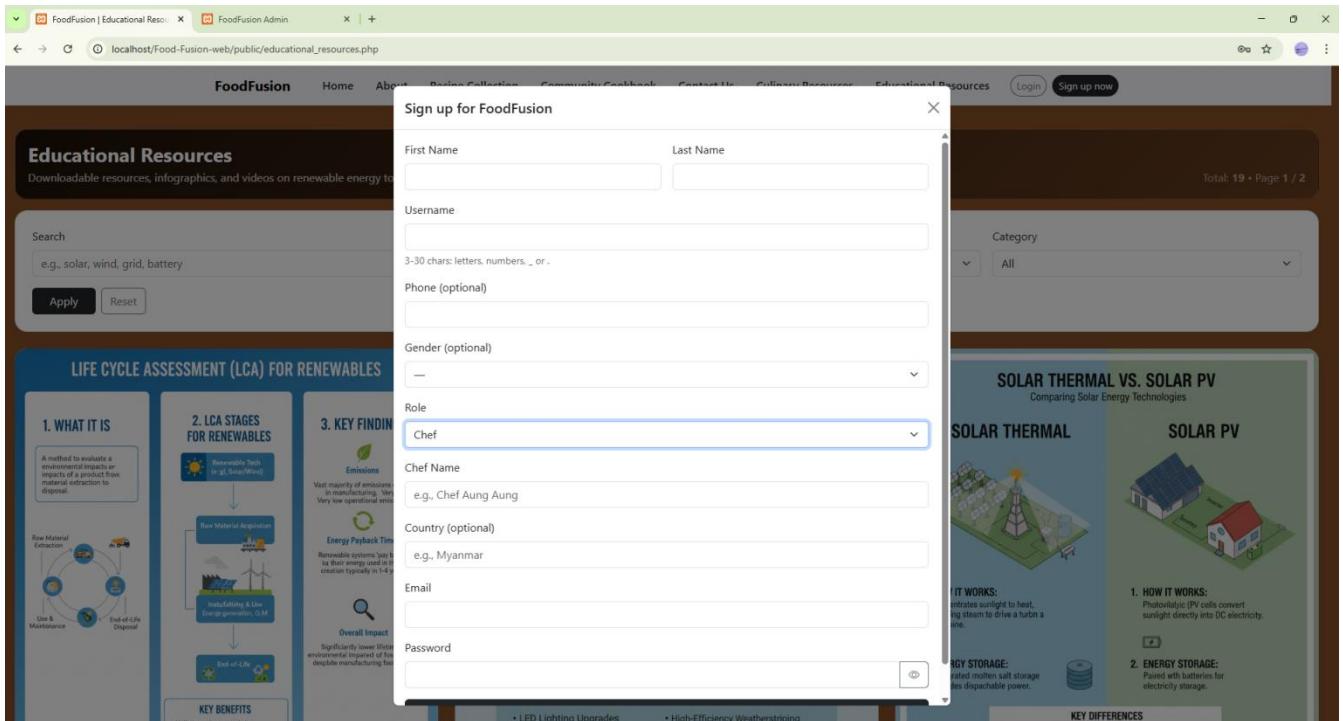


Figure 2.14

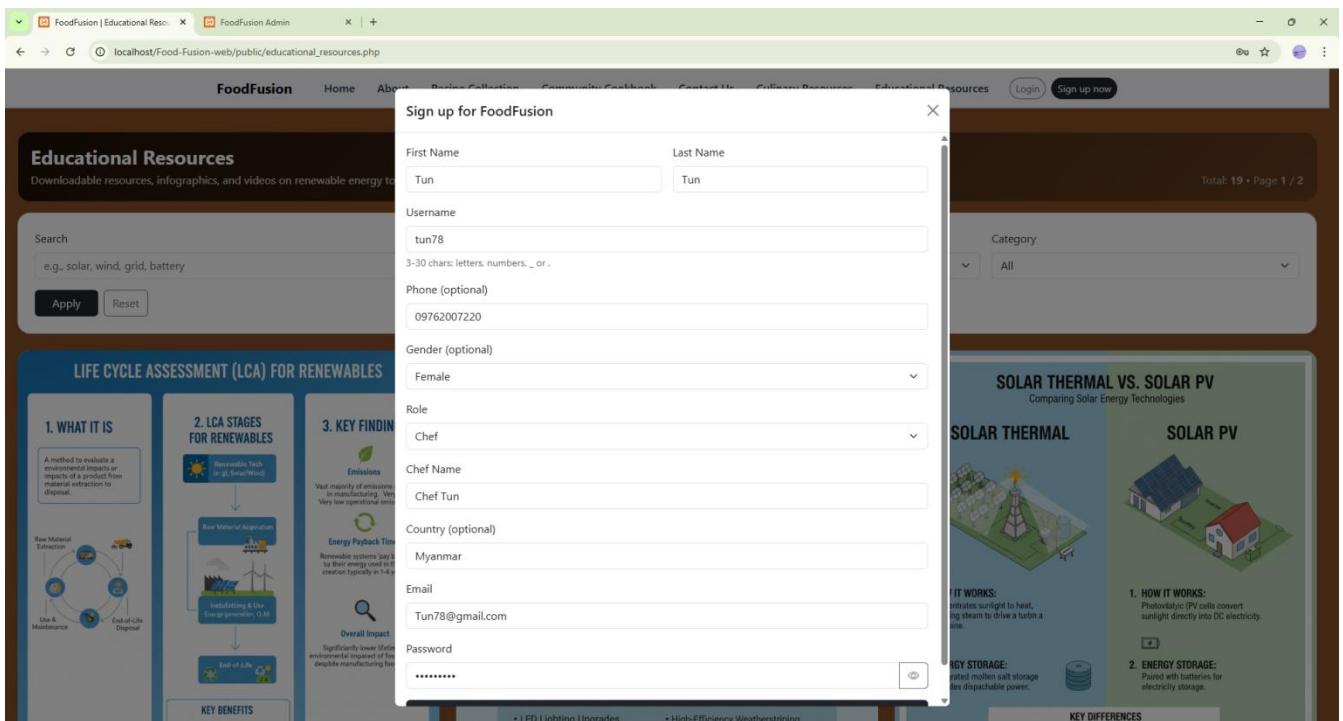


Figure 2.15

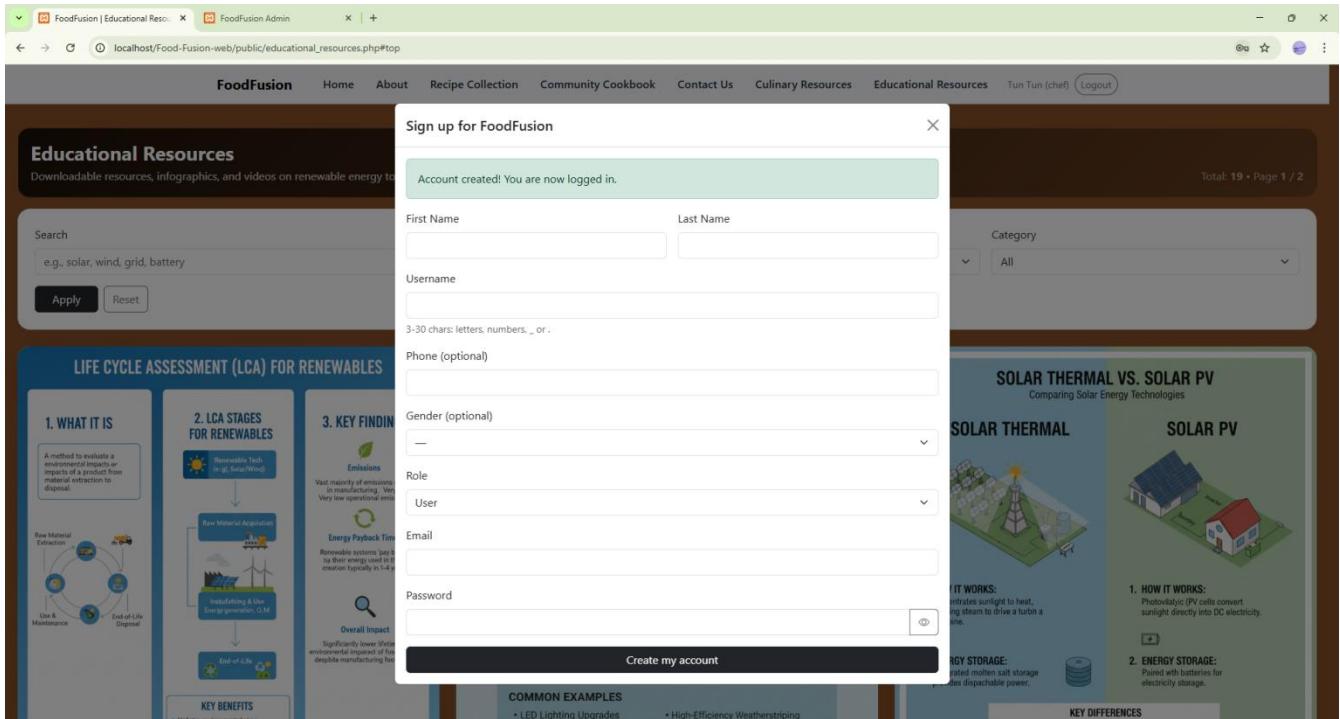


Figure 2.16

Chef login

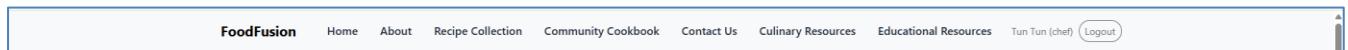


Figure 2.17

Password Encryption on user table

<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	10	Tun	Tun	09762007220	tun78	Tun78@gmail.com	\$2y\$10\$GmNVljQ8zhz0ZikcYkxE:pN1GjdFwgysgf4F6.HY9...	Female	chef	1	NULL	0	NUL	2026-01-11 03:57:20	2026-01-11 03:57:20
--------------------------	-------------------------------	-------------------------------	---------------------------------	----	-----	-----	-------------	-------	-----------------	--	--------	------	---	------	---	-----	---------------------	---------------------

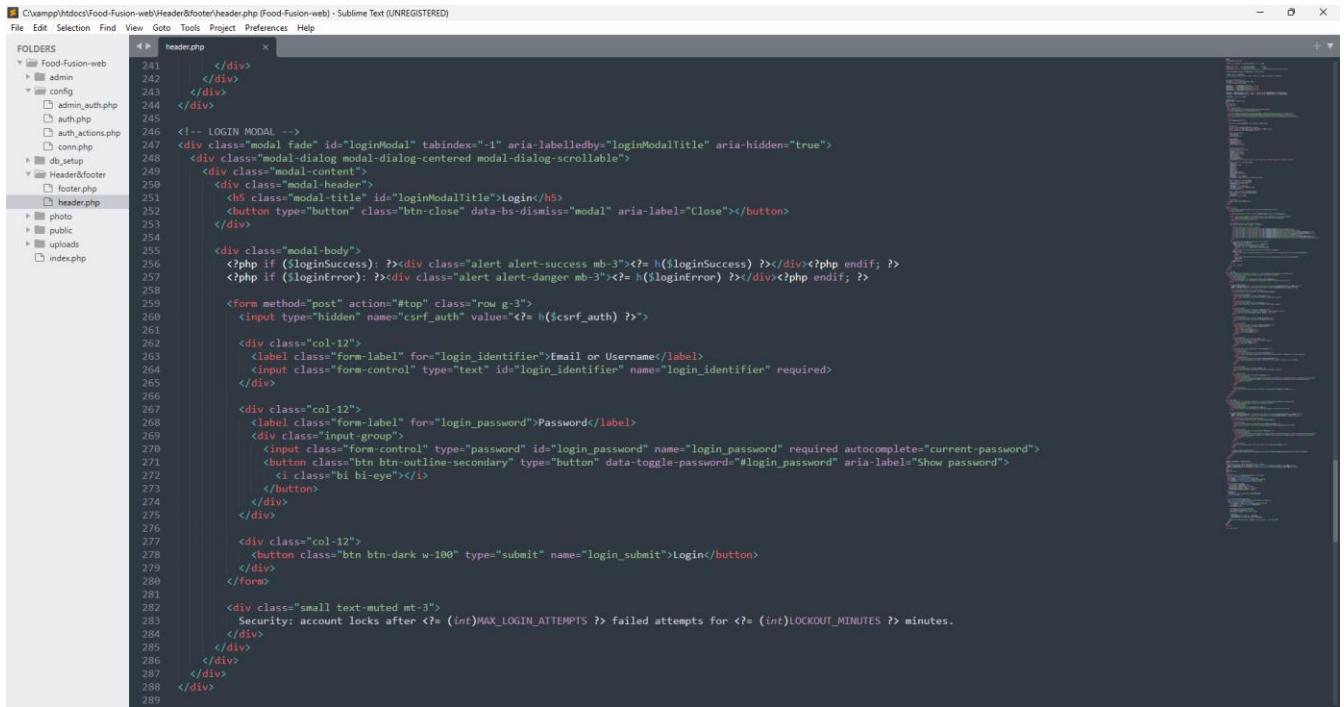
Figure 2.18

Chef table

<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	5	10	Chef Tun	Myanmar	2026-01-11 03:57:20	2026-01-11 03:57:20
--------------------------	-------------------------------	-------------------------------	---------------------------------	---	----	----------	---------	---------------------	---------------------

Figure 2.19

Login



The screenshot shows the Sublime Text editor with the file 'header.php' open. The code is a PHP script for a modal login form. It includes conditional logic for success and error messages, form fields for email/username and password, and a button for logging in. A note at the bottom indicates account locks after 3 failed attempts.

```
File Edit Selection Find Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
  admin
  config
    admin_auth.php
    auth.php
    auth_actions.php
    conn.php
  db_setup
  HeaderFooter
    footer.php
    header.php
  photo
  public
  uploads
  index.php

header.php
241      </div>
242      </div>
243    </div>
244  <!-- LOGIN MODAL -->
245  <div class="modal fade" id="loginModal" tabindex="-1" aria-labelledby="loginModalTitle" aria-hidden="true">
246    <div class="modal-dialog modal-dialog-centered modal-dialog-scrollable">
247      <div class="modal-content">
248        <div class="modal-header">
249          <h5 class="modal-title" id="loginModalTitle">Login</h5>
250          <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
251        </div>
252        <div class="modal-body">
253          <?php if ($loginSuccess): ?><div class="alert alert-success mb-3"><?= h($loginSuccess) ?></div><?php endif; ?>
254          <?php if ($loginError): ?><div class="alert alert-danger mb-3"><?= h($loginError) ?></div><?php endif; ?>
255
256          <form method="post" action="#top" class="row g-3">
257            <input type="hidden" name="csrf_auth" value=<?= h($csrf_auth) ?>">
258
259            <div class="col-12">
260              <label class="form-label" for="login_identifier">Email or Username</label>
261              <input class="form-control" type="text" id="login_identifier" name="login_identifier" required>
262            </div>
263
264            <div class="col-12">
265              <label class="form-label" for="login_password">Password</label>
266              <div class="input-group">
267                <input class="form-control" type="password" id="login_password" name="login_password" required autocomplete="current-password">
268                <button class="btn btn-outline-secondary" type="button" data-toggle="password" id="login_password" aria-label="Show password">
269                  <i class="bi bi-eye"></i>
270                </button>
271              </div>
272            </div>
273
274            <div class="col-12">
275              <button class="btn btn-dark w-100" type="submit" name="login_submit">Login</button>
276            </div>
277
278            <div class="small text-muted mt-3">
279              Security: account locks after <?= (int)MAX_LOGIN_ATTEMPTS ?> failed attempts for <?= (int)LOCKOUT_MINUTES ?> minutes.
280            </div>
281
282          </div>
283        </div>
284      </div>
285    </div>
286  </div>
287</div>
288</div>
289
```

Figure 2.20

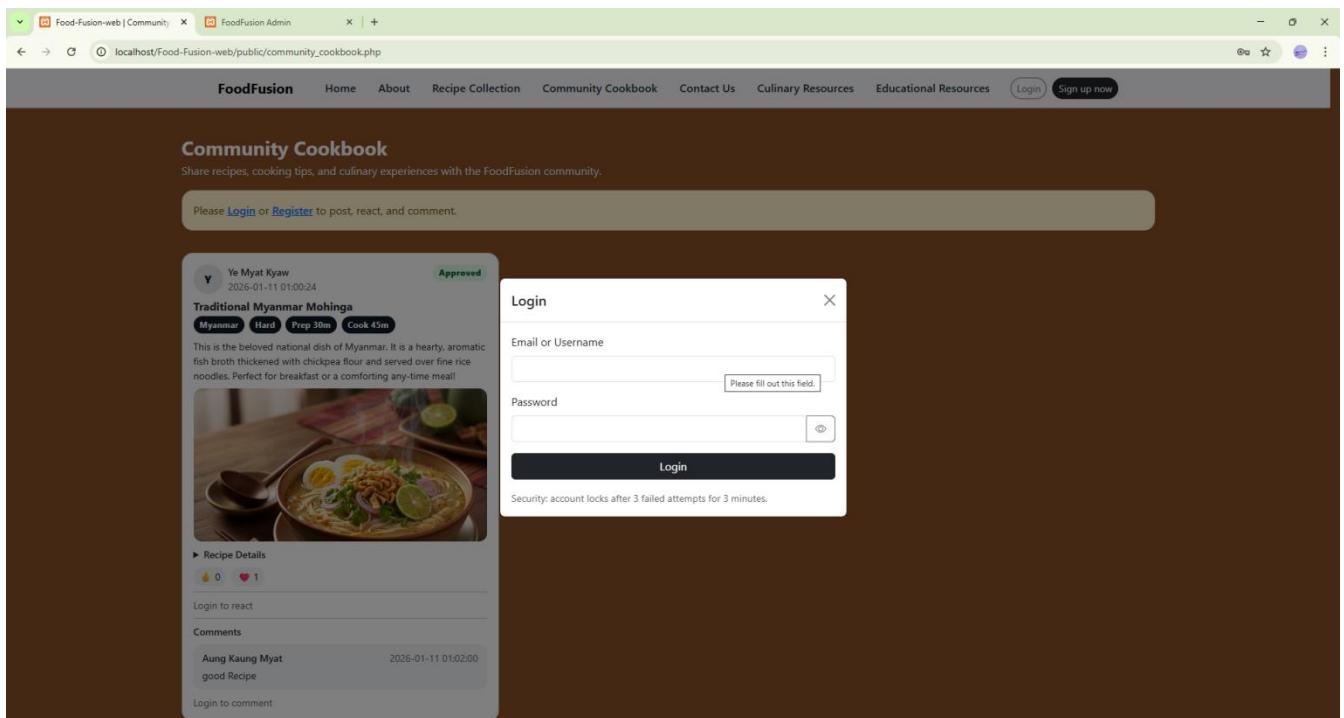


Figure 2.21

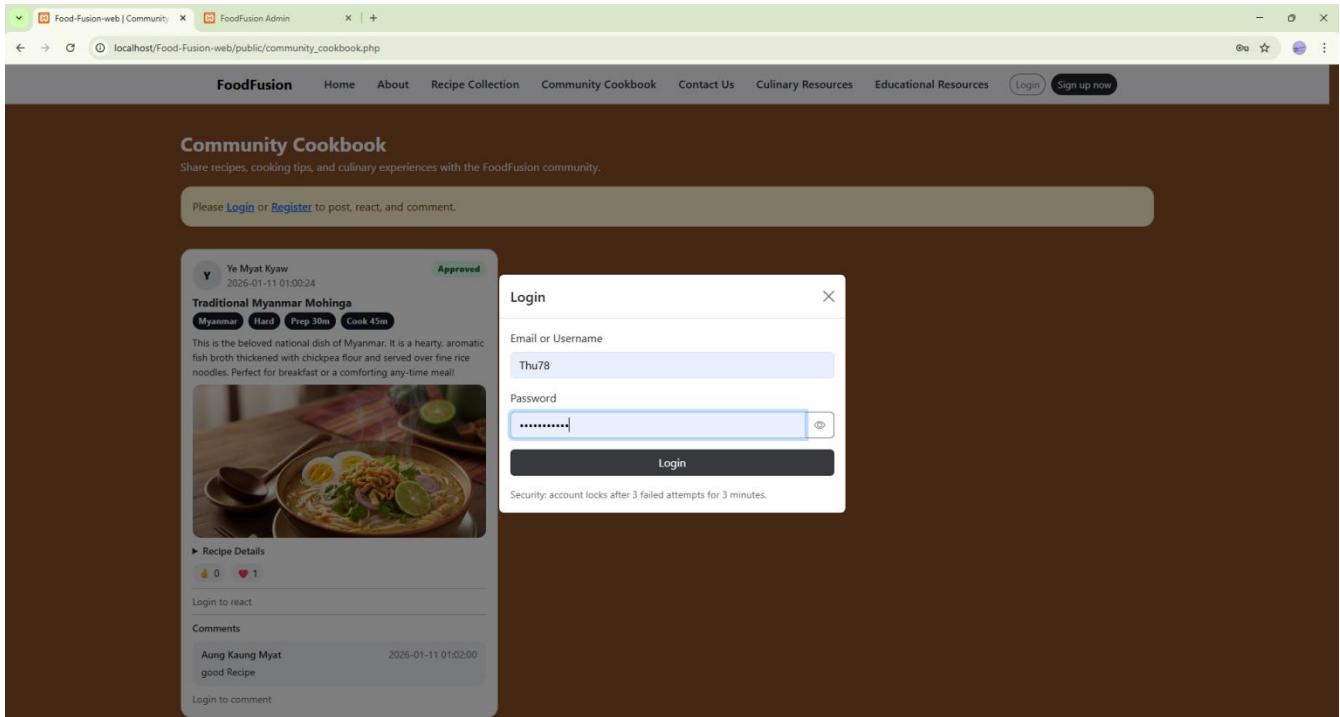


Figure 2.22

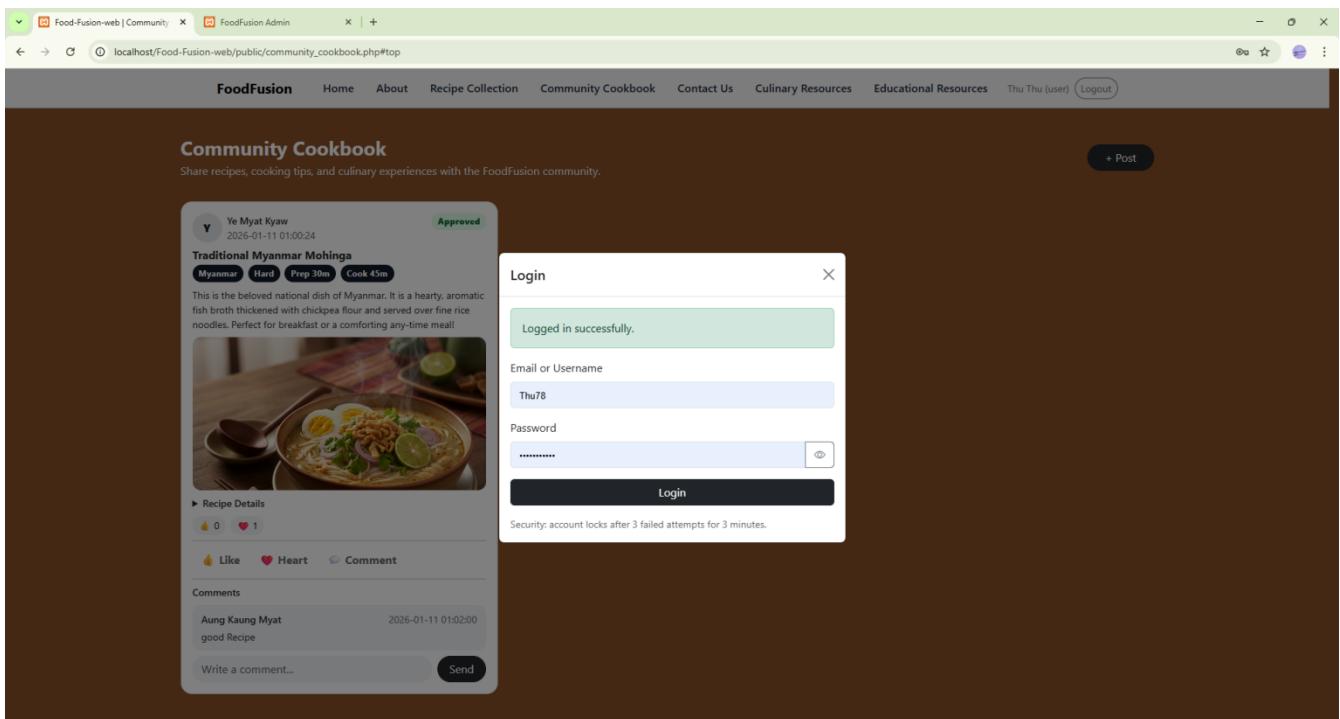


Figure 2.23

Login access



Figure 2.24

Login fails

account lockout

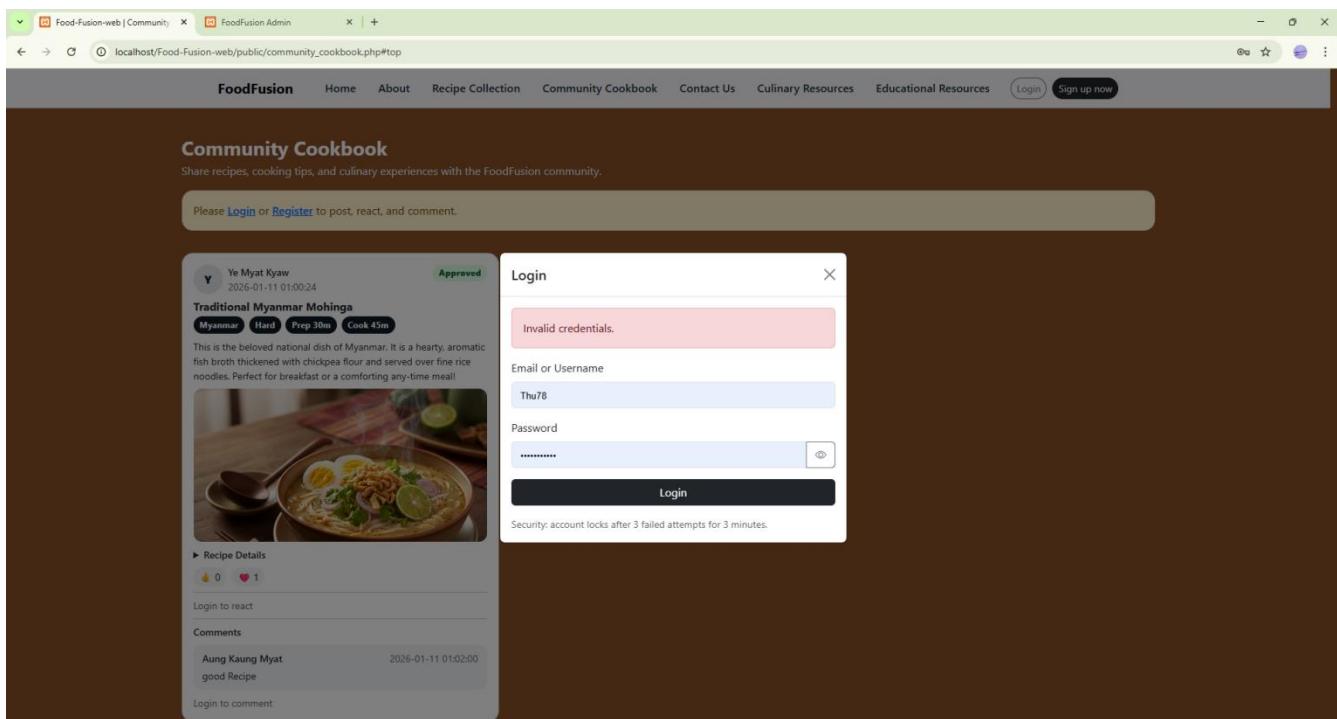


Figure 2.25

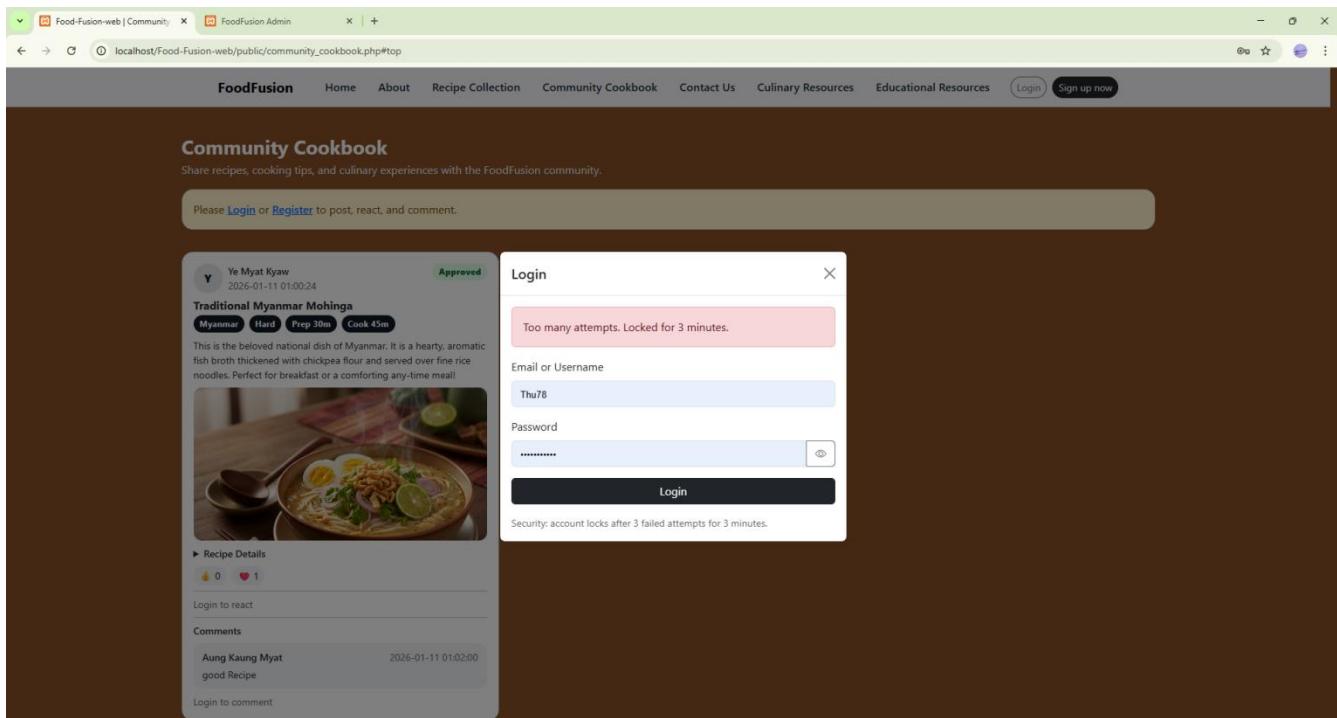


Figure 2.26

Admin dashboard

FoodFusion Admin

Logged in: yemyat7

Logout

Dashboard

Recipe Collection (30)

Chefs (5)

Cooking Events (10)

Community (1)

Contact Messages (1)

Culinary Resources (20)

Educational Resources (19)

Users (4)

Users Control Panel

Edit user profile + role/is_active + Lock/Unlock

ID	Name	Username	Email	Role	Active	Attempts	Lockout	Actions
10	Tun Tun	tun78	Tun78@gmail.com	chef	Yes	0	OK	Edit Unlock Lock
9	Thu Thu	Thu78	Thu78@gmail.com	user	Yes	3	Locked 2026-01-10 22:37:04	Edit Unlock Lock
7	Aung Kaung Myat	Aung67	aung2@gmail.com	user	Yes	0	OK	Edit Unlock Lock
6	Ye Myat Kyaw	Yemyat78	yemyat76200@gmail.com	chef	Yes	0	OK	Edit Unlock Lock

FoodFusion Admin • 2026-01-10 22:34:32

Figure 2.27

FoodFusion Admin

Logged in: yemyat7

Logout

Dashboard

Recipe Collection (30)

Chefs (5)

Cooking Events (10)

Community (1)

Contact Messages (1)

Culinary Resources (20)

Educational Resources (19)

Users (4)

User unlocked.

Users Control Panel

Edit user profile + role/is_active + Lock/Unlock

ID	Name	Username	Email	Role	Active	Attempts	Lockout	Actions
10	Tun Tun	tun78	Tun78@gmail.com	chef	Yes	0	OK	Edit Unlock Lock
9	Thu Thu	Thu78	Thu78@gmail.com	user	Yes	0	OK	Edit Unlock Lock
7	Aung Kaung Myat	Aung67	aung2@gmail.com	user	Yes	0	OK	Edit Unlock Lock
6	Ye Myat Kyaw	Yemyat78	yemyat76200@gmail.com	chef	Yes	0	OK	Edit Unlock Lock

FoodFusion Admin • 2026-01-10 22:34:43

Figure 2.28

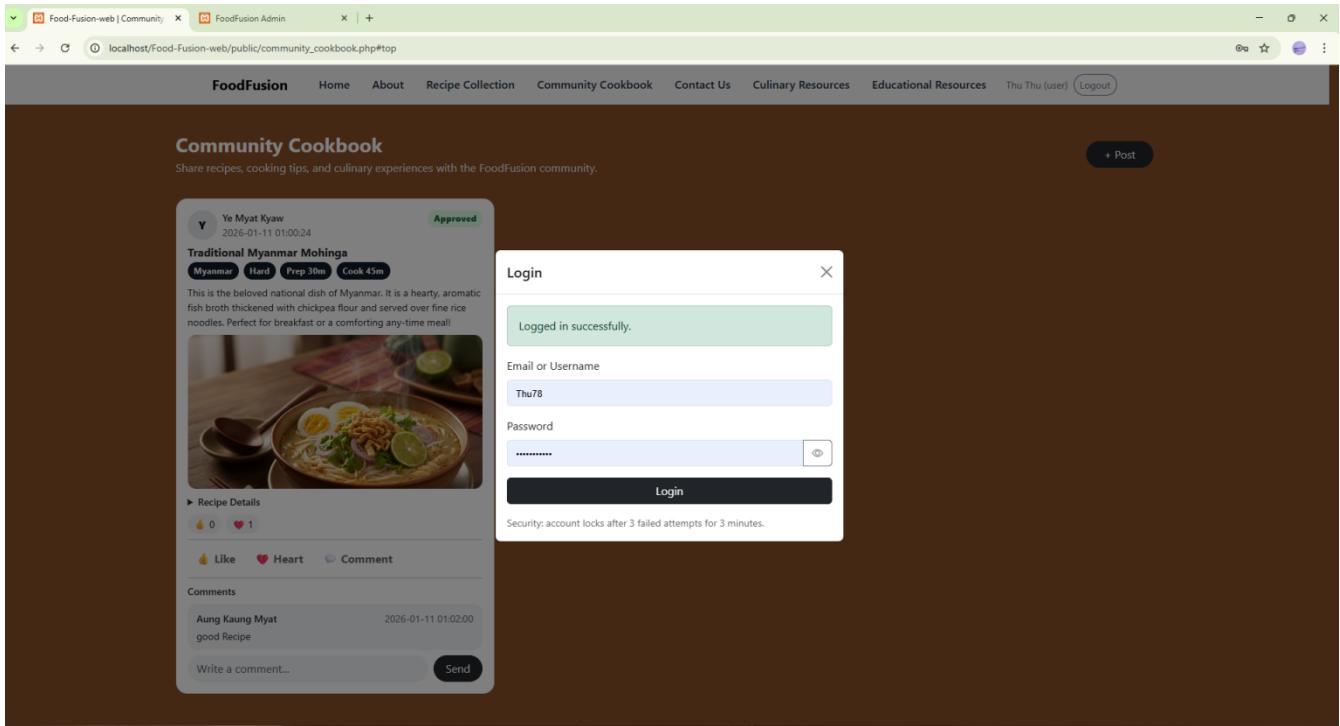


Figure 2.29

Logout

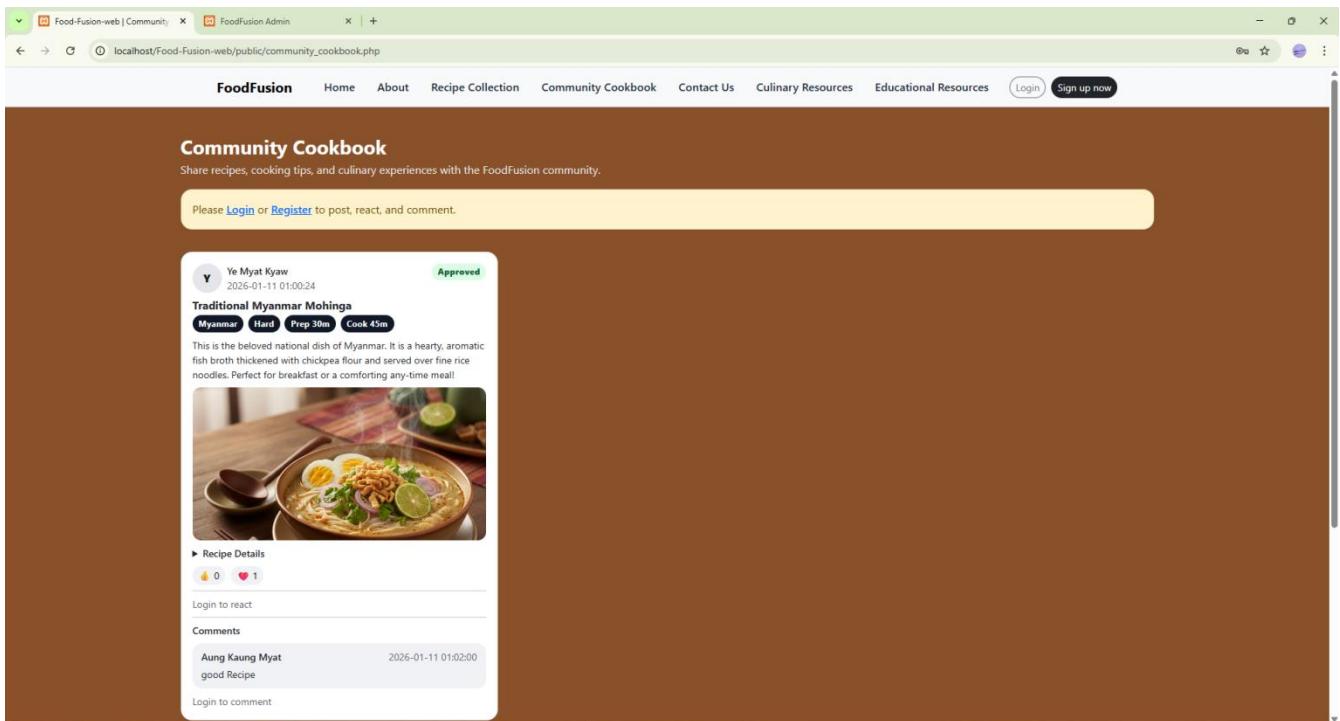


Figure 2.30

Password encryption

Showing rows 0 - 3 (4 total, Query took 0 0003 seconds)

`SELECT * FROM `users``

	user_id	fname	lname	phone	username	email	password_hash	gender	role	is_active	last_login_at	failed_login_attempts	lockout_until
<input type="checkbox"/>	6	Ye Myat	Kyaw	09762007221	Yemyat70	yemyat76200@gmail.com	\$2y\$10\$Znof5Pr3mzUYtsDm0PNNRNIHR/Qc8CczGm3Rj1K9Zm...	Male	chef	1	2026-01-11 03:06:41	0	NULL
<input type="checkbox"/>	7	Aung	Kaung	09762007222	Aung67	aung2@gmail.com	\$2y\$10\$7ac9BuSHChBwmO2f2AYteqXExNkyol5i8mgnbP1x/a...	Male	user	1	2026-01-11 04:00:31	0	NULL
<input type="checkbox"/>	9	Thu	Thu	09762007226	Thu78	Thu78@gmail.com	\$2y\$10\$nPc3a.FeZPjd72CG9/FdW.CdYkcTjRzFWKCjtVaSdfC...	Male	user	1	2026-01-11 04:04:56	0	NULL
<input type="checkbox"/>	10	Tun	Tun	09762007220	tun78	Tun78@gmail.com	\$2y\$10\$GmNVljQ8zhz0ZikcYk/XE.pN1rGjdFwgysgf4F6.HY9...	Female	chef	1	NULL	0	NULL

Figure 2.31

	user_id	fname	lname	phone	username	email	password_hash
<input type="checkbox"/>	6	Ye Myat	Kyaw	09762007221	Yemyat70	yemyat76200@gmail.com	\$2y\$10\$Znof5Pr3mzUYtsDm0PNNRNIHR/Qc8CczGm3Rj1K9Zm...
<input type="checkbox"/>	7	Aung	Kaung	09762007222	Aung67	aung2@gmail.com	\$2y\$10\$7ac9BuSHChBwmO2f2AYteqXExNkyol5i8mgnbP1x/a...
<input type="checkbox"/>	9	Thu	Thu	09762007226	Thu78	Thu78@gmail.com	\$2y\$10\$nPc3a.FeZPjd72CG9/FdW.CdYkcTjRzFWKCjtVaSdfC...
<input type="checkbox"/>	10	Tun	Tun	09762007220	tun78	Tun78@gmail.com	\$2y\$10\$GmNVljQ8zhz0ZikcYk/XE.pN1rGjdFwgysgf4F6.HY9...

Figure 2.32

1) Consistent Layout (All Pages)

- Header / Navbar (same on every page)
- Footer (privacy, cookie, social links)
- Navigation works (no broken links)

2) Homepage

- Platform overview (FoodFusion purpose)
- Join / Login entry point (modal)
- Dynamic content (DB data: recipes/posts/resources)
- Clear call-to-action

3) About Us

- Mission & vision
- Team / Chef information
- Professional content layout

4) Recipe Collection

- Recipe list from database
- Recipe details (image, cuisine, difficulty)
- User can browse recipes

5) Community Cookbook

- Role-based posting
 - User: basic post
 - Chef: detailed recipe post
- User posts require admin approval
- Only approved posts shown publicly

6) Contact Us

- Contact form with validation
- Messages saved to database
- Success / error feedback shown

7) Culinary Resources

- List of culinary resources
- Structured content (cards/links)
- Easy to access

8) Educational Resources

- Educational learning materials
- Clear layout and navigation
- Resource links/content visible

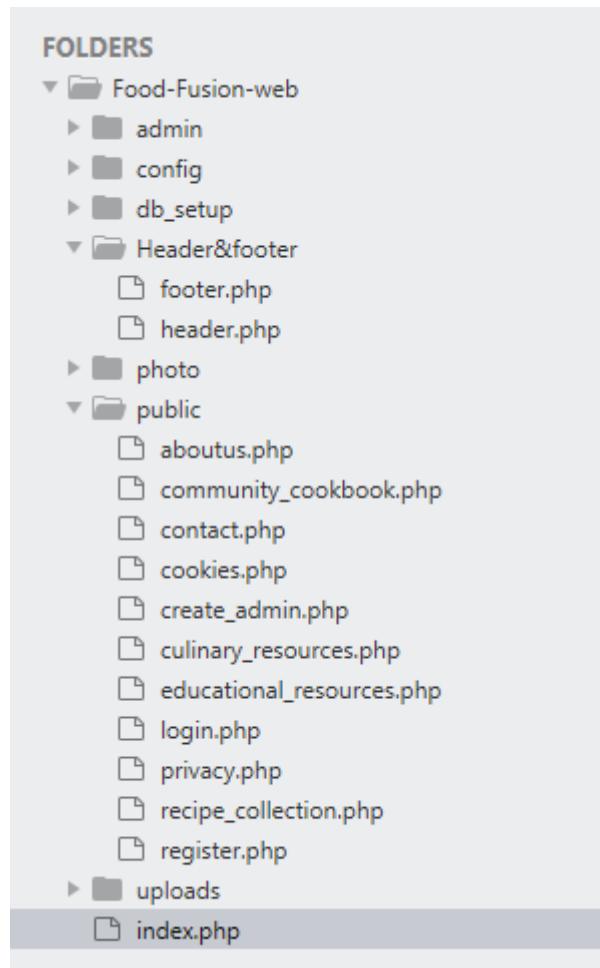
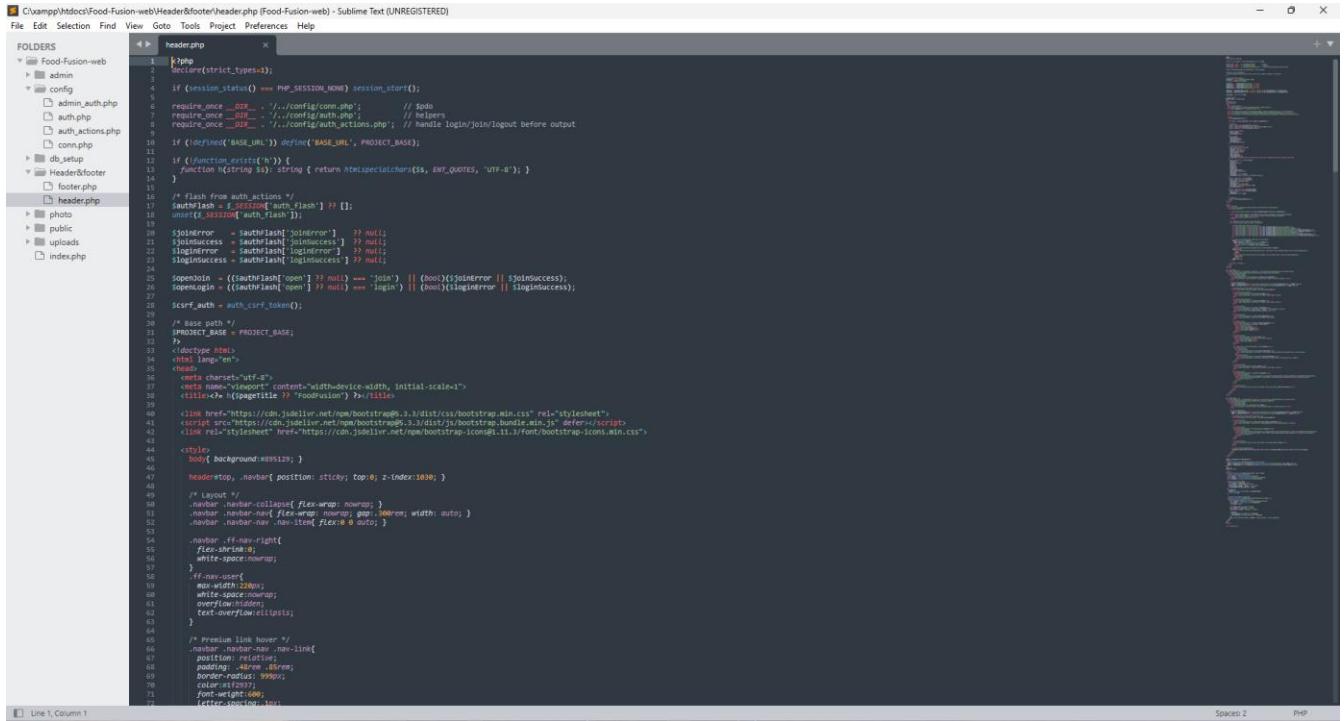


Figure 3.1

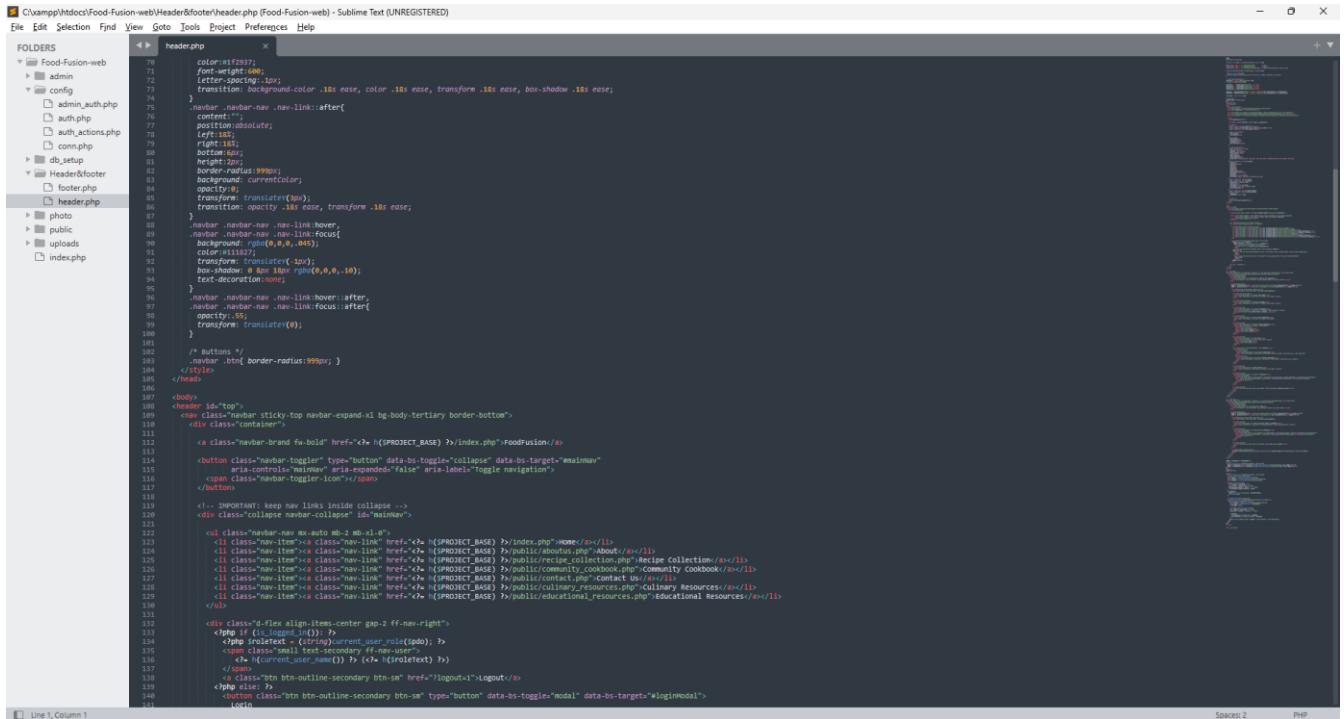
Header.php



```

1 <?php
2     //session_start();
3     if (session_status() === PHP_SESSION_NONE) session_start();
4 
5     require_once __DIR__ . '/config/con.php'; // Spdo
6     require_once __DIR__ . '/config/auth.php'; // helpers
7     require_once __DIR__ . '/config/auth_actions.php'; // Handle login/logout before output
8 
9     if (!defined('BASE_URL')) define('BASE_URL', PROJECT_BASE);
10 
11     if (function_exists('h')) {
12         function ($string $s): string { return htmlspecialchars($s, ENT_QUOTES, 'UTF-8'); }
13     }
14 
15     /* Flash from auth actions */
16     $authFlash = $_SESSION['auth_flash'] ?? [];
17     unset($_SESSION['auth_flash']);
18 
19     $joinError = $authFlash['joinError'] ?? null;
20     $joinSuccess = $authFlash['joinSuccess'] ?? null;
21     $logInError = $authFlash['logInError'] ?? null;
22     $logInSuccess = $authFlash['logInSuccess'] ?? null;
23 
24     $openLogin = ($authFlash['open'] ?? null) === 'join' || ($joinError || $joinSuccess);
25     $openLogIn = ($authFlash['open'] ?? null) === 'login' || ($logInError || $logInSuccess);
26 
27     $currAuth = auth_curr_token();
28 
29     /* Base path */
30     $PROJECT_BASE = PROJECT_BASE;
31     $P = <doctype html>
32     $P .= <html lang="en">
33     $P .= <head>
34     $P .= <meta name="viewport" content="width=device-width, initial-scale=1">
35     $P .= <title>h(page title)</title>
36     $P .= <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">
37     $P .= <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js" defer></script>
38     $P .= <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.11.3/font/bootstrap-icons.min.css">
39     $P .= <style>
40     $P .=     body { background:#E9E9E9; }
41     $P .= </style>
42     $P .= <header>#nav-top .nav-item position: sticky; top:0; z-index:1000; </header>
43 
44     /* Layout */
45     $P .= <nav>#nav-top .nav-collapse{ flex-wrap: nowrap; }
46     $P .=     nav.navbar{ margin: auto; width: 100%; }
47     $P .=     .navbar .nav{ margin: auto; width: auto; }
48 
49     $P .=     .navbar .fl-nav-right{ flex-shrink:0; white-space: nowrap; }
50 
51     $P .=     ff-new-user{ margin: 0 auto; width: 100px; white-space: nowrap; overflow: hidden; text-overflow: ellipsis; }
52 
53     /* Premium link hover */
54     $P .=     .navbar .nav-item .nav-link{ position: relative; padding: 0 15px; border-radius: 999px; border: 1px solid transparent; background-color: transparent; color: #111; opacity: 0; transition: transform 0.3s ease, opacity 0.3s ease; }
55     $P .=     .navbar .nav-item .nav-link:after{ content: ""; position: absolute; left: -10px; right: 10px; top: 50%; height: 2px; border-radius: 50%; background-color: currentColor; opacity: 0; transform: translateX(0); transition: opacity 0.3s ease, transform 0.3s ease; }
56     $P .=     .navbar .nav-item .nav-link:hover, .navbar .nav-item .nav-link:focus{ background: #ccc; color: #111; box-shadow: 0 0 0 1px rgba(0,0,0,10); text-decoration: none; }
57     $P .=     .navbar .nav-item .nav-link:hover:after, .navbar .nav-item .nav-link:focus:after{ opacity: 0.5; transform: translate(0); }
58 
59     /* Buttons */
60     $P .=     .nav-item .btn{ border-radius: 99px; }
61 
62     </nav>
63     <body id="top">
64     <div class="navbar sticky-top navbar-expand-xl bg-body-tertiary border-bottom">
65         <div class="container">
66             <div class="nav-item nav-item-brand fw-bold" href="#>h(PROJECT_BASE)>/index.php">FoodFusion</a>
67             <button class="nav-item nav-item-toggle" type="button" data-bs-toggle="collapse" data-bs-target="#mainNav" aria-controls="mainNav" aria-expanded="false" aria-label="Toggle navigation">
68                 <span class="nav-item-icon"></span>
69             </button>
70             <div class="collapse navbar-collapse" id="mainNav">
71                 <ul class="nav-item nav-item-list" style="list-style-type: none; padding-left: 0; margin: 0; font-size: 0.8em; font-weight: bold;">
72                     <li class="nav-item"><a class="nav-item-link" href="#>h(PROJECT_BASE)">/index.php</a></li>
73                     <li class="nav-item"><a class="nav-item-link" href="#>h(PROJECT_BASE)">/public/about.php</a></li>
74                     <li class="nav-item"><a class="nav-item-link" href="#>h(PROJECT_BASE)">/public/our-menu.php</a></li>
75                     <li class="nav-item"><a class="nav-item-link" href="#>h(PROJECT_BASE)">/public/our-story-cookbook.php</a></li>
76                     <li class="nav-item"><a class="nav-item-link" href="#>h(PROJECT_BASE)">/public/contact.php</a></li>
77                     <li class="nav-item"><a class="nav-item-link" href="#>h(PROJECT_BASE)">/public/educational-resources.php</a></li>
78                     <li class="nav-item"><a class="nav-item-link" href="#>h(PROJECT_BASE)">/educational-resources/>Educational Resources</a></li>
79                 </ul>
80             </div>
81             <div class="d-flex align-items-center gap-2 ff-new-right">
82                 <php if (!is_logged_in()) { >
83                     <div>#nav-top .nav-item .nav-link{ position: relative; padding: 0 15px; border-radius: 99px; border: 1px solid transparent; background-color: transparent; color: #111; opacity: 0; transition: transform 0.3s ease, opacity 0.3s ease; }>
84                     <button class="nav-item nav-item-link" href="#">Login</button>
85                 </php >
86             </div>
87         </div>
88     </div>
89 
```

Figure 3.2



```

1 <?php
2     //session_start();
3     if (session_status() === PHP_SESSION_NONE) session_start();
4 
5     require_once __DIR__ . '/config/con.php'; // Spdo
6     require_once __DIR__ . '/config/auth.php'; // helpers
7     require_once __DIR__ . '/config/auth_actions.php'; // Handle login/logout before output
8 
9     if (!defined('BASE_URL')) define('BASE_URL', PROJECT_BASE);
10 
11     if (function_exists('h')) {
12         function ($string $s): string { return htmlspecialchars($s, ENT_QUOTES, 'UTF-8'); }
13     }
14 
15     /* Flash from auth actions */
16     $authFlash = $_SESSION['auth_flash'] ?? [];
17     unset($_SESSION['auth_flash']);
18 
19     $joinError = $authFlash['joinError'] ?? null;
20     $joinSuccess = $authFlash['joinSuccess'] ?? null;
21     $logInError = $authFlash['logInError'] ?? null;
22     $logInSuccess = $authFlash['logInSuccess'] ?? null;
23 
24     $openLogin = ($authFlash['open'] ?? null) === 'join' || ($joinError || $joinSuccess);
25     $openLogIn = ($authFlash['open'] ?? null) === 'login' || ($logInError || $logInSuccess);
26 
27     $currAuth = auth_curr_token();
28 
29     /* Base path */
30     $PROJECT_BASE = PROJECT_BASE;
31     $P = <doctype html>
32     $P .= <html lang="en">
33     $P .= <head>
34     $P .= <meta name="viewport" content="width=device-width, initial-scale=1">
35     $P .= <title>h(page title)</title>
36     $P .= <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">
37     $P .= <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js" defer></script>
38     $P .= <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.11.3/font/bootstrap-icons.min.css">
39     $P .= <style>
40     $P .=     body { background:#E9E9E9; }
41     $P .= </style>
42     $P .= <header>#nav-top .nav-item position: sticky; top:0; z-index:1000; </header>
43 
44     /* Layout */
45     $P .= <nav>#nav-top .nav-collapse{ flex-wrap: nowrap; }
46     $P .=     nav.navbar{ margin: auto; width: 100%; }
47     $P .=     .navbar .nav{ margin: auto; width: auto; }
48 
49     $P .=     .navbar .fl-nav-right{ flex-shrink:0; white-space: nowrap; }
50 
51     $P .=     ff-new-user{ margin: 0 auto; width: 100px; white-space: nowrap; overflow: hidden; text-overflow: ellipsis; }
52 
53     /* Premium link hover */
54     $P .=     .navbar .nav-item .nav-link{ position: relative; padding: 0 15px; border-radius: 999px; border: 1px solid transparent; background-color: transparent; color: #111; opacity: 0; transition: transform 0.3s ease, opacity 0.3s ease; }
55     $P .=     .navbar .nav-item .nav-link:after{ content: ""; position: absolute; left: -10px; right: 10px; top: 50%; height: 2px; border-radius: 50%; background-color: currentColor; opacity: 0; transform: translateX(0); transition: opacity 0.3s ease, transform 0.3s ease; }
56     $P .=     .navbar .nav-item .nav-link:hover, .navbar .nav-item .nav-link:focus{ background: #ccc; color: #111; box-shadow: 0 0 0 1px rgba(0,0,0,10); text-decoration: none; }
57     $P .=     .navbar .nav-item .nav-link:hover:after, .navbar .nav-item .nav-link:focus:after{ opacity: 0.5; transform: translate(0); }
58 
59     /* Buttons */
60     $P .=     .nav-item .btn{ border-radius: 99px; }
61 
62     </nav>
63     <body id="top">
64     <div class="navbar sticky-top navbar-expand-xl bg-body-tertiary border-bottom">
65         <div class="container">
66             <div class="nav-item nav-item-brand fw-bold" href="#>h(PROJECT_BASE)>/index.php">FoodFusion</a>
67             <button class="nav-item nav-item-toggle" type="button" data-bs-toggle="collapse" data-bs-target="#mainNav" aria-controls="mainNav" aria-expanded="false" aria-label="Toggle navigation">
68                 <span class="nav-item-icon"></span>
69             </button>
70             <div class="collapse navbar-collapse" id="mainNav">
71                 <ul class="nav-item nav-item-list" style="list-style-type: none; padding-left: 0; margin: 0; font-size: 0.8em; font-weight: bold;">
72                     <li class="nav-item"><a class="nav-item-link" href="#>h(PROJECT_BASE)">/index.php</a></li>
73                     <li class="nav-item"><a class="nav-item-link" href="#>h(PROJECT_BASE)">/public/about.php</a></li>
74                     <li class="nav-item"><a class="nav-item-link" href="#>h(PROJECT_BASE)">/public/our-menu.php</a></li>
75                     <li class="nav-item"><a class="nav-item-link" href="#>h(PROJECT_BASE)">/public/our-story-cookbook.php</a></li>
76                     <li class="nav-item"><a class="nav-item-link" href="#>h(PROJECT_BASE)">/public/contact.php</a></li>
77                     <li class="nav-item"><a class="nav-item-link" href="#>h(PROJECT_BASE)">/public/educational-resources.php</a></li>
78                     <li class="nav-item"><a class="nav-item-link" href="#>h(PROJECT_BASE)">/educational-resources/>Educational Resources</a></li>
79                 </ul>
80             </div>
81             <div class="d-flex align-items-center gap-2 ff-new-right">
82                 <php if (!is_logged_in()) { >
83                     <div>#nav-top .nav-item .nav-link{ position: relative; padding: 0 15px; border-radius: 99px; border: 1px solid transparent; background-color: transparent; color: #111; opacity: 0; transition: transform 0.3s ease, opacity 0.3s ease; }>
84                     <button class="nav-item nav-item-link" href="#">Login</button>
85                 </php >
86             </div>
87         </div>
88     </div>
89 
```

Figure 3.3

```

<button class="btn btn-dark btn-sm" type="button" data-bs-toggle="modal" data-bs-target="#joinModal"></button>
<div id="joinModal" class="modal fade" tabindex="-1" aria-labelledby="joinModalTitle" aria-hidden="true">
  <div class="modal-dialog modal-dialog-centered modal-lg modal-dialog-scrollable">
    <div class="modal-content">
      <div class="modal-body">
        <div class="row g-3">
          <div if ($joinSuccess) ><div class="alert alert-success mb-3">{$joinSuccess}</div><div><div if ($joinError) ><div class="alert alert-danger mb-3">{$joinError}</div><div></div>
          <form method="post" action="#">
            <input type="hidden" name="csrf_auth" value=<?php h($csrf_auth) ?>>
            <div class="col-12">
              <label class="form-label" for="first_name">First Name</label>
              <input class="form-control" type="text" id="first_name" name="first_name" required>
            </div>
            <div class="col-12">
              <label class="form-label" for="last_name">Last Name</label>
              <input class="form-control" type="text" id="last_name" name="last_name" required>
            </div>
            <div class="col-12">
              <label class="form-label" for="username">Username</label>
              <input class="form-control" type="text" id="username" name="username" required>
              <div class="form-text">3-20 chars: letters, numbers, _ or .</div>
            </div>
            <div class="col-12">
              <label class="form-label" for="phone">Phone (optional)</label>
              <input class="form-control" type="text" id="phone" name="phone" placeholder="e.g., +91 9876543210">
            </div>
            <div class="col-12">
              <label class="form-label" for="gender">Gender (optional)</label>
              <select class="form-select" id="gender" name="gender" required>
                <option value=""/>
                <option value="male">Male</option>
                <option value="female">Female</option>
                <option value="other">Other</option>
              </select>
            </div>
            <div class="col-12">
              <label class="form-label" for="role">Role</label>
              <select class="form-select" id="role" name="role" required>
                <option value=""/>
                <option value="chef">Chef</option>
                <option value="customer">Customer</option>
              </select>
            </div>
            <div class="col-12" id="joinChefFields" style="display:none">
              <div class="row g-3">
                <div class="col-12">
                  <label class="form-label" for="chef_name">Chef Name</label>
                  <input class="form-control" type="text" id="chef_name" name="chef_name" placeholder="e.g., Chef Aung Aung">
                </div>
                <div class="col-12">
                  <label class="form-label" for="country">Country (optional)</label>
                  <input class="form-control" type="text" id="country" name="country" placeholder="e.g., Myanmar">
                </div>
              </div>
            </div>
            <div class="col-12">
              <label class="form-label" for="email">Email</label>
              <input class="form-control" type="email" id="email" name="email" required>
            </div>
            <div class="col-12">
              <label class="form-label" for="password">Password</label>
              <div class="input-group">
                <input class="form-control" type="password" id="password" name="password" required minlength="8" autocomplete="new-password">
                <div class="input-group-text" data-toggle="password" id="passwordShow" data-bs-label="Show Password"><i class="bi bi-eye"></i></div>
              </div>
            </div>
            <div class="col-12">
              <button class="btn btn-dark w-100" type="submit" name="join_submit">Create my account</button>
            </div>
          </form>
        </div>
      </div>
    </div>
  </div>
<!-- LOGIN MODAL -->
<div id="loginModal" class="modal fade" tabindex="-1" aria-labelledby="loginModalTitle" aria-hidden="true">
  <div class="modal-dialog modal-dialog-centered modal-dialog-scrollable">
    <div class="modal-content">
      <div class="modal-body">
        <div class="row g-3">
          <div if ($loginSuccess) ><div class="alert alert-success mb-3">{$loginSuccess}</div><div><div if ($loginError) ><div class="alert alert-danger mb-3">{$loginError}</div><div></div>
          <form method="post" action="#">
            <input type="hidden" name="csrf_auth" value=<?php h($csrf_auth) ?>>
            <div class="col-12">
              <label class="form-label" for="login_identifier">Email or Username</label>
              <input class="form-control" type="text" id="login_identifier" name="login_identifier" required>
            </div>
            <div class="col-12">
              <label class="form-label" for="login_password">Password</label>
              <div class="input-group">
                <input class="form-control" type="password" id="login_password" name="login_password" required autocomplete="current-password">
                <div class="input-group-text" data-toggle="password" id="login_passwordShow" data-bs-label="Show Password"><i class="bi bi-eye"></i></div>
              </div>
            </div>
            <div class="col-12">
              <button class="btn btn-dark w-100" type="submit" name="login_submit">Login</button>
            </div>
          </form>
        </div>
      </div>
    </div>
  </div>

```

Figure 3.4

```

<div class="row g-3">
  <div if ($loginSuccess) ><div class="alert alert-success mb-3">{$loginSuccess}</div><div><div if ($loginError) ><div class="alert alert-danger mb-3">{$loginError}</div><div></div>
  <form method="post" action="#">
    <input type="hidden" name="csrf_auth" value=<?php h($csrf_auth) ?>>
    <div class="col-12">
      <label class="form-label" for="login_identifier">Email or Username</label>
      <input class="form-control" type="text" id="login_identifier" name="login_identifier" required>
    </div>
    <div class="col-12">
      <label class="form-label" for="login_password">Password</label>
      <div class="input-group">
        <input class="form-control" type="password" id="login_password" name="login_password" required autocomplete="current-password">
        <div class="input-group-text" data-toggle="password" id="login_passwordShow" data-bs-label="Show Password"><i class="bi bi-eye"></i></div>
      </div>
    </div>
    <div class="col-12">
      <button class="btn btn-dark w-100" type="submit" name="login_submit">Login</button>
    </div>
  </form>

```

Figure 3.5

The screenshot shows the Sublime Text editor with the file 'header.php' open. The file is located in the 'Food-Fusion-web\Header&footer\header.php' folder. The code is a PHP script with some JavaScript and CSS inline. It includes logic for account locks, event listeners for modal show/hide, and a password toggle function. The code is heavily commented with line numbers.

```
File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
  - admin
  - config
    - admin_auth.php
    - auth.php
    - auth_actions.php
    - conn.php
  - db_setup
  - HeaderFooter
    - footer.php
    - index.php
  - photo
  - public
  - uploads
header.php
<?php
  // Account lock logic
  if ($max_login_attempts > 0) {
    $lockout_minutes = $max_login_attempts * 5;
    echo '

Security: account locks after <code>' . $max_login_attempts . '> failed attempts for <code>' . $lockout_minutes . '> minutes.

';
  }
  // Check if user is logged in or joining
  if ($openJoin || $openLogin) {
    <?php if ($openJoin) :> new bootstrap_modal(document.getElementById('joinModal')).show(); <?php endif; >
    <?php if ($openLogin) :> new bootstrap_modal(document.getElementById('loginModal')).show(); <?php endif; >
  }
  // Add event listeners for modal content loaded
  document.addEventListener('DOMContentLoaded', function () {
    <?php if ($openJoin) :> new bootstrap_modal(document.getElementById('joinModal')).show(); <?php endif; >
    <?php if ($openLogin) :> new bootstrap_modal(document.getElementById('loginModal')).show(); <?php endif; >
  });
  // Script block
  <?php endif; ?>
<script>
  // Add event listener for modal content loaded
  document.addEventListener('DOMContentLoaded', function () {
    // Role -> chef fields (JOIN MODAL)
    const chefRole = document.getElementById('role');
    const chefForm = document.getElementById('joinChefFields');
    const chefName = document.getElementById('chef_name');

    function syncChefFields() {
      if (!chefRole) return;
      const isChef = chefRole.value === 'Chef';
      chefForm.style.display = isChef ? '' : 'none';
      if (chefName) chefName.required = isChef;
    }

    if (roleEl) {
      roleEl.addEventListener('change', syncChefFields);
      syncChefFields();
    }
  });

  // Password eye toggle (Join/login)
  document.querySelectorAll('[data-toggle="password"]').forEach(btn => {
    const selector = btn.getAttribute('data-toggle');
    const input = document.querySelector(selector);
    if (!input) return;

    const icon = btn.querySelector('i');
    const type = input.getAttribute('type');
    input.setAttribute('type', type === 'password' ? 'text' : 'password');
    if (icon) {
      icon.classList.toggle('bi-eye', !type);
      icon.classList.toggle('bi-eye-slash', type);
    }
  });
</script>
<main class="py-3">
```

Figure 3.6

Footer.php

```

<?php
// header@footer/footer.php
$PROJECT_BASE = '/root-Fusion-web';
?>
</head>
<footer class="bg-dark text-light pt-5 pb-4 mt-5">
    <div class="container">
        <div class="row g-4">
            <div class="col-12 col-md-6 col-lg-3">
                <div class="fw-bold mb-3">#FOODFUSION</div>
                <p>Thanks for stopping by Foodfusion.  
Cook boldly, share generously, and come back hungry for more.</p>
            </div>
            <div class="col-12 col-md-6 col-lg-4">
                <div class="mb-3"><a href="#">Support</a></div>
                <div class="list-unstyled text-secondary mb-3">
                    <ul class="list-style-type-none">
                        <li><a href="#">Cooking tips</a></li>
                        <li><a href="#">Customer support</a></li>
                        <li><a href="#">Privacy policy</a></li>
                    </ul>
                </div>
                <div class="col-12 col-md-6 col-lg-5">
                    <div class="fw-bold text-uppercase mb-3">Legal</div>
                    <div class="list-unstyled text-secondary mb-3">
                        <ul class="list-style-type-none">
                            <li><a href="#">About us</a></li>
                            <li><a href="#">Contact</a></li>
                            <li><a href="#">Privacy</a></li>
                            <li><a href="#">Cookie Policy</a></li>
                            <li><a href="#">Terms of service</a></li>
                            <li><a href="#">Refund policy</a></li>
                            <li><a href="#">Return policy</a></li>
                            <li><a href="#">Customer support</a></li>
                        </ul>
                    </div>
                </div>
            </div>
            <div class="col-12 col-md-6 col-lg-3">
                <hr class="border-secondary my-4">
                <div class="d-flex flex-column flex-md-row justify-content-between align-items-center gap-3">
                    <div class="mb-3 text-secondary">
                        <small>Copyright © 2026 - <a href="#">Foodfusion</a></small>
                    </div>
                    <div class="social media-profiles justify-content-end">
                        <div class="d-flex flex-wrap gap-2 justify-content-center justify-content-between align-items-center gap-2">
                            <a href="https://www.facebook.com/" target="_blank" rel="noopener">
                                <span>Facebook</span>
                            </a>
                            <a href="https://www.instagram.com/" target="_blank" rel="noopener">
                                <span>Instagram</span>
                            </a>
                            <a href="https://www.tiktok.com/" target="_blank" rel="noopener">
                                <span>TikTok</span>
                            </a>
                            <a href="https://www.youtube.com/" target="_blank" rel="noopener">
                                <span>YouTube</span>
                            </a>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>
</footer>

```

Figure 3.7

```

<?php
// header@footer/footer.php
$PROJECT_BASE = '/root-Fusion-web';
?>
</head>
<footer class="bg-dark text-white rounded-3 p-3 d-flex flex-column flex-md-row gap-3 align-items-md-center justify-content-between border">
    <div>
        <small>We use cookies to improve your experience.</small>
        <small><img alt="public/privacy.png" style="width: 1em; height: 1em; vertical-align: middle;"/></small><small><a href="#">Privacy Policy</a></small>
        <small><img alt="public/cookies.png" style="width: 1em; height: 1em; vertical-align: middle;"/></small><small><a href="#">Cookie Policy</a></small>
    </div>
    <div>
        <small>D-F-F</small>
    </div>
</footer>
<script>
    function() {
        const key = 'ff.cookie.consent';
        const banner = document.getElementById('cookiebanner');
        const accept = document.getElementById('cookieAccept');
        const reject = document.getElementById('cookieReject');

        if (!Banner || !accept || !reject) return;

        const v = localStorage.getItem(key);
        if (!v) banner.style.display = 'block';

        accept.addEventListener('click', () => {
            localStorage.setItem(key, 'accepted');
            banner.style.display = 'none';
        });

        reject.addEventListener('click', () => {
            localStorage.removeItem(key);
            localStorage.setItem(key, 'rejected');
            banner.style.display = 'none';
        });
    }();
</script>
</body>
</html>

```

Figure 3.8

Homepage(index.html)

```

index.php
1 <?php
2     // Strict types
3     strict_types=1;
4
5     error_reporting(E_ALL);
6     ini_set('display_errors', 1);
7
8     $pageTitle = "FoodFusion | Home";
9
10    require_once __DIR__ . '/config/con.php';
11    require_once __DIR__ . '/header/footer/header.php';
12
13    $PROJECT_BASE = __FILE__;
14
15    if (function_exists('')) {
16        function (String $s): string { return htmlspecialchars($s, ENT_QUOTES, 'UTF-8'); }
17        function normalizePath(string $path): string {
18            $path = trim($path);
19            if ($path[0] === '/') return '';
20            if (!preg_match('/^' . __DIR__ . '/[^/]+$', $path)) return $path;
21            $path = preg_replace('/^' . __DIR__ . '/[^/]+$', '', $path);
22            if ($path[0] === '/') $path[0] = '';
23            $path = '/' . $path;
24            return $path;
25        }
26
27        /* Featured recipes */
28        $featured = [];
29
30        try {
31            $stmt = $pdo->query(
32                "SELECT recipe_id, name, cuisine, dietary, image, description, created_at
33                 FROM recipe_collection
34                 ORDER BY created_at DESC, recipe_id DESC
35                 LIMIT 6");
36
37            $featured = $stmt->fetchAll(PDO::FETCH_ASSOC);
38        } catch (Throwable $e) {}
39
40        /* Upcoming events */
41        $events = [];
42
43        $stmt = $pdo->query(
44            "SELECT event_id, title, event_datetime, location, description, image
45             WHERE is_active = 1 AND event_datetime > NOW()
46             ORDER BY event_datetime ASC
47             LIMIT 10");
48
49        $events = $stmt->fetchAll(PDO::FETCH_ASSOC);
50    } catch (Throwable $e) {}
51
52    <style>
53        .section-title{ font-weight: bold; }
54        .glass-card{
55            background: rgba(255,255,255,.9);
56            border: 1px solid #ccc;
57            border-radius: 10px;
58            box-shadow: 0 10px 30px rgba(0,0,0,.1);
59        }
60
61        .mini-card{
62            border-radius: 10px;
63            overflow: hidden;
64            background: linear-gradient(25deg, #fff, #fff 50%, #f0f0f0 50%, #fff 100%);
65            border: 1px solid #ccc;
66            box-shadow: 0 10px 20px rgba(0,0,0,.1);
67            height: 100px;
68            transition: transform .15s ease, box-shadow .15s ease;
69        }
70        .mini-card:hover{ transform: translateX(-20px); box-shadow: 0 10px 40px rgba(0,0,0,.2); }
71        .mini-thumb{ width:100%; height:100%; object-fit:cover; background: rgba(255,255,255,.12); display:block; }
72        .mini-card p{ font-size: 14px; color: #ccc; margin: 5px; }
73    </style>

```

Figure 3.9

```

index.php
78    .mini-card:hover{ transition: transform .15s; box-shadow: 0 10px 40px rgba(0,0,0,.2); }
79    .mini-card{ border-radius: 10px; width: 100%; height: 140px; object-fit:cover; background: rgba(255,255,255,.12); display:block; }
80    .mini-desc{
81        padding: 10px;
82        color: #ccc;
83        font-size: 14px;
84        margin-top: 10px;
85    }
86
87    <!-- standard property (for compatibility) -->
88    .img-c-l{ width:100%; }
89    .img-c-l{ overflow: hidden; min-height:1.5em; }
90
91    .event-img{ width:100%; height:auto; object-fit:cover; border-radius:10px; background: rgba(255,255,255,.12); }
92
93    <!-- HERO -->
94    <section class="py-5">
95        <div class="container">
96            <div class="row align-items-center g-4">
97                /public/logo.png</a>" alt="FoodFusion logo" class="img-fluid" style="max-width:300px;" />
98            </div>
99        </div>
100        <div class="col-12 col-lg-7">
101            <h1 class="display-5 fw-bold mb-3 text-white">FoodFusion</h1>
102            <p>FoodFusion is your destination for bold flavors, creative recipes, and culinary ideas inspired by kitchens around the world. We blend tradition with innovation to turn simple ingredients into unforgettable meals made to be cooked, shared, and enjoyed.</p>
103        </div>
104        <div class="d-flex flex-column flex-sm-row gap-2">
105            <a href="#"><a href="#">/public/aboutus.php</a> About Us</a>
106            <a href="#" class="btn btn-dark px-4" type="button" data-bs-toggle="modal" data-bs-target="#joinModal">
107                Sign up now
108            </a>
109        </div>
110
111        <div class="mt-3 text-white-50 small">
112            Privacy & Cookies: See footer links.
113        </div>
114    </div>
115    </div>
116    </section>
117    <div class="row g-4">
118        <div class="col-lg-6">
119            <div class="py-5">
120                <div class="row align-items-end justify-content-between gap-3 mb-3">
121                    <div class="col-12 col-lg-5">
122                        <h2 class="section-title text-white mb-1">New Feeds</h2>
123                        <p class="text-white-50">Featured recipes and culinary trends.</p>
124                    </div>
125                    <div class="col-6 text-white-50">View more recipes</div>
126                </div>
127                <div class="row g-4">
128                    <div class="col-lg-4">
129                        <div class="card p-3">
130                            <div class="text-white-50">View more recipes</div>
131                            <div class="text-white-50">View more feeds</div>
132                        </div>
133                    </div>
134                </div>
135            </div>
136        </div>
137    </div>
138    <div class="text-white-50">Featured Recipes</div>

```

Figure 3.10

Screenshot of Sublime Text showing the index.php file from the Food-Fusion-web project. The code is a PHP template with embedded HTML and CSS. It features a grid layout for featured recipes, sections for culinary trends, and a call-to-action button. The code uses Bootstrap classes like .row, .col-lg-4, and .d-flex justify-content-between.

```

116 <div class="row g-4">
117   <div class="col-12 col-lg-4">
118     <div class="d-flex justify-content-between align-items-center mb-3">
119       <div>
120         
121       <div class="text-white mb-0 small">Auto-updated</div>
122     </div>
123   </div>
124   <div class="row g-3">
125     <php if (!($featured)) >
126       <div class="text-white mb-0">No recipes found yet.</div>
127     <php else >
128       <php foreach ($featured as $f) >
129         <div class="col-12 col-md-6 col-lg-4">
130           <div href="#"><img alt="Normalized path of string($f['image'])" data-bbox="120px 120px 150px 150px" style="width: 100%; height: 100%; object-fit: cover;"/>
131           <div class="text-white mb-0 small">No recipes found yet.</div>
132         </div>
133       </php endforeach; >
134     <php endif; >
135   </div>
136 </div>
137 <div class="col-12 col-lg-4">
138   <div class="glass-card p-4 h-100">
139     <div class="text-white mb-3">Culinary Trends:</div>
140     <div class="d-flex flex-column gap-3">
141       <div class="text-white fw-semibold">High-protein meal prep</div>
142       <div class="text-white fw-semibold">Batch cooking with smart macros and storage.</div>
143       <div class="text-white fw-semibold">Global street food at home</div>
144       <div class="text-white fw-semibold">Fast techniques, authentic flavors, simple ingredients.</div>
145       <div class="text-white fw-semibold">Plant-forward comfort foods</div>
146       <div class="text-white fw-semibold">Vegan-friendly versions of classic favorites.</div>
147     </div>
148   </div>
149 </div>
150 <div class="mt-4">
151   <a href="#" data-bbox="120px 120px 150px 150px" style="background-color: #007bff; color: white; padding: 10px 20px; border-radius: 5px; text-decoration: none; font-weight: bold;">Learn more
152 </div>
153 </div>
154 </div>
155 </div>
156 </div>
157 </div>
158 </div>
159 </div>
160 </div>
161 </div>
162 </div>
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263 </div>
264 </div>
265 </div>
266 </div>
267 </div>
268 </div>
269 </div>
270 </div>
271 </div>
272 </div>
273 </div>
274 <php require_once __DIR__ . '/header/footer/footer.php'; >
275 </div>
276 </div>

```

Figure 3.11

Screenshot of Sublime Text showing the index.php file from the Food-Fusion-web project. This version includes an events carousel section. The code handles the creation of event cards and manages their display using Bootstrap's carousel and modal components. It also includes logic for handling event details and joining an event.

```

200 <!-- EVENTS CAROUSEL -->
201 <section class="py-5">
202   <div class="container">
203     <div class="section-title text-white mb-1">Upcoming Cooking Events:</div>
204     <div class="section-subtitle text-white-50">Workshops and Community Cooking Sessions:</div>
205     <div>
206       <div>
207         <div class="text-white" style="font-size: 1.2em;"><?php if ($events) : >
208           <div class="glass-card p-4 text-white">
209             <div>No upcoming events yet. Add records in <code>cooking_events</code>.</div>
210           </div>
211         </div>
212         <div id="eventsCarousel" class="carousel slide" data-bs-ride="carousel">
213           <div class="carousel-inner">
214             <div class="carousel-item" style="background-color: #f0f0f0;"><?php if ($events) : >
215               <div class="text-white" style="font-size: 1.2em;">Upcoming Events as Slides:</div>
216               <img alt="Normalized path of string($event['image'])" data-bbox="120px 120px 150px 150px" style="width: 100%; height: 100%; object-fit: cover;"/>
217               <div class="text-white mb-0 small"><?php if ($event['description']) : >
218                 <div> <?php echo $event['description']; ?>
219               </div>
220             </div>
221             <div class="text-white mb-0 small"><?php if ($event['date']) : >
222               <div> Sdt = <?php echo $event['date']->format('Y-m-d'); ?>
223               <div> $timestr = <?php echo date('Y-m-d H:i:s', strtotime($sdt)); ?>
224               <div> $datestr = <?php echo $timestr->format('Y-m-d H:i:s'); ?>
225               <div> $dstr = <?php echo $timestr->format('H:i:s'); ?>
226               <div> $desc = <?php echo $event['description']; ?>
227             </div>
228             <div> <?php if ($desc === '') : >
229               <div class="text-white mb-0 small"><?php if ($desc) : >
230                 <div> <?php echo $desc; ?>
231               </div>
232             </div>
233           </div>
234         </div>
235         <div class="text-white mb-0 small">Join / Ask Details</div>
236       </div>
237     </div>
238   </div>
239   <div class="text-white mb-0 small"><?php endif; ?>
240 </div>
241 </div>
242 </div>
243 <!-- Events Control Buttons -->
244 <div class="text-white mb-0 small"><?php if ($events) : >
245   <div class="text-white mb-0 small"><?php if ($events[0]) : >
246     <button class="text-white mb-0 small" type="button" data-bs-target="#eventsCarousel" data-bs-slide="prev"><span><img alt="Left arrow icon" data-bbox="120px 120px 150px 150px" style="width: 100%; height: 100%; object-fit: cover;"/></span><span class="visually-hidden">Previous</span><span><img alt="Right arrow icon" data-bbox="120px 120px 150px 150px" style="width: 100%; height: 100%; object-fit: cover;"/></span><span class="visually-hidden">Next</span>

```

Figure 3.12

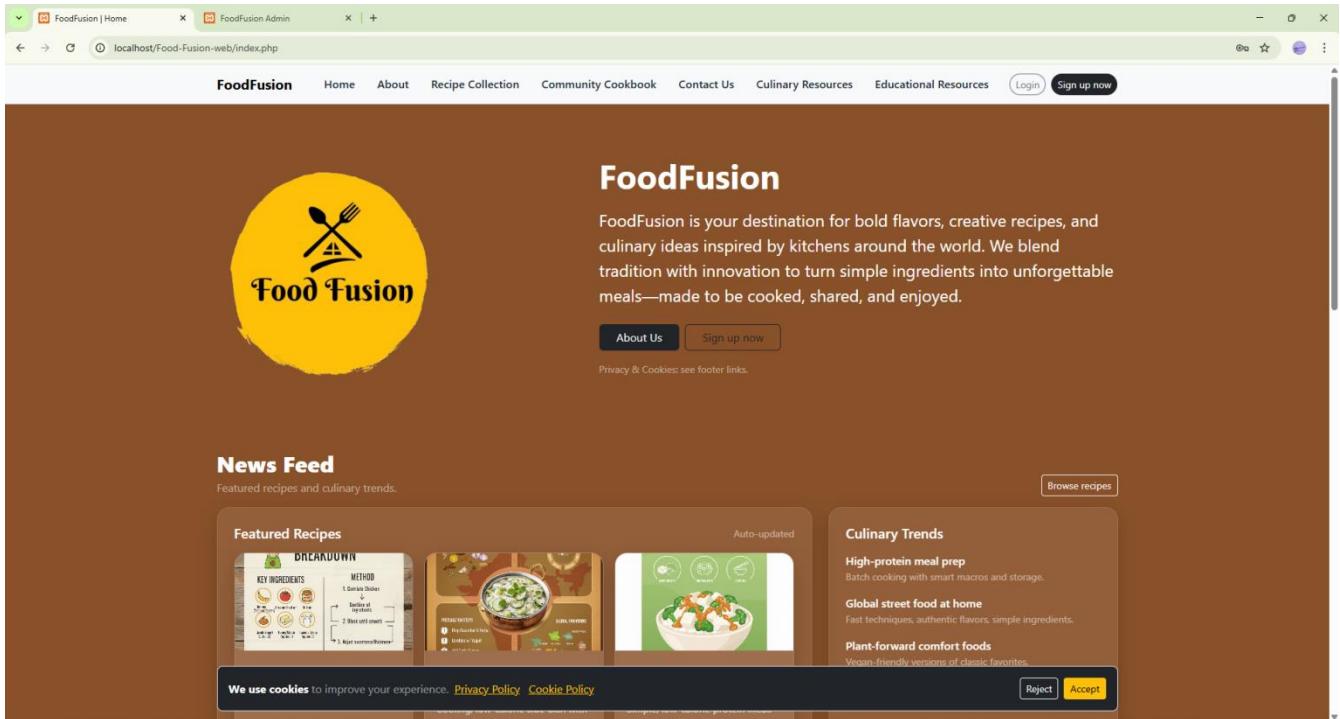


Figure 3.13

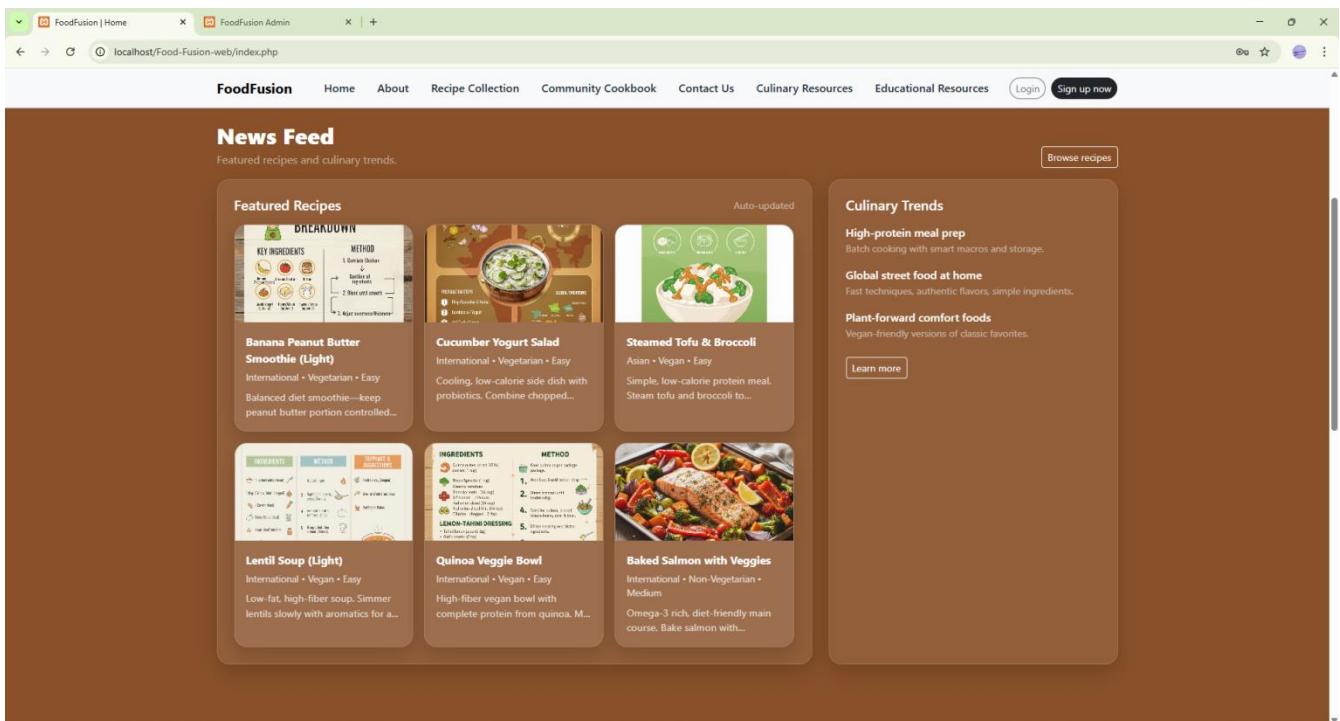


Figure 3.14

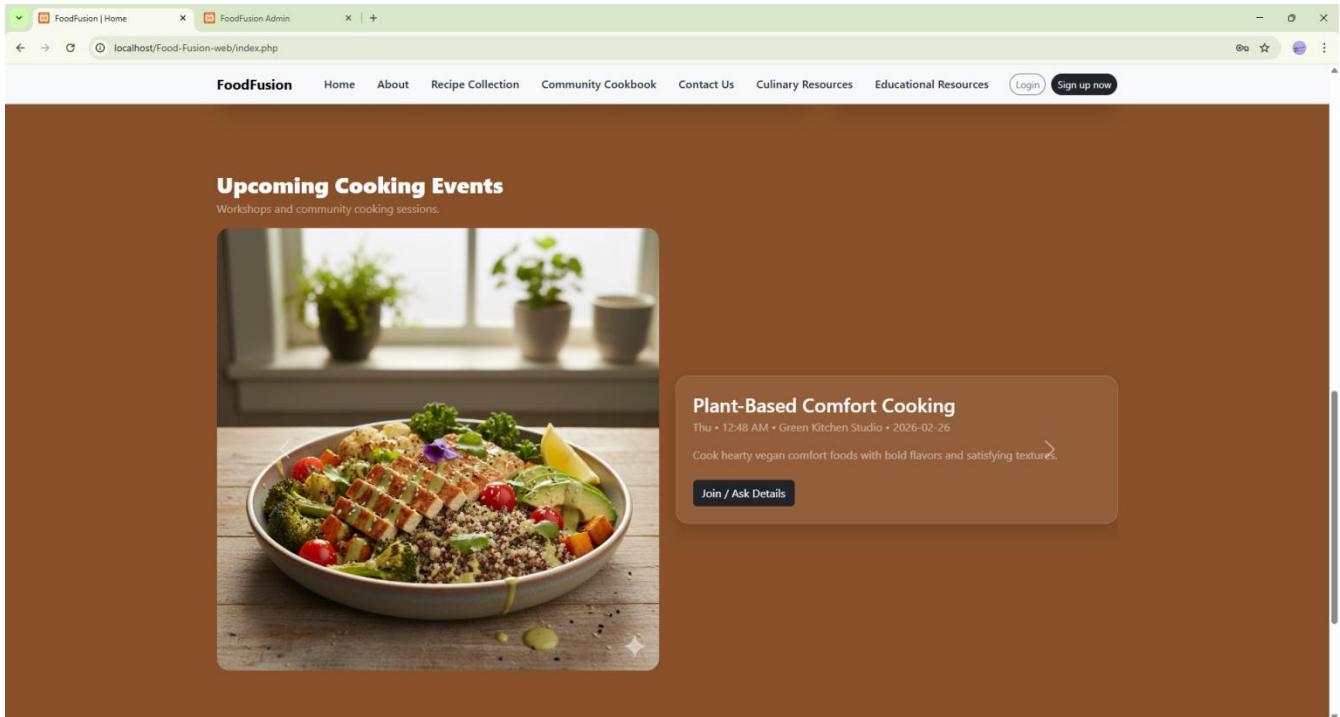


Figure 3.15

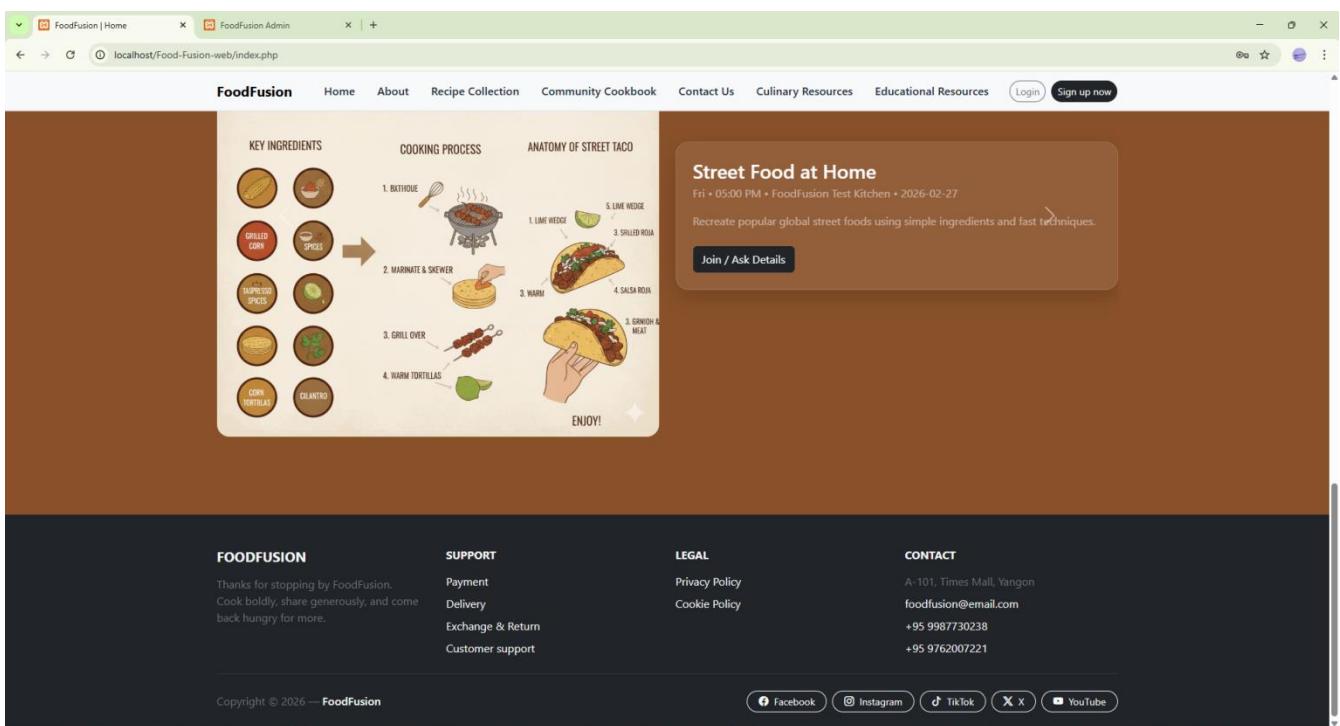


Figure 3.16

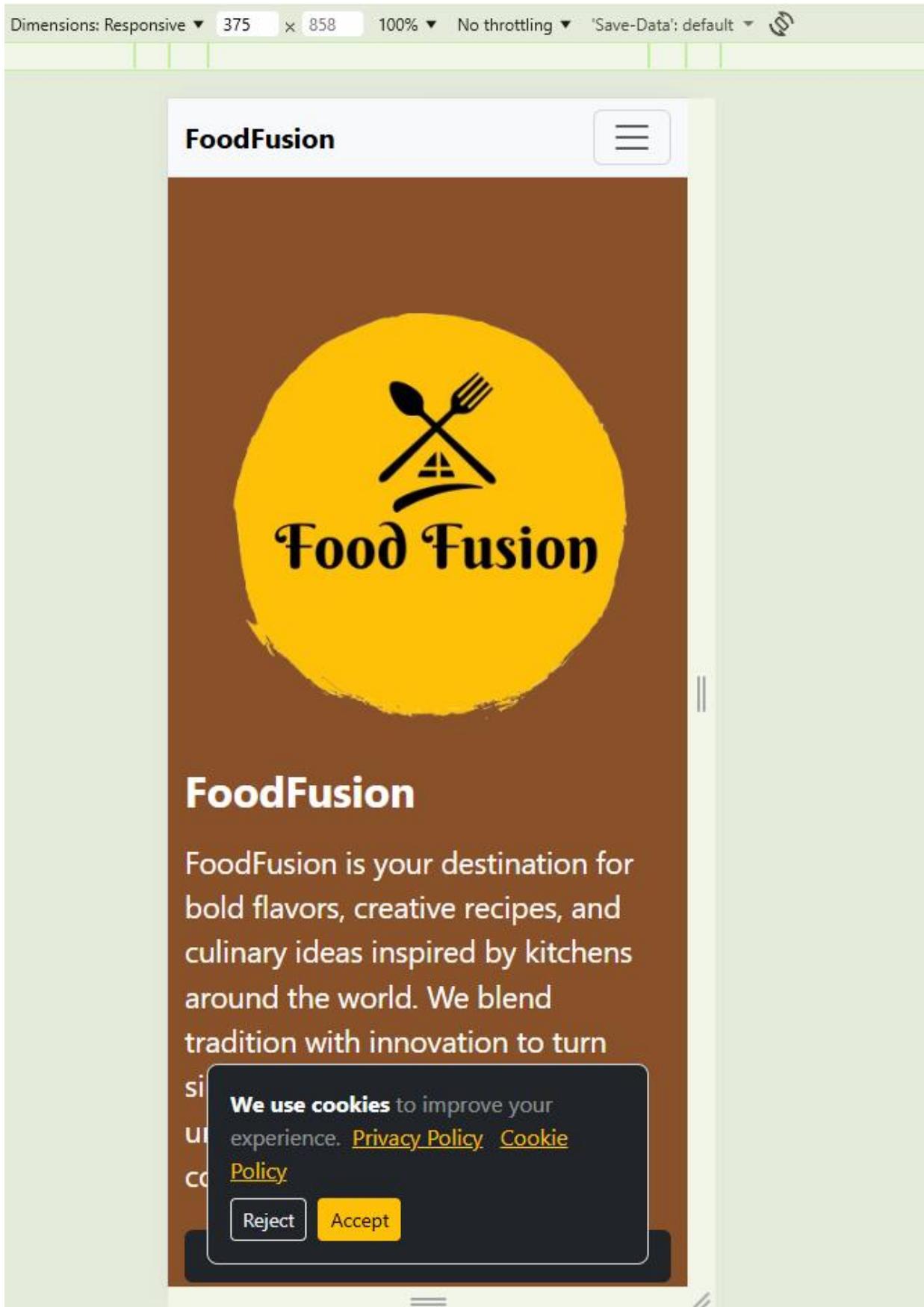
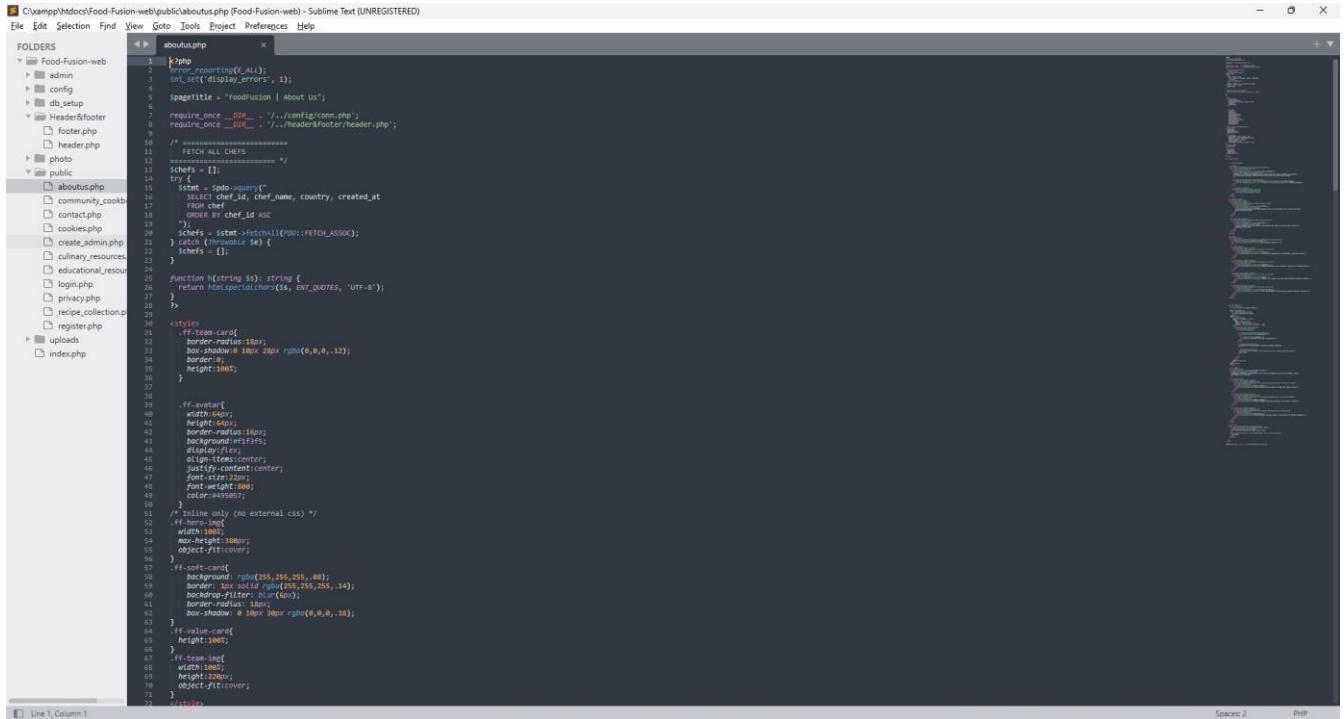


Figure 3.17

Aboutus(aboutus.php)

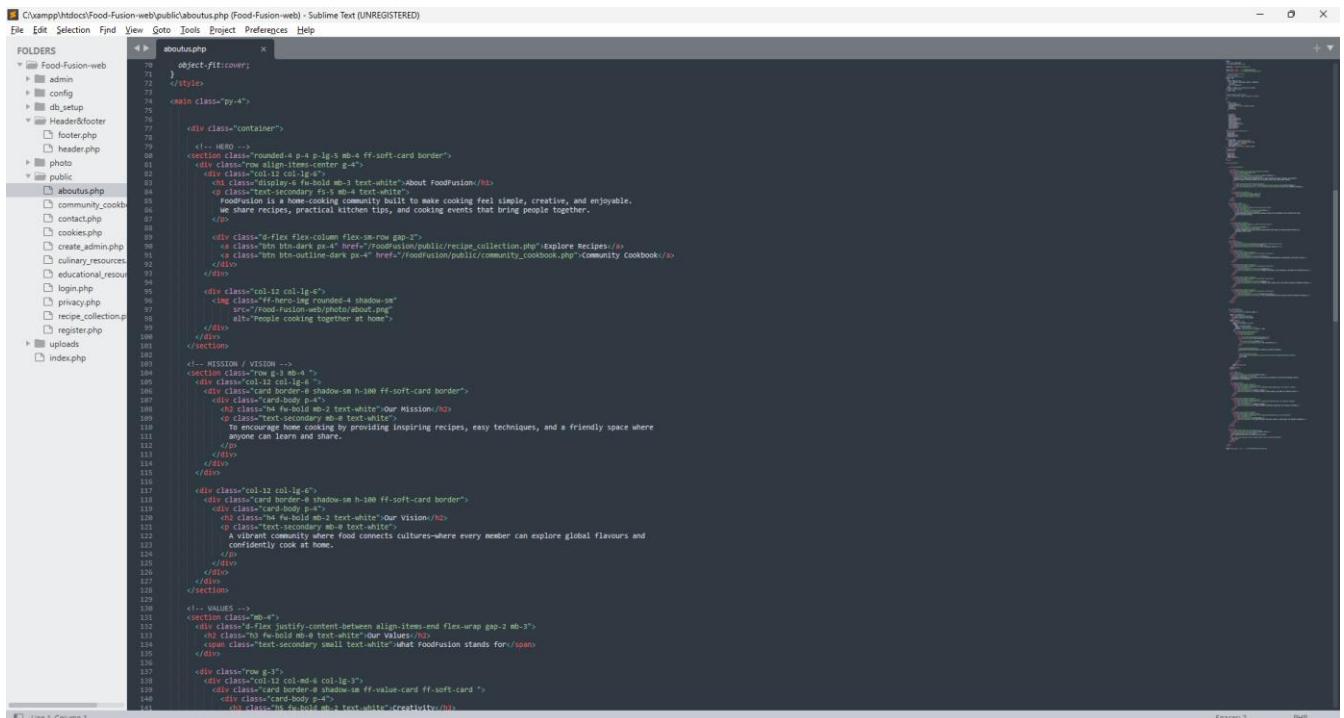


```

1 <?php
2     error_reporting(E_ALL);
3     ini_set('display_errors', 1);
4
5     $pageTitle = "FoodFusion | About Us";
6
7     require_once __DIR__ . '/../config/conn.php';
8     require_once __DIR__ . '/../headers/footer/header.php';
9
10    /* ***** */
11    /* FETCH ALL CHEFS */
12    /* ***** */
13    $chefs = [];
14
15    try {
16        $stmt = $pdo->query('
17            SELECT chef_id, chef_name, country, created_at
18            FROM chefs
19            ORDER BY chef_id ASC
20        ');
21
22        $chefs = $stmt->fetchAll(PDO::FETCH_ASSOC);
23    } catch (Throwable $e) {
24        $chefs = [];
25    }
26
27
28    function htmlspecialchars($str, ENT_QUOTES, 'UTF-8') {
29        return htmlspecialchars($str, ENT_QUOTES, 'UTF-8');
30    }
31
32    <style>
33        .hero-card{
34            border-radius:10px;
35            box-shadow: 0 10px 20px rgba(0,0,0,.12);
36            border: 1px solid #ccc;
37            height:100px;
38        }
39
40        .ff-soft-card{
41            width:600px;
42            height:400px;
43            background:#f3f3f3;
44            display:flex;
45            align-items:center;
46            justify-content:center;
47            font-size:12px;
48            padding:10px;
49            color:#888888;
50        }
51
52        /* inline only (no external css) */
53        .ff-hero-img{
54            width:100px;
55            max-height:300px;
56            object-fit:cover;
57        }
58        .ff-soft-card{
59            background: radial-gradient(155, 255, 205, 10);
60            background: radial-gradient(155, 255, 205, 10);
61            border-radius: 10px;
62            box-shadow: 0 10px 30px rgba(0,0,0,.15);
63        }
64        .ff-soft-card{
65            height:400px;
66        }
67        .ff-soft-card{
68            width:100px;
69            height:220px;
70            object-fit:cover;
71        }
72    </style>

```

Figure 3.18



```

1 <?php
2     object-fit:cover;
3 }
4 </style>
5
6 <main class="py-4">
7
8     <div class="container">
9
10        <!-- HERO -->
11        <section class="rounded-4 p-4 g-lg-5 mb-4 ff-soft-card border">
12            <div class="row align-items-center g-4">
13                <div class="display-4 fw-bold mb-3 text-white">About FoodFusion</div>
14                <p class="text-secondary fs-5 mb-4 text-white">We believe that cooking can be simple, creative, and enjoyable. We share recipes, practical kitchen tips, and cooking events that bring people together.</p>
15            </div>
16            <div class="d-flex flex-column flex-sm-row gap-2">
17                <a class="btn btn-dark px-4" href="/foodfusion/public/recipe_collection.php">Explore Recipes</a>
18                <a class="btn btn-outline-dark px-4" href="/foodfusion/public/community_cookbook.php">Community Cookbook</a>
19            </div>
20        </div>
21    </section>
22
23    <!-- MISSION / VISION -->
24    <section class="row g-4 align-items-center mb-4">
25        <div class="col-12 col-lg-6">
26            <div class="card border-0 shadow-sm h-100 ff-soft-card border">
27                <div class="row g-2 align-items-center justify-content-between">
28                    <div class="mb-2 text-white">Our Mission</div>
29                    <p class="text-secondary mb-2 text-white">To encourage home cooking by providing inspiring recipes, easy techniques, and a friendly space where people can learn and share.</p>
30                </div>
31            </div>
32        </div>
33        <div class="col-12 col-lg-6">
34            <div class="card border-0 shadow-sm h-100 ff-soft-card border">
35                <div class="row g-2 align-items-center justify-content-between">
36                    <div class="mb-2 text-white">Our Vision</div>
37                    <p class="text-secondary mb-2 text-white">A vibrant community where food connects cultures—where every member can explore global flavours and confidently cook at home.</p>
38                </div>
39            </div>
40        </div>
41    </section>
42
43    <!-- VALUES -->
44    <section class="mb-4">
45        <div class="d-flex justify-content-between align-items-end flex-wrap gap-2 mb-3">
46            <div class="col-6 text-align-center">
47                <div class="text-primary mb-2 text-white">Our Values</div>
48                <p class="text-secondary small text-white">What FoodFusion stands for:</p>
49            </div>
50        </div>
51    </section>
52
53    <div class="row g-3">
54        <div class="col-6 col-md-4 col-lg-3">
55            <div class="card border-0 shadow-sm ff-value-card ff-soft-card">
56                <div class="card-body p-4">
57                    <div class="text-primary mb-2 text-white">Creativity</div>
58                </div>
59            </div>
60        </div>
61    </div>

```

Figure 3.19

C:\xampp\htdocs\Food-Fusion-web\public\aboutus.php (Food-Fusion-web) - Sublime Text (UNREGISTERED)

```

File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
  Food-Fusion-web
    admin
    config
    db_setup
  Header/Footer
    footer.php
    header.php
  photo
  public
    aboutus.php
      community_cookbook.php
      contact.php
      cookies.php
      create_admin.php
      culinary_resources.php
      educational_resources.php
      login.php
      privacy.php
      recipe_collection.php
      register.php
  uploads
  index.php

aboutus.php
1  <?php
2  object-fit:cover;
3  }>/>;
4
5  main class="py-4">
6
7  <div class="container">
8
9    <!-- HERO -->
10   <section class="rounded-4 p-4 lg-5 mb-4 ff-soft-card border">
11     <div class="col-12 col-lg-6">
12       <h2 class="display-6 fw-bold mb-3 text-white">About FoodFusion</h2>
13       <p class="text-white mb-4">FoodFusion is a home-cooking community built to make cooking feel simple, creative, and enjoyable. We share recipes, practical kitchen tips, and cooking events that bring people together.</p>
14
15       
16       <a href="FoodFusion/public/recipe_collection.php" class="btn btn-dark px-4" style="background-color: #f0f0f0; border: 1px solid #ccc; border-radius: 5px; padding: 5px 10px; margin-top: 10px; font-weight: bold; color: black; text-decoration: none; transition: all 0.3s ease; text-decoration: underline;">Explore Recipes
17       <a href="FoodFusion/public/community_cookbook.php" class="btn btn-outline-dark px-4" style="border: 1px solid #ccc; border-radius: 5px; padding: 5px 10px; margin-top: 10px; font-weight: bold; color: black; text-decoration: none; transition: all 0.3s ease; text-decoration: underline;">Community Cookbook
18     </div>
19   </section>
20
21   <!-- VISION -->
22   <section class="row p-3 mb-4">
23     <div class="col-12 col-lg-6">
24       <div class="card border-0 shadow-sm h-100 ff-soft-card border">
25         <div class="card-body p-4">
26           <h3 class="mb-2 text-white fw-bold">Our Mission</h3>
27           <p class="text-white mb-2">To encourage home cooking by providing inspiring recipes, easy techniques, and a friendly space where anyone can learn and share.</p>
28         </div>
29       </div>
30     </div>
31   </section>
32
33   <div class="col-12 col-lg-6">
34     <div class="card border-0 shadow-sm h-100 ff-soft-card border">
35       <div class="card-body p-4">
36         <h3 class="mb-2 text-white fw-bold">Our Vision</h3>
37         <p class="text-white mb-2">FoodFusion is a vibrant community where food connects cultures—where every member can explore global flavours and confidently cook at home.</p>
38       </div>
39     </div>
40   </div>
41
42   <!-- VALUES -->
43   <section class="row g-3">
44     <div class="col-12 col-md-4 col-lg-3">
45       <div class="card border-0 shadow-sm ff-value-card ff-soft-card">
46         <div class="card-body p-4">
47           <h3 class="mb-2 text-white fw-bold">Our Values</h3>
48           <p class="text-secondary small text-white">What FoodFusion stands for:</p>
49         </div>
50     </div>
51   </section>
52
53   <!-- TEAM -->
54   <section class="mb-4">
55     <h2 class="mb-2 text-white">Meet the Team</h2>
56     <p class="text-secondary mb-3 text-black">FoodFusion is maintained by a small team of food lovers and developers who care about learning, sharing, and building a safe community.</p>
57
58     <div class="row g-3">
59       <div class="col-12 col-md-4 col-lg-4">
60         <div class="card border-0 shadow-sm h-100 ff-team-ing rounded-top">
61           
62           <div class="card-body p-4">
63             <h3 class="mb-2 fw-bold">Founder / Editor</h3>
64             <p class="text-secondary mb-0">Curates recipes, checks quality, and keeps the community active.</p>
65           </div>
66         </div>
67       </div>
68       <div class="col-12 col-md-4 col-lg-4">
69         <div class="card border-0 shadow-sm h-100 ff-team-ing rounded-top">
70           
71           <div class="card-body p-4">
72             <h3 class="mb-2 fw-bold">Community Manager</h3>
73             <p class="text-secondary mb-0">Supports members, moderates submissions, and responds to feedback.</p>
74           </div>
75         </div>
76       </div>
77       <div class="col-12 col-md-4 col-lg-4">
78         <div class="card border-0 shadow-sm h-100 ff-team-ing rounded-top">
79           
80           <div class="card-body p-4">
81             <h3 class="mb-2 fw-bold">Web Developer</h3>
82             <p class="text-secondary mb-0">Builds features like login security, recipe pages, and database integration.</p>
83           </div>
84         </div>
85       </div>
86     </div>
87   </section>
88
89   <!-- CTA -->
90   <div class="text-center mt-5 ff-soft-card p-4">
91     <h3 class="mb-2 fw-bold text-white">Want to Become a Chef?</h3>
92     <p class="text-white mb-2">Join FoodFusion and share your recipes with the world.</p>
93     <button class="btn btn-dark" data-bs-toggle="modal" data-bs-target="#joinModal">Sign Up Now</button>
94   </div>
95
96   </main>
97
98   <?php require_once __DIR__ . '/../../header/footer.php'; ?>
99

```

Figure 3.20

C:\xampp\htdocs\Food-Fusion-web\public\aboutus.php (Food-Fusion-web) - Sublime Text (UNREGISTERED)

```

File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
  Food-Fusion-web
    admin
    config
    db_setup
  Header/Footer
    footer.php
    header.php
  photo
  public
    aboutus.php
      community_cookbook.php
      contact.php
      cookies.php
      create_admin.php
      culinary_resources.php
      educational_resources.php
      login.php
      privacy.php
      recipe_collection.php
      register.php
  uploads
  index.php

aboutus.php
1  <?php
2  object-fit:cover;
3  }>/>;
4
5  main class="py-4">
6
7  <div class="container">
8
9    <!-- HERO -->
10   <section class="rounded-4 p-4 lg-5 mb-4 ff-soft-card border">
11     <div class="col-12 col-lg-6">
12       <h2 class="display-6 fw-bold mb-3 text-white">About FoodFusion</h2>
13       <p class="text-white mb-4">FoodFusion is a home-cooking community built to make cooking feel simple, creative, and enjoyable. We share recipes, practical kitchen tips, and cooking events that bring people together.</p>
14
15       
16       <a href="FoodFusion/public/recipe_collection.php" class="btn btn-dark px-4" style="background-color: #f0f0f0; border: 1px solid #ccc; border-radius: 5px; padding: 5px 10px; margin-top: 10px; font-weight: bold; color: black; text-decoration: none; transition: all 0.3s ease; text-decoration: underline;">Explore Recipes
17       <a href="FoodFusion/public/community_cookbook.php" class="btn btn-outline-dark px-4" style="border: 1px solid #ccc; border-radius: 5px; padding: 5px 10px; margin-top: 10px; font-weight: bold; color: black; text-decoration: none; transition: all 0.3s ease; text-decoration: underline;">Community Cookbook
18     </div>
19   </section>
20
21   <!-- VISION -->
22   <section class="row p-3 mb-4">
23     <div class="col-12 col-lg-6">
24       <div class="card border-0 shadow-sm h-100 ff-soft-card border">
25         <div class="card-body p-4">
26           <h3 class="mb-2 text-white fw-bold">Our Mission</h3>
27           <p class="text-white mb-2">To encourage home cooking by providing inspiring recipes, easy techniques, and a friendly space where anyone can learn and share.</p>
28         </div>
29       </div>
30     </div>
31   </section>
32
33   <div class="col-12 col-lg-6">
34     <div class="card border-0 shadow-sm h-100 ff-soft-card border">
35       <div class="card-body p-4">
36         <h3 class="mb-2 text-white fw-bold">Our Vision</h3>
37         <p class="text-white mb-2">FoodFusion is a vibrant community where food connects cultures—where every member can explore global flavours and confidently cook at home.</p>
38       </div>
39     </div>
40   </div>
41
42   <!-- VALUES -->
43   <section class="row g-3">
44     <div class="col-12 col-md-4 col-lg-3">
45       <div class="card border-0 shadow-sm ff-value-card ff-soft-card">
46         <div class="card-body p-4">
47           <h3 class="mb-2 text-white fw-bold">Our Values</h3>
48           <p class="text-secondary small text-white">What FoodFusion stands for:</p>
49         </div>
50     </div>
51   </section>
52
53   <!-- TEAM -->
54   <section class="mb-4">
55     <h2 class="mb-2 text-white">Meet the Team</h2>
56     <p class="text-secondary mb-3 text-black">FoodFusion is maintained by a small team of food lovers and developers who care about learning, sharing, and building a safe community.</p>
57
58     <div class="row g-3">
59       <div class="col-12 col-md-4 col-lg-4">
60         <div class="card border-0 shadow-sm h-100 ff-team-ing rounded-top">
61           
62           <div class="card-body p-4">
63             <h3 class="mb-2 fw-bold">Founder / Editor</h3>
64             <p class="text-secondary mb-0">Curates recipes, checks quality, and keeps the community active.</p>
65           </div>
66         </div>
67       </div>
68       <div class="col-12 col-md-4 col-lg-4">
69         <div class="card border-0 shadow-sm h-100 ff-team-ing rounded-top">
70           
71           <div class="card-body p-4">
72             <h3 class="mb-2 fw-bold">Community Manager</h3>
73             <p class="text-secondary mb-0">Supports members, moderates submissions, and responds to feedback.</p>
74           </div>
75         </div>
76       </div>
77       <div class="col-12 col-md-4 col-lg-4">
78         <div class="card border-0 shadow-sm h-100 ff-team-ing rounded-top">
79           
80           <div class="card-body p-4">
81             <h3 class="mb-2 fw-bold">Web Developer</h3>
82             <p class="text-secondary mb-0">Builds features like login security, recipe pages, and database integration.</p>
83           </div>
84         </div>
85       </div>
86     </div>
87   </section>
88
89   <!-- CTA -->
90   <div class="text-center mt-5 ff-soft-card p-4">
91     <h3 class="mb-2 fw-bold text-white">Want to Become a Chef?</h3>
92     <p class="text-white mb-2">Join FoodFusion and share your recipes with the world.</p>
93     <button class="btn btn-dark" data-bs-toggle="modal" data-bs-target="#joinModal">Sign Up Now</button>
94   </div>
95
96   </main>
97
98   <?php require_once __DIR__ . '/../../header/footer.php'; ?>
99

```

Figure 3.21

About FoodFusion

FoodFusion is a home-cooking community built to make cooking feel simple, creative, and enjoyable. We share recipes, practical kitchen tips, and cooking events that bring people together.

[Explore Recipes](#)

[Community Cookbook](#)



Our Mission

To encourage home cooking by providing inspiring recipes, easy techniques, and a friendly space where anyone can learn and share.

Our Vision

A vibrant community where food connects cultures—where every member can explore global flavours and confidently cook at home.

Our Values

Creativity

We encourage experimentation, substitutions, and personal twists.

Accessibility

Simple instructions, clear categories, and options for different diets.

Community

Members share recipes, tips, and stories through the Community Cookbook.

What Foodfusion stands for

Respect for Culture

We celebrate global cuisines and give credit to authentic traditions.

Meet Our Chefs



Chef Giovanni Rossi

Italy
Passionate chef sharing authentic recipes and culinary traditions.

[View Recipes](#)



Chef Somchai Prasert

Thailand
Passionate chef sharing authentic recipes and culinary traditions.

[View Recipes](#)



Chef Arjun Sharma

India
Passionate chef sharing authentic recipes and culinary traditions.

[View Recipes](#)



Chef Maria Hernandez

Mexico
Passionate chef sharing authentic recipes and culinary traditions.

[View Recipes](#)



Chef Kenji Tanaka

Japan
Passionate chef sharing authentic recipes and culinary traditions.

[View Recipes](#)

Meet the Team

FoodFusion is maintained by a small team of food lovers and developers who care about learning, sharing, and building a safe community.



Founder / Editor

Curates recipes, checks quality, and keeps the community active.



Community Manager

Supports members, moderates submissions, and responds to feedback.



Web Developer

Builds features like login security, recipe pages, and database integration.

Want to become a chef?

Join FoodFusion and share your recipes with the world.

[Sign Up Now](#)

FOODFUSION

Thanks for stopping by FoodFusion.
Cook boldly, share generously, and come back hungry for more.

SUPPORT

Payment
Delivery
Exchange & Return
Customer support

LEGAL

Privacy Policy
Cookie Policy

CONTACT

A-101, Times Mall, Yangon
foodfusion@email.com
+95 9987730238
+95 9762007221

Figure 3.22



Figure 3.23

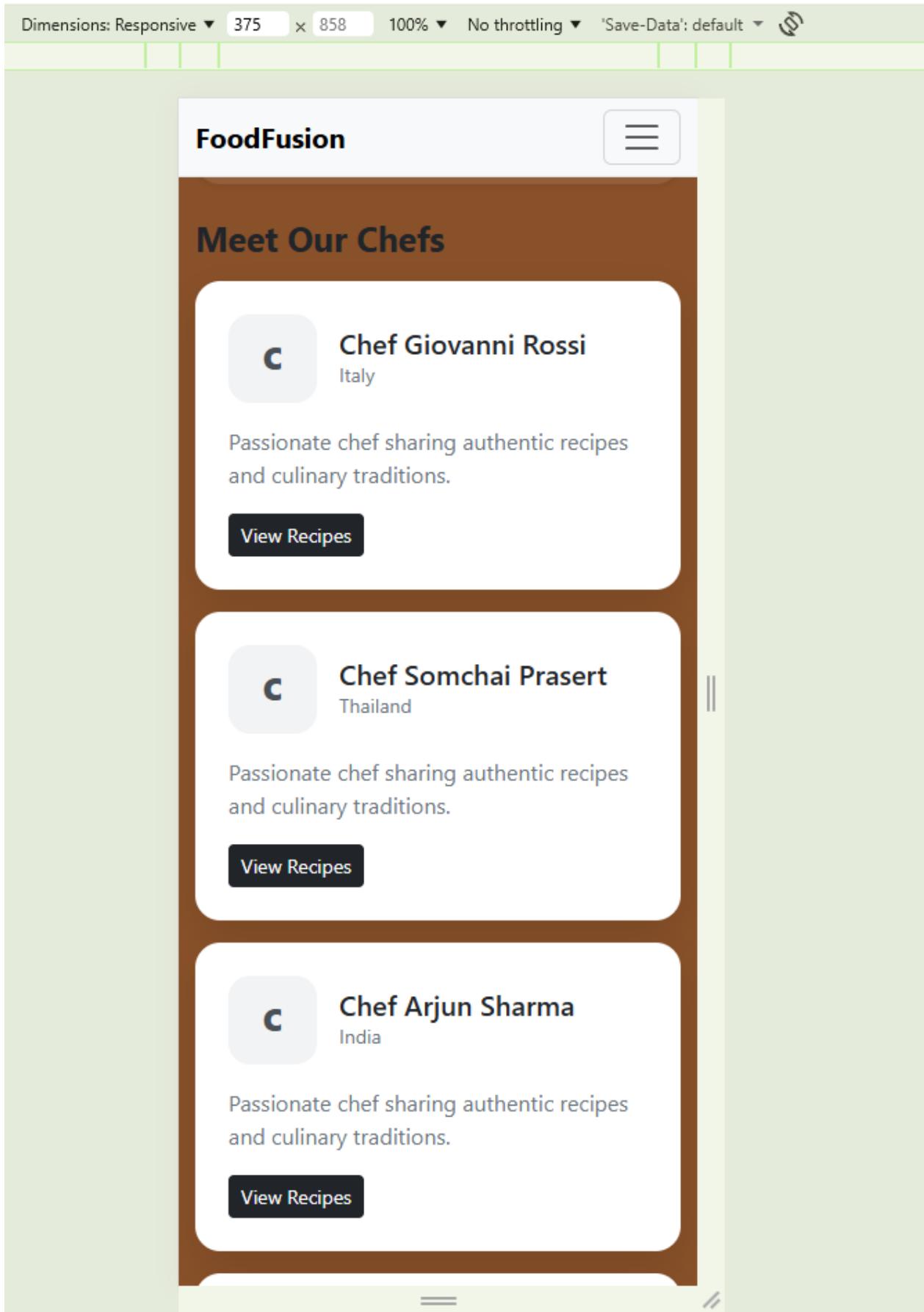


Figure 3.24

Recipe Collection (Recipe_Collection.php)

```

<?php
    require('strict_types=1');
    error_reporting(E_ALL);
    ini_set('display_errors', '1');

    //page title
    $pageTitle = "FoodFusion | Recipe Collection";
    require_once __DIR__ . '/config/config.php';
    require_once __DIR__ . '/../header/footer/header.php'; // prints html...main
    /* ..... helpers ..... */
    if (function_exists('')) {
        function htmlspecialchars($string, ENT_QUOTES, 'UTF-8') {
            return htmlspecialchars($string, ENT_QUOTES, 'UTF-8');
        }
    }

    /**
     * Normalizes stored image paths;
     * - /uploads/recipes/a.png => remove project prefix
     * - /food-fusion-web/uploads/recipes/a.png => ensure leading slash
     */
    function normalizeAsset(string $path): string {
        $path = trim($path);
        if ($path[0] != '/') return $path;
        if (preg_match('/^https?:\/\/.*\//', $path)) return $path;
        // remove any project folder prefix like /food-fusion-web/
        $path = preg_replace('/^/food-fusion-web\//', '', $path);
        if ($path[0] != '/') $path = '/' . $path;
        return $path;
    }

    /* ..... read filters (get) ..... */
    $q = trim((string)\$_GET['q'] ?? '');
    $cuisine = trim((string)\$_GET['cuisine'] ?? 'All');
    $category = trim((string)\$_GET['category'] ?? 'All');
    $difficulty = trim((string)\$_GET['difficulty'] ?? 'All');
    $chef_id = (int)\$_GET['chef_id'] ?? 0;

    $limit = 10;
    $offset = 0;

    /* ..... dropdown options ..... */
    $optCuisine = $pdo->query("SELECT DISTINCT cuisine FROM recipe_collection ORDER BY cuisine");
    $optCategory = $pdo->query("SELECT DISTINCT dietary FROM recipe_collection ORDER BY dietary");
    $optDifficulty = $pdo->query("SELECT DISTINCT difficulty FROM recipe_collection WHERE difficulty != 'All'");

    $where = [];
    $params = [];
    if ($chef_id != 0) {
        $where[] = "rc.chef_id = :chef_id";
        $params[':chef_id'] = $chef_id;
    }

    if ($q != '') {
        $where[] = "(rc.name LIKE :q OR rc.ingredients LIKE :q OR rc.description LIKE :q OR rc.recipe_type LIKE :q)";
        $params[':q'] = "%$q%";
    }

    if ($cuisine != '' || $cuisine != 'All') {
        $where[] = "rc.cuisine = :cuisine";
        $params[':cuisine'] = $cuisine;
    }

    if ($category != '' || $category != 'All') {
        $where[] = "rc.category = :category";
        $params[':category'] = $category;
    }

    if ($difficulty != '' || $difficulty != 'All') {
        $where[] = "rc.difficulty = :difficulty";
        $params[':difficulty'] = $difficulty;
    }

    /* ..... IMPORTANT: base path for your project ..... */
    $PROJECT_BASE = '/food-fusion-web'; // adjust if your folder changes

    $sql = "
        SELECT
            rc.recipe_id,
            rc.dietary,
            rc.cuisine,
            rc.category,
            rc.recipe_type,
            rc.ingredients,
            rc.description,
            c.chef_name
        FROM recipe_collection rc
        LEFT JOIN chef c ON c.chef_id = rc.chef_id
        WHERE " . implode(" AND ", $where);
    $sql .= " ORDER BY rc.created_at DESC, rc.recipe_id DESC LIMIT :limit OFFSET :offset";
    $stmt = $pdo->prepare($sql);
    $stmt->execute($params);
    $recipes = $stmt->fetchAll(PDO::FETCH_ASSOC);
    $countdown = count($recipes);
    ?>

    <?php
    style
        /* Full width shell */
        .rc-all{
            width: 100%;
            padding-left: 10px;
            padding-right: 10px;
        }
        .rc-search-card{
            border: 1px solid #e7e7e7;
            border-radius: 10px;
            background-color: #f9f9f9;
            background: #fff;
            box-shadow: 0 10px 20px rgba(0,0,0,.05);
            transition: transform .15s ease, box-shadow .15s ease;
        }
        .rc-card{
            transform: translate(-2px);
            box-shadow: 0 1px 3px rgba(0,0,0,.12);
        }
        .rc-thumb{
            width: 100px;
            height: auto;
            object-fit: cover;
            background-color: #ccc;
        }
    </style>

```

Figure 3.25

```

        .rc-card{
            transform: translate(-2px);
            box-shadow: 0 1px 3px rgba(0,0,0,.12);
        }
        .rc-thumb{
            width: 100px;
            height: auto;
            object-fit: cover;
            background-color: #ccc;
        }
    </style>

```

Figure 3.26

```

FOLDERS
Food-Fusion-web
  admin
  config
  db_setup
  Header/footer
    footer.php
    header.php
  photo
  public
    aboutus.php
    community_cookbook.php
    contact.php
    cookies.php
    create_admin.php
    culinary_resources.php
    educational_resources.php
    login.php
    privacy.php
    recipe_collection.php
    register.php
  uploads
index.php

recipe_collection.php

142 .rc-body {
143   padding: 14px 14px 12px;
144   display: flex;
145   flex-direction: column;
146   gap: 10px;
147 }
148 .rc-title {
149   font-weight: bold;
150   margin: 0;
151   line-height: 1.2;
152   font-size: 1em;
153 }
154 .rc-meta {
155   font-size: .8rem;
156   color: #c5c5c5;
157 }
158 .rc-desc {
159   font-size: .7rem;
160   border-radius: 999px;
161   padding: 10px .5rem;
162 }
163 .rc-kv {
164   font-size: .8rem;
165   color: #333;
166 }
167 .rc-kv-b {
168   color: #111;
169 }
170 .rc-ingredients {
171   font-size: .8rem;
172   color: #408585;
173   line-height: 1.35;
174 }
175 .rc-website {
176   display: -webkit-box;
177   display: -ms-flexbox;
178   flex-direction: vertical;
179   overflow: hidden;
180 }
181 .rc-website .rc-website-box {
182   width: 100%;
183   height: 100%;
184   -webkit-line-clamp: 3; /* Current main support */
185   line-clamp: 3; /* standard (lint-friendly / future) */
186 }
187 .rc-desc .rc-desc-short {
188   display: -webkit-box;
189   display: -ms-flexbox;
190   flex-direction: vertical;
191   overflow: hidden;
192 }
193 .rc-desc .rc-desc-short .rc-desc-short-item {
194   -webkit-line-clamp: 3; /* short preview */
195   line-clamp: 3; /* standard */
196 }
197 .rc-desc .rc-desc-full {
198   display: none; /* toggled by JS */
199   white-space: pre-line;
200 }
201 .rc-actions {
202   display: flex;
203   gap: 8px;
204   align-items: center;
205   margin-top: 2px;
206 }
207 .rc-actions .rc-action {
208   border-radius: 999px;
209 }
210 .rc-empty {
211   border: 1px dashed #ccc;
212   height: 10px;

```

Figure 3.27

```

FOLDERS
Food-Fusion-web
  admin
  config
  db_setup
  Header/footer
    footer.php
    header.php
  photo
  public
    aboutus.php
    community_cookbook.php
    contact.php
    cookies.php
    create_admin.php
    culinary_resources.php
    educational_resources.php
    login.php
    privacy.php
    recipe_collection.php
    register.php
  uploads
index.php

recipe_collection.php

211 .rc-entry {
212   border: 1px dashed #ccc;
213   border-radius: 10px;
214   padding: 20px;
215   background: #f0f0f0;
216 }
217 
```

218 <div class="container-fluid py-4 rc-shell">
219 <div> SEARCH / FILTER </div>
220 <section class="rc-search-card p-4 p-lg-4">
221 <div class="d-flex flex-column flex-md-row align-items-md-start justify-content-between gap-3">
222 <div class="mb-1">Recipe Collection</div>
223 <p class="text-secondary mb-0">Search for recipes by cuisine, dietary preference, and difficulty. Use "See more" to expand descriptions inline.</p>
224 </div>
225 <div class="text-secondary"> Showing 4 (int)countdown </div> recipe(s).</div>
226 </div>
227 </div>
228 <form class="mt-3" method="get" action="<?php echo \$_SERVER['REQUEST_URI']; ?>">
229 <div class="row g-3 align-items-end">
230 <div class="col-12 col-lg-4">
231 <div> Search </div>
232 <input type="text" name="q" value="<?php echo \$q; ?>" placeholder="e.g., soup, noodles, chicken">
233 </div>
234 <div class="col-12 col-md-4 col-lg-2">
235 <label class="form-label">Cuisine</label>
236 <select class="form-select" name="cuisine">
237 <option value="all" ><?php echo \$cuisine == 'All' ? 'selected' : '' ?> All</option>
238 <?php foreach (\$cuisines as \$v) :>
239 <option value=<?php echo \$v; ?>> <?php echo \$cuisine == \$v ? 'selected' : '' ?>
240 <?php endforeach; ?>
241 </select>
242 </div>
243 <div class="col-12 col-md-4 col-lg-2">
244 <label class="form-label">Dietary</label>
245 <select class="form-select" name="dietary">
246 <option value="all" ><?php echo \$dietary == 'All' ? 'selected' : '' ?> All</option>
247 <?php foreach (\$dietaires as \$v) :>
248 <option value=<?php echo \$v; ?>> <?php echo \$dietary == \$v ? 'selected' : '' ?>
249 <?php endforeach; ?>
250 </select>
251 </div>
252 </div>
253 </form>
254 </div>
255 <div class="col-12 col-lg-3 d-flex gap-2">
256 <button class="btn btn-dark w-100" type="submit">Filter</button>
257 <a class="btn btn-outline-secondary w-100" href="<?php echo \$_SERVER['REQUEST_URI']; ?>">Reset
258 </div>
259

Figure 3.28

48

```

<?php if ($count >= 0): ?>
    <div class="row g-4">
        <?php foreach ($recipes as $r): ?>
            <div class="col-12 col-md-6 col-lg-4">
                <div class="card rc-card">
                    
                        <div class="rc-meta">
                            <?php if ($r['cuisine'] != ''): ?>
                                <span>{{r['cuisine']}}</span>
                            <?php if ($r['dietary'] != ''): ?>
                                <span>{{r['dietary']}}</span>
                            <?php if ($r['difficulty'] != ''): ?>
                                <span>{{r['difficulty']}}</span>
                            <?php if ($r['type'] != ''): ?>
                                <span>{{r['type']}}</span>
                            <?php endif; ?>
                        </div>
                        <div class="rc-title mb-1"><?php if ($r['name']): ?>
                            <p>{{r['name']}}</p>
                        <?php else: ?>
                            <?php if ($r['chef_name']): ?>
                                <div>{{r['chef_name']}}</div>
                            <?php endif; ?>
                        </?php endif; ?>
                        <div class="rc-hn">
                            <?php if ($r['name']): ?>
                                <div>{{r['name']}}</div>
                            <?php else: ?>
                                <div>{{r['chef_name']}}</div>
                            <?php endif; ?>
                        </div>
                        <div class="rc-ingredients">
                            <?php if ($r['ingredients']): ?>
                                <div>{{r['ingredients']}}</div>
                            <?php endif; ?>
                        </div>
                    </div>
                    <div class="rc-desc">
                        <?php if ($desc['name'] != ''): ?>
                            <div>{{desc['name']}}</div>
                        <?php endif; ?>
                        <?php if ($desc['cuisine'] != ''): ?>
                            <div>{{desc['cuisine']}}</div>
                        <?php endif; ?>
                        <?php if ($desc['type'] != ''): ?>
                            <div>{{desc['type']}}</div>
                        <?php endif; ?>
                        <?php if ($desc['difficulty'] != ''): ?>
                            <div>{{desc['difficulty']}}</div>
                        <?php endif; ?>
                        <?php if ($desc['dietary'] != ''): ?>
                            <div>{{desc['dietary']}}</div>
                        <?php endif; ?>
                    </div>
                    <div class="rc-short">
                        <?php if ($desc['short'] != ''): ?>
                            <div>{{desc['short']}}</div>
                        <?php endif; ?>
                    </div>
                    <div class="rc-full">
                        <?php if ($desc['full'] != ''): ?>
                            <div>{{desc['full']}}</div>
                        <?php endif; ?>
                    </div>
                    <div class="rc-toggle">
                        <button type="button" class="btn btn-link p-0 mt-1 rc-toggle" data-target="#rc-grid">
                            See more
                        </button>
                    </div>
                </div>
            </div>
        </div>
    </div>
    <?php endif; ?>

```

Figure 3.29

```

<?php if ($desc['name'] != '' && mb_strlen($desc) > 100): ?>
    <button type="button" class="btn btn-link p-0 mt-1 rc-toggle" data-target="#rc-grid">
        See more
    </button>
    <?php endif; ?>
</div>
<div class="rc-section">
    <a href="#">View details</a>
    </div>
</div>
<?php endforeach; ?>
<?php endif; ?>
</div>
<?php if ($desc['short'] >= 50 && mb_strlen($desc) > 100): ?>
    <script>
        document.addEventListener('click', function(e){
            const btn = e.target.closest('.rc-toggle');
            if (!btn) return;
            const rid = btn.getAttribute('data-target');
            const short1 = wrap.querySelector('.rc-desc-short');
            const full1 = wrap.querySelector('.rc-desc-full');
            if (wrap) return;
            if (short1) {
                short1.style.display = 'block';
                full1.style.display = 'none';
                btn.textContent = 'See less';
            } else {
                full1.style.display = 'block';
                short1.style.display = 'none';
                btn.textContent = 'See less';
            }
        });
    </script>
<?php require_once __DIR__ . '/../../header&footer.php'; ?>

```

Figure 3.30

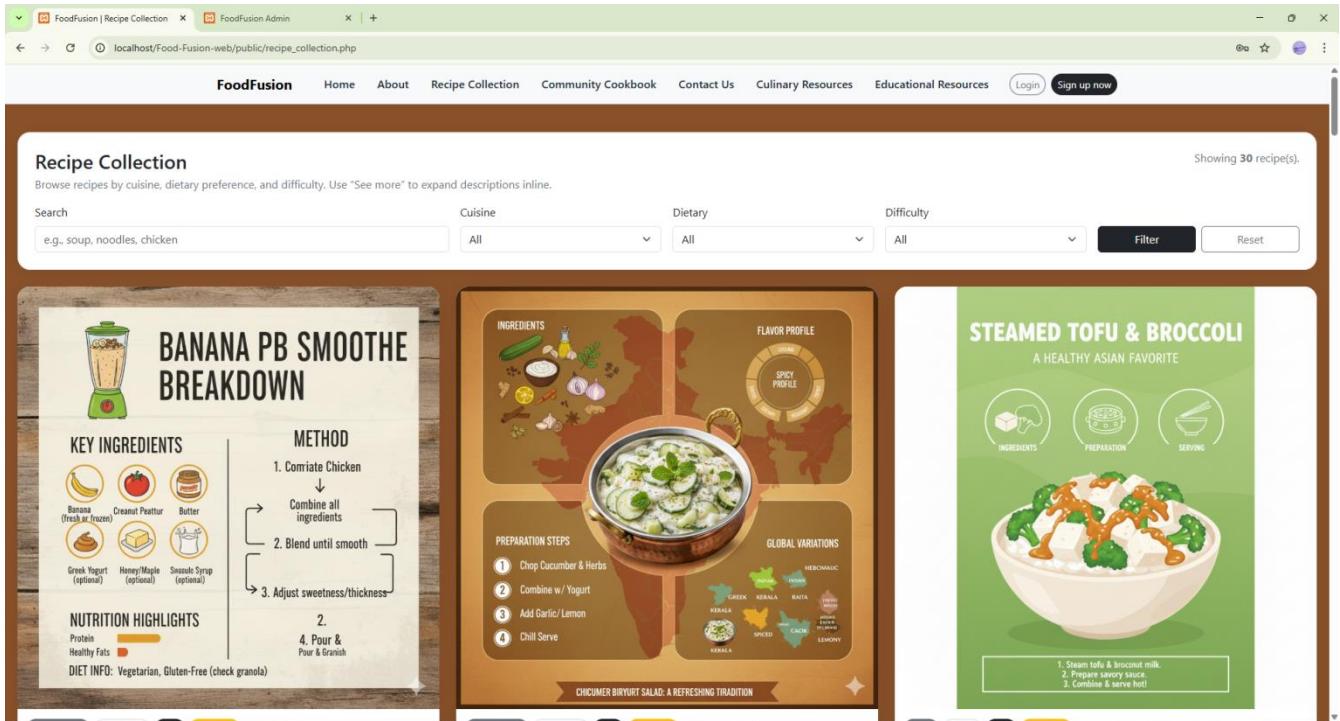


Figure 3.31

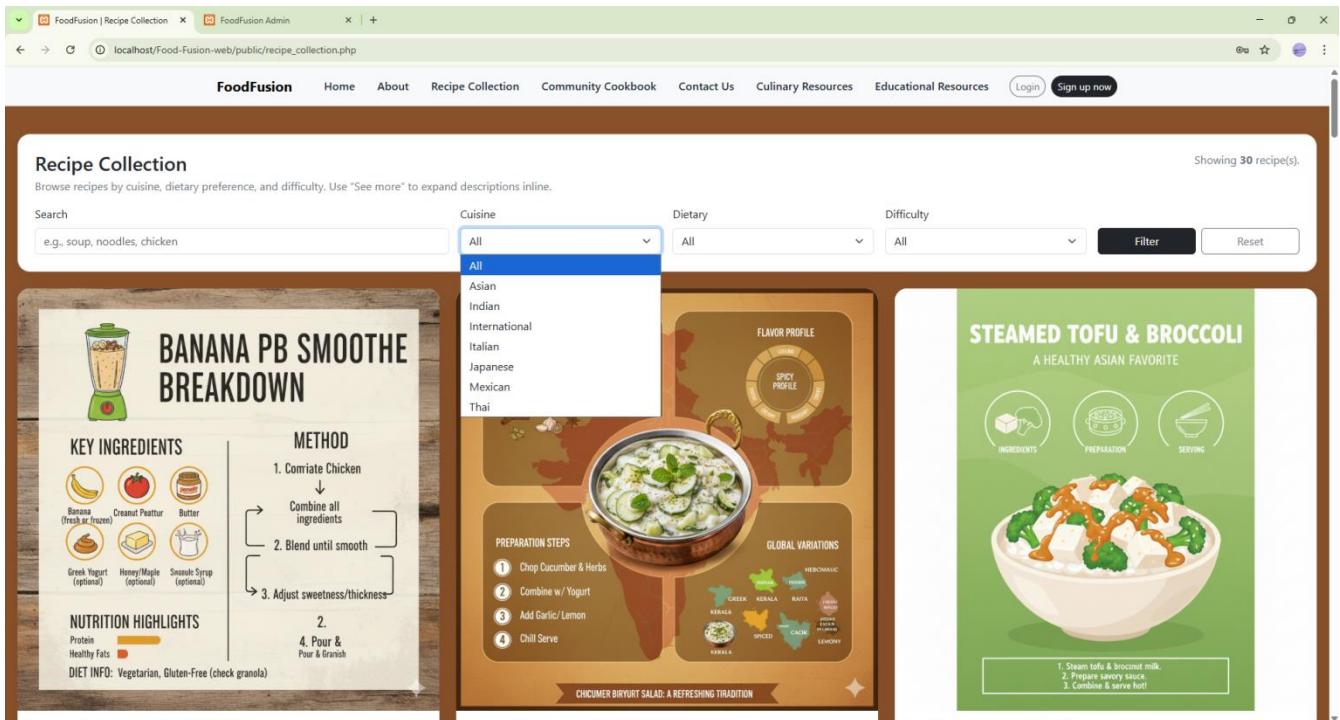


Figure 3.32

FoodFusion | Recipe Collection x FoodFusion Admin x +

localhost/Food-Fusion-web/public/recipe_collection.php

FoodFusion Home About Recipe Collection Community Cookbook Contact Us Culinary Resources Educational Resources Login Sign up now

Showing 30 recipe(s).

Search e.g. soup, noodles, chicken

Cuisine All

Dietary All

Difficulty All

Filter Reset

BANANA PB SMOOTHIE BREAKDOWN

KEY INGREDIENTS

- Banana (fresh or frozen)
- Creamy Peanut Butter
- Butter
- Greek Yogurt (optional)
- Honey/Maple (optional)
- Snooze Syrup (optional)

NUTRITION HIGHLIGHTS

- Protein
- Healthy Fats

DIET INFO: Vegetarian, Gluten-Free (check granola)

METHOD

1. Combiate Chicken
2. Blend until smooth
3. Adjust sweetness/thickness
4. Pour & Pour & Granish

INGREDIENTS

SPICY PROFILE

PREPARATION STEPS

1. Chop Cucumber & Herbs
2. Combine w/ Yogurt
3. Add Garlic/ Lemon
4. Chill Serve

GLOBAL VARIATIONS

CHICUMER BIRYURT SALAD: A REFRESHING TIRADITION

STEAMED TOFU & BROCCOLI

A HEALTHY ASIAN FAVORITE

INGREDIENTS

PREPARATION

SERVING

1. Steam tofu & brocnut milk.
2. Prepare savory sauce.
3. Combine & serve hot!

Figure 3.33

FoodFusion | Recipe Collection x FoodFusion Admin x +

localhost/Food-Fusion-web/public/recipe_collection.php

FoodFusion Home About Recipe Collection Community Cookbook Contact Us Culinary Resources Educational Resources Login Sign up now

Showing 30 recipe(s).

Search e.g. soup, noodles, chicken

Cuisine All

Dietary All

Difficulty All

Easy

Hard

Medium

Filter Reset

BANANA PB SMOOTHIE BREAKDOWN

KEY INGREDIENTS

- Banana (fresh or frozen)
- Creamy Peanut Butter
- Butter
- Greek Yogurt (optional)
- Honey/Maple (optional)
- Snooze Syrup (optional)

NUTRITION HIGHLIGHTS

- Protein
- Healthy Fats

DIET INFO: Vegetarian, Gluten-Free (check granola)

METHOD

1. Combiate Chicken
2. Blend until smooth
3. Adjust sweetness/thickness
4. Pour & Pour & Granish

INGREDIENTS

SPICY PROFILE

PREPARATION STEPS

1. Chop Cucumber & Herbs
2. Combine w/ Yogurt
3. Add Garlic/ Lemon
4. Chill Serve

GLOBAL VARIATIONS

CHICUMER BIRYURT SALAD: A REFRESHING TIRADITION

STEAMED TOFU & BROCCOLI

A HEALTHY ASIAN FAVORITE

INGREDIENTS

PREPARATION

SERVING

1. Steam tofu & brocnut milk.
2. Prepare savory sauce.
3. Combine & serve hot!

Figure 3.34

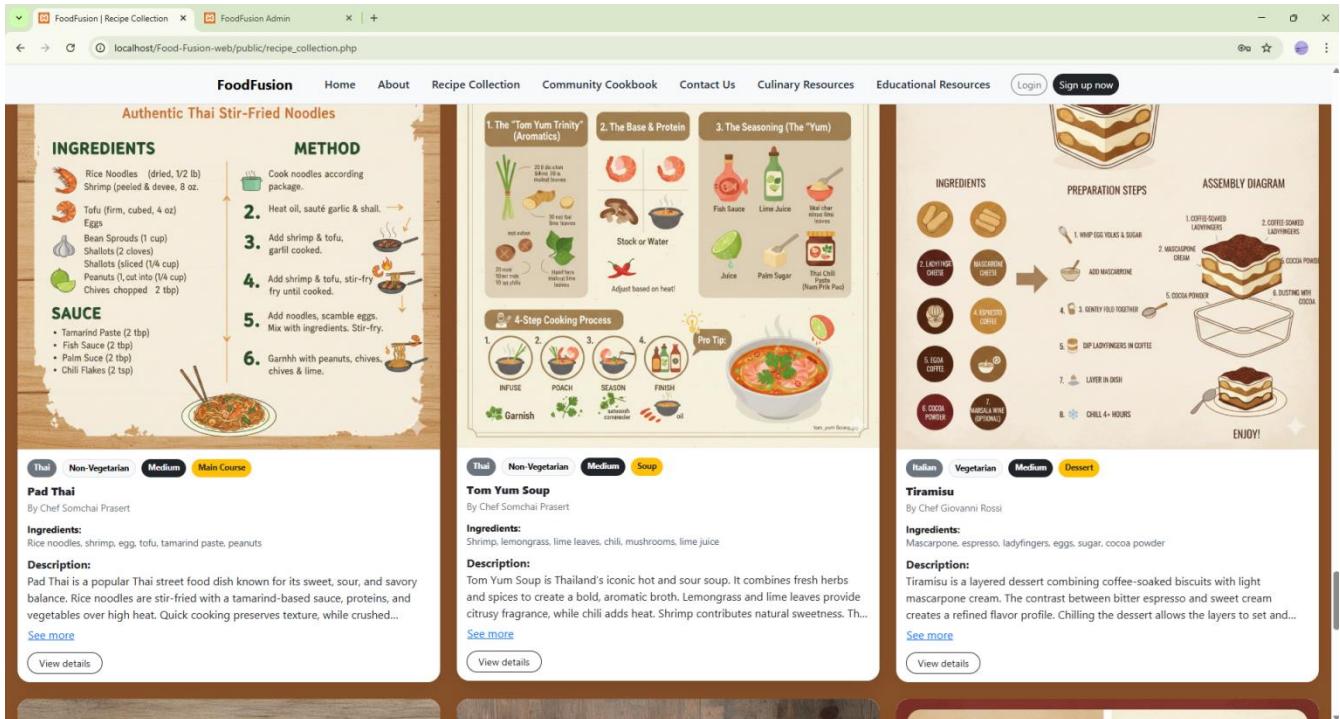


Figure 3.35

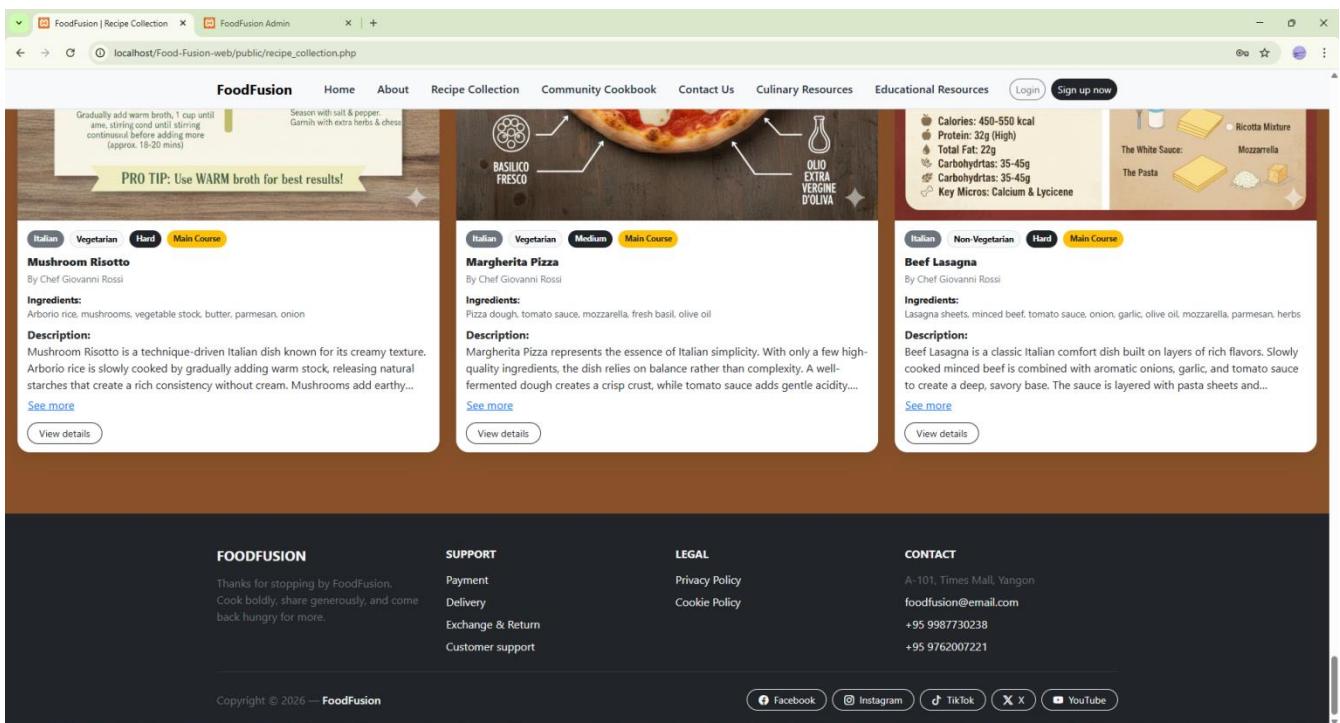


Figure 3.36

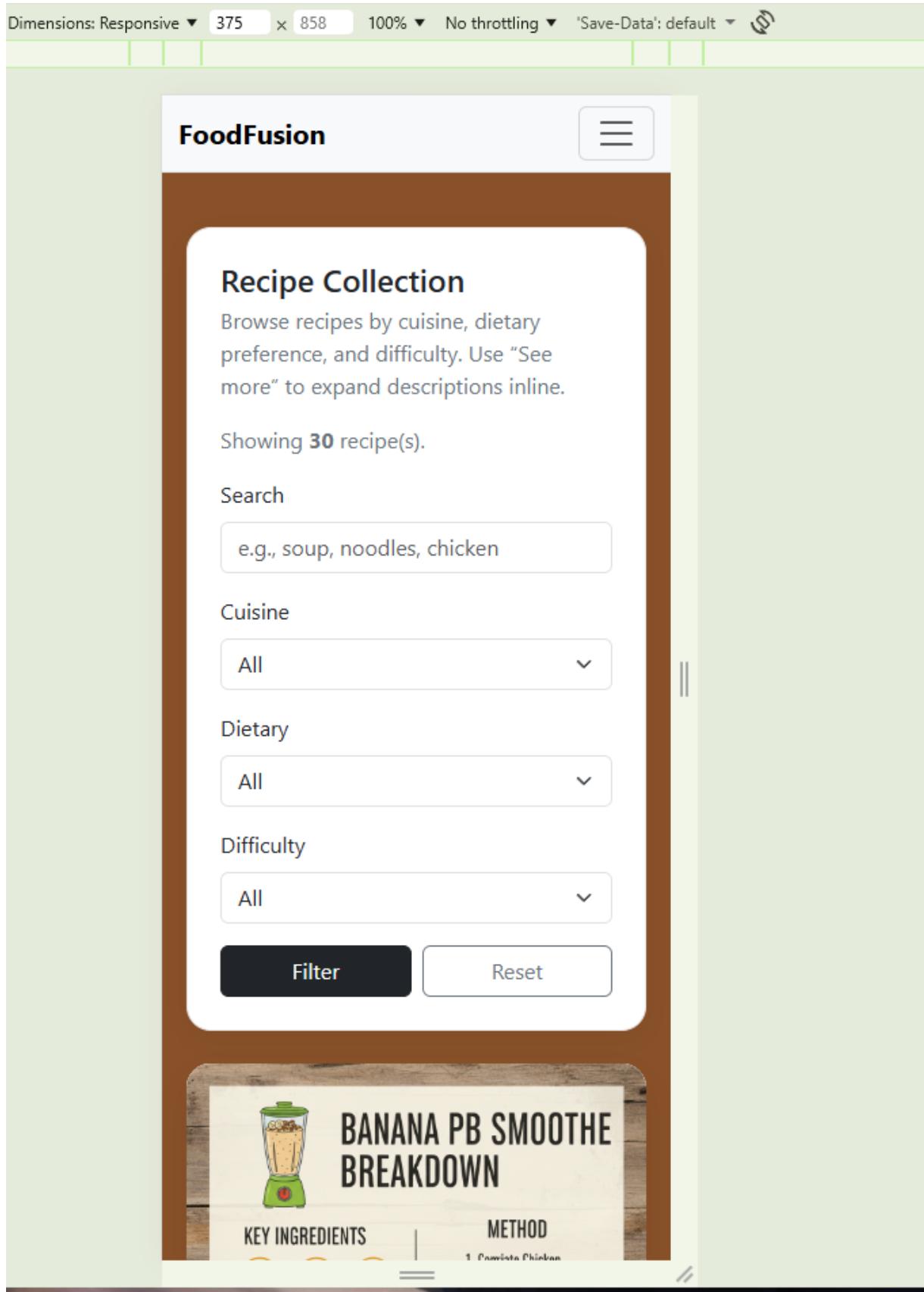


Figure 3.37

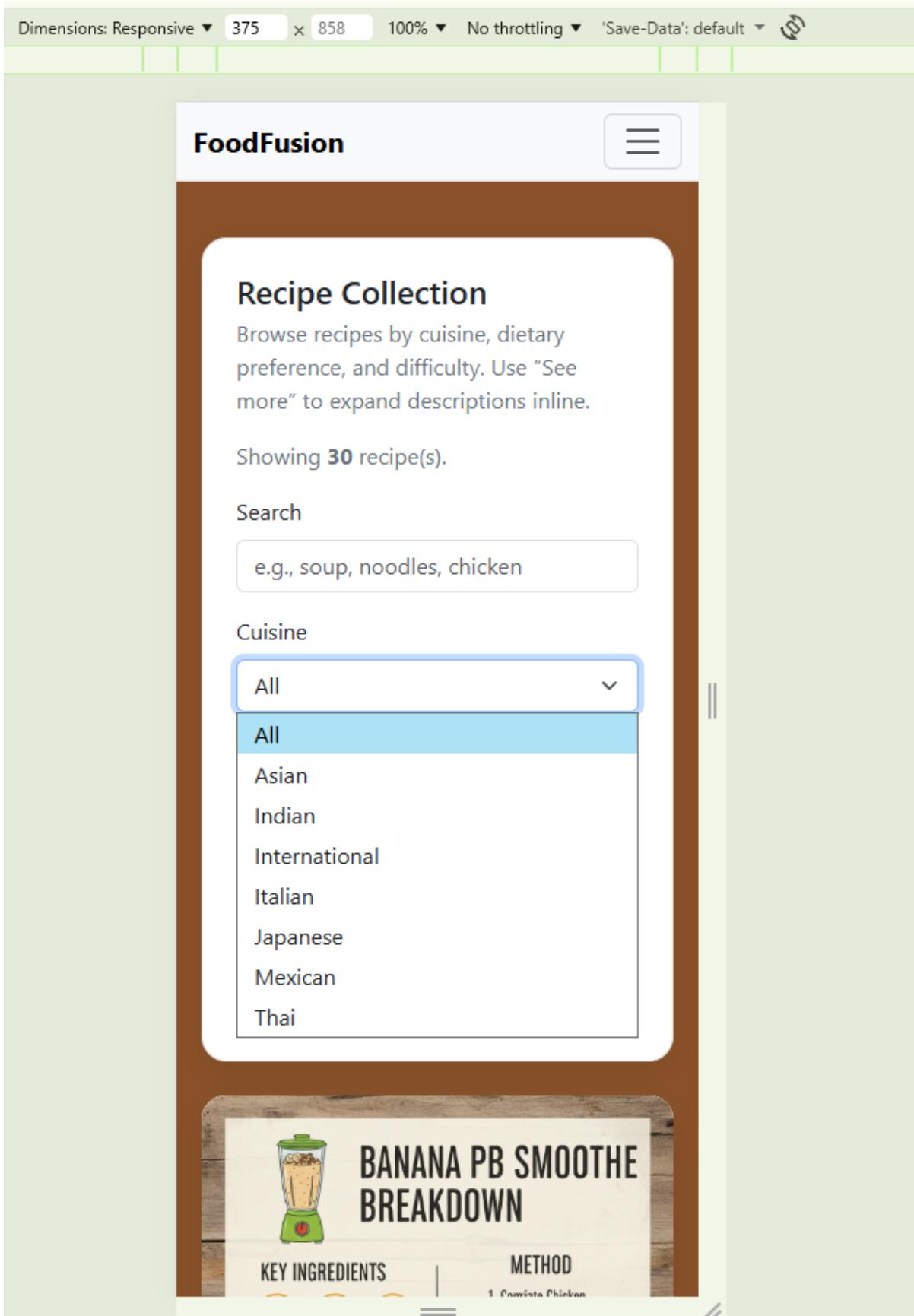


Figure 3.38

Community Cookbook (Community_Cookbook.php)

```

<?php
define('strict_types',1);
error_reporting(E_ALL);
ini_set('display_errors','1');

if (session_status() === PHP_SESSION_NONE) {
    session_start();
}

require_once __DIR__ . '/config/auth.php'; // is_logged_in(), require_login(), current_user_id(), current_user_role()
if (file_exists(__DIR__ . '/config/auth_actions.php')) {
    require_once __DIR__ . '/config/auth_actions.php'; // handle header login/logout forms BEFORE output (if you use it)
}
if (file_exists(__DIR__ . '/config/admin_actions.php')) {
    require_once __DIR__ . '/config/admin_actions.php'; // optional is_admin()
}

/* ===== */
PAGE CONFIG
/* ===== */
$pageTitle = "Food-Fusion-web | Community Cookbook";
$PROJECT_BASE = define('PROJECT_BASE', __DIR__ . '/Food-Fusion-web');

$PROJECT_BASE = define('PROJECT_BASE', __DIR__ . '/Food-Fusion-web');

/* ===== */
CONSTANTS
/* ===== */
$MAX_BYTES = 20 * 1024 * 1024; // 20MB
$UPLOAD_DIR = __DIR__ . '/uploads/community/';
$UPLOAD_URL_PREFIX = $PROJECT_BASE . '/uploads/community/';

$PUBLIC_APPROVED_ONLY = true; // public sees only approved
$CHEF_AUTO_APPROVE = true; // chef recipes auto approved

if (!is_dir($UPLOAD_DIR)) {
    mkdir($UPLOAD_DIR, 0777, true);
}

/* ===== */
HELPERS
/* ===== */
if (function_exists('curl')) {
    function curl_execor($url) { return httpspeciecurl($url, HTTP_QUOTES, 'UTF-8'); }
}

function csrf_token(): string {
    if (!empty($_SESSION['csrf_cc'])) {
        $_SESSION['csrf_cc'] = bin2hex(random_bytes(32));
    }
    return (string)$_SESSION['csrf_cc'];
}

function csrf_check(): void {
    if (empty($_POST['csrf_cc'])) {
        if (!empty($_SESSION['csrf_cc'])) || (hash_equals((string)$_SESSION['csrf_cc'], $_POST['csrf_cc'])) {
            http_response_code(403);
            exit("CSRF token mismatch.");
        }
    }
}

function flash_set(string $type, string $msg): void {
    $_SESSION['flash_cc'] = ['type' => $type, 'msg' => $msg];
}

function flash_get(): array {
    if (!empty($_SESSION['flash_cc'])) return null;
    if (!empty($_SESSION['flash_cc'])) return $_SESSION['flash_cc'];
    unset($_SESSION['flash_cc']);
    return [];
}

function redirect_to(string $url): void {
    header("location: {$url}");
    exit();
}

function abs_url(string $base, array $qs = []): string {
    if (!empty($qs)) return $base . '?' . http_build_query($qs);
    return $base . '?';
}

function mb_trim(string $s): string {
    return trim((string)$s);
}

function is_admin_user($pdo): bool {
    // prefer admin_auth helper if exists
    if (function_exists('is_admin')) {
        try { return (bool)is_admin(); } catch (Throwable $e) { /* ignore */ }
    }
    return false;
}

// fallback to user.role == 'admin'
if (!is_logged_in()) return false;
try {
    $role = strToLower(trim((string)current_user_role($pdo)));
    return $role == 'admin';
} catch (Throwable $e) {
    return false;
}

if (!is_logged_in()) return false;

$uid = (int)current_user_id();
if ((int)$uid < 0) || !is_valid($uid) return true;

if (!is_admin_user($pdo)) return true;

return false;
}

/* ===== */
ROUTES
/* ===== */
$THIS_PAGE = $PROJECT_BASE . '/public/community_cookbook.php';

/* ===== */
POST ACTIONS (PHP)
/* ===== */
- community actions use cc_action to avoid conflict with auth_actions.php (login/logout)
/* ===== */
if (G_SERVER[REQUEST_METHOD] === 'POST' && isset($_POST['cc_action'])) {
    $ccaction = (string)$_POST['cc_action'] ?? '';
    if ($ccaction === '') {
        http_error();
    }
}

```

Figure 3.39

```

function flash_set(string $type, string $msg): void {
    $_SESSION['flash_cc'] = ['type' => $type, 'msg' => $msg];
}

function flash_get(): array {
    if (!empty($_SESSION['flash_cc'])) return null;
    if (!empty($_SESSION['flash_cc'])) return $_SESSION['flash_cc'];
    unset($_SESSION['flash_cc']);
    return [];
}

function redirect_to(string $url): void {
    header("location: {$url}");
    exit();
}

function abs_url(string $base, array $qs = []): string {
    if (!empty($qs)) return $base . '?' . http_build_query($qs);
    return $base . '?';
}

function mb_trim(string $s): string {
    return trim((string)$s);
}

function is_admin_user($pdo): bool {
    // prefer admin_auth helper if exists
    if (function_exists('is_admin')) {
        try { return (bool)is_admin(); } catch (Throwable $e) { /* ignore */ }
    }
    return false;
}

// fallback to user.role == 'admin'
if (!is_logged_in()) return false;
try {
    $role = strToLower(trim((string)current_user_role($pdo)));
    return $role == 'admin';
} catch (Throwable $e) {
    return false;
}

if (!is_logged_in()) return false;

$uid = (int)current_user_id();
if ((int)$uid < 0) || !is_valid($uid) return true;

if (!is_admin_user($pdo)) return true;

return false;
}

function can_view_post($uid, array $post): bool {
    if (!is_logged_in()) return false;
    if ($status !== 'approved') return false;
    if ($status === 'approved') return true;
    if (!is_logged_in()) return false;
    if ($uid != (int)current_user_id()) return false;
    if ((int)$uid < 0) || !is_valid($uid) return true;
    if (!is_admin_user($pdo)) return true;
    if ($ccaction === '') return false;
    if ($ccaction === 'view') {
        http_error();
    }
}

```

Figure 3.40

```

124 // community_cookbook.php
125 =====
126 $THIS_PAGE = $PROJECT_BASE . '/public/community_cookbook.php';
127
128 /* POST ACTIONS (PMG)
129  * - community actions use cc_action to avoid conflict with auth_actions.php (login/logout)
130  */
131
132 if ($HTTP_SERVER[REQUEST_METHOD] === 'POST' && isset($_POST['cc_action'])) {
133     $ccaction = (string) $_POST['cc_action'];
134 }
135 if ($ccaction === '') {
136     die('no action');
137 }
138
139 /* -----
140  * CREATE POST (login only)
141  */
142 if ($ccaction === 'create_post') {
143     require_login();
144
145     $role = strtolower(trim((string)current_user_role($ipdo))); // user/chef/admin
146     $isadmin = is_admin_user($ipdo);
147
148     $postkind = (string)($_POST['post_kind'] ?? 'user_post'); // user_post or chef_recipe
149
150     if ($role === 'chef' || $isadmin === true) {
151         $postkind = 'user_post';
152     } else {
153         if ($isadmin === true) {
154             $postkind = 'user_post';
155         }
156     }
157
158     $title = mb_trim($_POST['title'] ?? '');
159     $content = mb_trim($_POST['content'] ?? '');
160
161     if ($title === '' || $content === '') {
162         flash_set('danger', 'Title and content are required.');
163         redirect_to_page_url($THIS_PAGE, [ 'open' => '1' ]);
164     }
165     if (mb_strlen($title) > 200) {
166         flash_set('danger', 'Title is too long (max 200 chars).');
167         redirect_to_page_url($THIS_PAGE, [ 'open' => '1' ]);
168     }
169
170     // cover image upload (optional)
171     $coverimage = null;
172     if (!empty($_FILES['cover_image']['name'])) {
173         $size = (int)($_FILES['cover_image']['size'] ?? 0);
174         if ($size <= 5000000) {
175             if ($size > 10000000) {
176                 flash_set('danger', 'Image too large. Max: ' . (int)(SMAX_BYTES / 1024) . ' KB.');
177                 redirect_to_page_url($THIS_PAGE, [ 'open' => '1' ]);
178             }
179
180             $ext = mb strtolower(mb_getinfo((string) $_FILES['cover_image']['name'], PATHINFO_EXTENSION));
181             if ($ext === 'jpg' || $ext === 'png') {
182                 if (flash_set('danger', 'Image type not allowed. Use jpg/png/webp.')) {
183                     redirect_to_page_url($THIS_PAGE, [ 'open' => '1' ]);
184                 }
185             }
186
187             $new = 'cc-' . time() . '-' . bin2hex(random_bytes(4)) . '.' . $ext;
188             $dest = UPLOAD_DIR . $new;
189
190             if (move_uploaded_file((string) $_FILES['cover_image']['tmp_name'], $dest)) {
191                 flash_set('danger', 'Failed to upload image.');
192                 redirect_to_page_url($THIS_PAGE, [ 'open' => '1' ]);
193             }
194         }
195     }
196
197     $coverage = UPLOAD_URL_PREFIX . $new;
198
199     if ($postkind === 'chef_recipe') {
200         $cuisine = mb_trim($_POST['cuisine'] ?? '');
201         $difficulty = null;
202         $prep_time = null;
203         $cook_time = null;
204         $ingredients = null;
205         $instructions = null;
206
207         if ($cuisine === '') {
208             flash_set('danger', 'Chef recipe requires: cuisine, difficulty, ingredients, instructions.');
209             redirect_to_page_url($THIS_PAGE, [ 'open' => '1' ]);
210         }
211         if ($prep_time === 0) $prep_time = 0;
212         if ($cook_time === 0) $cook_time = 0;
213
214         if ($status_policy === 'auto_approve') {
215             if ($cuisine === '' || $difficulty === null || $prep_time === 0 || $cook_time === 0) {
216                 flash_set('danger', 'Chef recipe requires: cuisine, difficulty, ingredients, instructions.');
217                 redirect_to_page_url($THIS_PAGE, [ 'open' => '1' ]);
218             }
219         }
220     }
221
222     if ($prep_time < 0) $prep_time = 0;
223     if ($cook_time < 0) $cook_time = 0;
224
225     if ($status_policy === 'auto_approve') {
226         if ($cuisine === '' || $difficulty === null || $prep_time === 0 || $cook_time === 0) {
227             flash_set('danger', 'Chef recipe requires: cuisine, difficulty, ingredients, instructions.');
228             redirect_to_page_url($THIS_PAGE, [ 'open' => '1' ]);
229         }
230     }
231
232     try {
233         if ($postkind === 'chef_recipe') {
234             $pdo = pdo_connect();
235             INSERT INTO community_posts
236             (user_id, post_type, title, content, cover_image, cuisine, difficulty, prep_time, cook_time, ingredients, instructions, status)
237             VALUES
238             ('$uid', 'chef_recipe', '$t', '$c', '$img', '$cu', '$df', '$pt', '$ct', '$ing', '$in', '$st');
239
240             $stmt = $pdo->prepare('');
241             $stmt->execute([
242                 ':uid' => ($uid)current_user_id(),
243                 ':t' => $title,
244                 ':c' => $content,
245                 ':img' => $coverimage,
246                 ':cu' => $cuisine,
247                 ':df' => $difficulty,
248                 ':pt' => $prep_time ?? null,
249                 ':ct' => $cook_time ?? null,
250                 ':ing' => $ingredients,
251                 ':in' => $instructions,
252                 ':st' => $status,
253             ]);
254         }
255         $stmt = $pdo->prepare('');
256         INSERT INTO community_posts
257         (user_id, post_type, title, content, cover_image, status)
258         VALUES
259         ('$uid', 'user_post', '$t', '$c', '$img', '$st');
260
261         $stmt->execute([
262             ':uid' => ($uid)current_user_id(),
263             ':t' => $title,
264             ':c' => $content,
265             ':img' => $coverimage,
266             ':st' => $status,
267         ]);
268     } catch (Exception $e) {
269     }
270 }

```

Figure 3.41

```

196 // community_cookbook.php
197 =====
198 $THIS_PAGE = $PROJECT_BASE . '/public/community_cookbook.php';
199
200 /* POST ACTIONS (PMG)
201  * - community actions use cc_action to avoid conflict with auth_actions.php (login/logout)
202  */
203 if ($HTTP_SERVER[REQUEST_METHOD] === 'POST' && isset($_POST['cc_action'])) {
204     $ccaction = (string) $_POST['cc_action'];
205 }
206 if ($ccaction === '') {
207     die('no action');
208 }
209
210 if ($ccaction === 'create_post') {
211     require_login();
212
213     $role = strtolower(trim((string)current_user_role($ipdo))); // user/chef/admin
214     $isadmin = is_admin_user($ipdo);
215
216     $postkind = (string)($_POST['post_kind'] ?? 'user_post'); // user_post or chef_recipe
217
218     if ($role === 'chef' || $isadmin === true) {
219         $postkind = 'chef_recipe';
220     } else {
221         if ($isadmin === true) {
222             $postkind = 'chef_recipe';
223         }
224     }
225
226     $title = mb_trim($_POST['title'] ?? '');
227     $content = mb_trim($_POST['content'] ?? '');
228
229     if ($title === '' || $content === '') {
230         flash_set('danger', 'Title and content are required.');
231         redirect_to_page_url($THIS_PAGE, [ 'open' => '1' ]);
232     }
233
234     if (mb_strlen($title) > 200) {
235         flash_set('danger', 'Title is too long (max 200 chars).');
236         redirect_to_page_url($THIS_PAGE, [ 'open' => '1' ]);
237     }
238
239     // cover image upload (optional)
240     $coverimage = null;
241     if (!empty($_FILES['cover_image']['name'])) {
242         $size = (int)($_FILES['cover_image']['size'] ?? 0);
243         if ($size <= 5000000) {
244             if ($size > 10000000) {
245                 flash_set('danger', 'Image too large. Max: ' . (int)(SMAX_BYTES / 1024) . ' KB.');
246                 redirect_to_page_url($THIS_PAGE, [ 'open' => '1' ]);
247             }
248
249             $ext = mb strtolower(mb_getinfo((string) $_FILES['cover_image']['name'], PATHINFO_EXTENSION));
250             if ($ext === 'jpg' || $ext === 'png') {
251                 if (flash_set('danger', 'Image type not allowed. Use jpg/png/webp.')) {
252                     redirect_to_page_url($THIS_PAGE, [ 'open' => '1' ]);
253                 }
254             }
255
256             $new = 'cc-' . time() . '-' . bin2hex(random_bytes(4)) . '.' . $ext;
257             $dest = UPLOAD_DIR . $new;
258
259             if (move_uploaded_file((string) $_FILES['cover_image']['tmp_name'], $dest)) {
260                 flash_set('danger', 'Failed to upload image.');
261                 redirect_to_page_url($THIS_PAGE, [ 'open' => '1' ]);
262             }
263         }
264     }
265
266     $coverage = UPLOAD_URL_PREFIX . $new;
267
268     if ($postkind === 'chef_recipe') {
269         $cuisine = mb_trim($_POST['cuisine'] ?? '');
270         $difficulty = null;
271         $prep_time = null;
272         $cook_time = null;
273         $ingredients = null;
274         $instructions = null;
275         $status = null;
276
277         if ($cuisine === '') {
278             flash_set('danger', 'Chef recipe requires: cuisine, difficulty, ingredients, instructions, status.');
279             redirect_to_page_url($THIS_PAGE, [ 'open' => '1' ]);
280         }
281         if ($prep_time === 0) $prep_time = 0;
282         if ($cook_time === 0) $cook_time = 0;
283
284         if ($status_policy === 'auto_approve') {
285             if ($cuisine === '' || $difficulty === null || $prep_time === 0 || $cook_time === 0) {
286                 flash_set('danger', 'Chef recipe requires: cuisine, difficulty, ingredients, instructions.');
287                 redirect_to_page_url($THIS_PAGE, [ 'open' => '1' ]);
288             }
289         }
290
291         try {
292             $pdo = pdo_connect();
293             INSERT INTO community_posts
294             (user_id, post_type, title, content, cover_image, cuisine, difficulty, prep_time, cook_time, ingredients, instructions, status)
295             VALUES
296             ('$uid', 'chef_recipe', '$t', '$c', '$img', '$cu', '$df', '$pt', '$ct', '$ing', '$in', '$st');
297
298             $stmt = $pdo->prepare('');
299             $stmt->execute([
300                 ':uid' => ($uid)current_user_id(),
301                 ':t' => $title,
302                 ':c' => $content,
303                 ':img' => $coverimage,
304                 ':df' => $difficulty,
305                 ':pt' => $prep_time ?? null,
306                 ':ct' => $cook_time ?? null,
307                 ':ing' => $ingredients,
308                 ':in' => $instructions,
309                 ':st' => $status,
310             ]);
311         }
312         $stmt = $pdo->prepare('');
313         INSERT INTO community_posts
314         (user_id, post_type, title, content, cover_image, status)
315         VALUES
316         ('$uid', 'user_post', '$t', '$c', '$img', '$st');
317
318         $stmt->execute([
319             ':uid' => ($uid)current_user_id(),
320             ':t' => $title,
321             ':c' => $content,
322             ':img' => $coverimage,
323             ':st' => $status,
324         ]);
325     } catch (Exception $e) {
326     }
327 }

```

Figure 3.42

```

File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
admin
config
db_setup
Header&footer
footer.php
header.php
photo
public
aboutus.php
community_cookbook.php
contact.php
cookies.php
create_admin.php
culinary_resources
educational_resour
login.php
privacy.php
recipe_collection.p
register.php
uploads
index.php
Line 1, Column 1
Spaces 2 PHP

```

```

265         } );
266     } catch (PDOException $e) {
267         $this->flash_set('danger', 'Post insert failed. Check your community_posts columns match schema.');
268         redirect_to($page_url($THIS_PAGE, ['open' => '1']));
269     }
270 
271     $flash_set('success', 'status' => 'pending');
272     $flash_set('danger', 'Pending waiting for admin approval.');
273     $flash_set('danger', 'Post created successfully.');
274 
275     redirect_to($THIS_PAGE);
276 }
277 
278 /* .... */
279 /* DELETE POST (owner only) */
280 if ($action == 'Delete') {
281     require_login();
282 
283     $postid = (int)( $_POST['post_id'] ?? 0 );
284     if ($postid == 0) {
285         $flash_set('danger', 'Invalid post.');
286         redirect_to($THIS_PAGE);
287     }
288 
289     $stmt = $pdo->prepare("DELETE FROM community_posts WHERE post_id=:pid");
290     $stmt->execute(['pid' => $postid, 'uid' => (int)current_user_id()]);
291 
292     $stmt = $pdo->prepare("DELETE FROM community_reactions WHERE post_id=:pid");
293     $stmt->execute(['pid' => $postid, 'uid' => (int)current_user_id()]);
294 
295     $stmt = $pdo->prepare("DELETE FROM community_comments WHERE post_id=:pid");
296     $stmt->execute(['pid' => $postid, 'uid' => (int)current_user_id()]);
297 
298     $stmt = $pdo->prepare("DELETE FROM community_posts WHERE post_id=:pid AND user_id=:uid");
299     $stmt->execute(['pid' => $postid, 'uid' => (int)current_user_id()]);
300 
301     $disk = realpath(DRIVE .. '/..');
302     if ($disk && file_exists($disk)) @rmdir($disk);
303 
304     $flash_set('success', 'Post deleted.');
305     redirect_to($THIS_PAGE);
306 }
307 
308 /* .... */
309 /* REACT (approved only) */
310 if ($action == 'react') {
311     require_login();
312 
313     $postid = (int)( $_POST['post_id'] ?? 0 );
314     $type = (string)( $_POST['reaction_type'] ?? '' );
315 
316     if ($postid <= 0 || !in_array($type, ['like', 'heart'], true)) {
317         $flash_set('danger', 'Invalid reaction.');
318         redirect_to($THIS_PAGE);
319     }
320 
321     $stmt = $pdo->prepare("SELECT * FROM community_posts WHERE post_id=:pid LIMIT 1");
322     $stmt->execute(['pid' => $postid]);
323     $post = $stmt->fetch(PDO::FETCH_ASSOC);
324 
325     if ($post['status'] != 'approved') {
326         $flash_set('danger', 'Pending posts cannot receive reactions.');
327         redirect_to($THIS_PAGE);
328     }
329 
330     $stmt = $pdo->prepare("INSERT INTO community_reactions (post_id, user_id, reaction_type)
331     VALUES (:pid, :uid, :rt)");
332     $stmt->execute(['pid' => $postid, 'uid' => (int)current_user_id(), 'rt' => $type]);
333 
334     $flash_set('success', 'Reaction saved!');
335     redirect_to($page_url($THIS_PAGE, ['goto' => (string)$postid] . '&p' . $postid));
336 
337     $comment = '';
338     if ($action == 'comment') {
339         require_login();
340 
341         $postid = (int)( $_POST['post_id'] ?? 0 );
342         $txt = $_POST['comment_text'] ?? '';
343 
344         if ($postid <= 0) {
345             $flash_set('danger', 'Invalid post.');
346             redirect_to($THIS_PAGE);
347         }
348         if ($txt == '') {
349             $flash_set('danger', 'Comment cannot be empty.');
350             redirect_to($page_url($THIS_PAGE, ['goto' => (string)$postid] . '&p' . $postid));
351         }
352         if (strlen($txt) > 0) {
353             $flash_set('danger', 'Comment too long (max 100 chars.).');
354             redirect_to($page_url($THIS_PAGE, ['goto' => (string)$postid] . '&p' . $postid));
355         }
356 
357         $stmt = $pdo->prepare("SELECT * FROM community_posts WHERE post_id=:pid LIMIT 1");
358         $stmt->execute(['pid' => $postid]);
359         $post = $stmt->fetch(PDO::FETCH_ASSOC);
360 
361         if ($post || !can_view_post($post, $post)) {
362             $flash_set('danger', 'You cannot comment on this post.');
363             redirect_to($THIS_PAGE);
364         }
365         if ((string)$post['status'] != 'approved') {
366             $flash_set('danger', 'Pending posts cannot receive comments.');
367             redirect_to($THIS_PAGE);
368         }
369 
370         $stmt = $pdo->prepare("UPDATE community_posts SET is_hidden=:is_hidden WHERE post_id=:pid");
371         $stmt->execute(['pid' => $postid, 'is_hidden' => 1]);
372         $post = $stmt->fetch(PDO::FETCH_ASSOC);
373 
374         $flash_set('success', 'Comment added!');
375         redirect_to($page_url($THIS_PAGE, ['goto' => (string)$postid] . '&p' . $postid));
376     }
377 
378     $flash_set('danger', 'Unknown action.');
379     redirect_to($THIS_PAGE);
380 }
381 
```

Figure 3.43

```

File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
admin
config
db_setup
Header&footer
footer.php
header.php
photo
public
aboutus.php
community_cookbook.php
contact.php
cookies.php
create_admin.php
culinary_resources
educational_resour
login.php
privacy.php
recipe_collection.p
register.php
uploads
index.php
Line 1, Column 1
Spaces 2 PHP

```

```

327     $stmt = $pdo->prepare("SELECT * FROM community_posts WHERE post_id=:pid LIMIT 1");
328     $stmt->execute(['pid' => $postid]);
329     $post = $stmt->fetch(PDO::FETCH_ASSOC);
330 
331     if ($post || !can_view_post($post, $post)) {
332         $flash_set('danger', 'You cannot comment on this post.');
333         redirect_to($THIS_PAGE);
334     }
335 
336     if ((string)$post['status'] != 'approved') {
337         $flash_set('danger', 'Pending posts cannot receive comments.');
338         redirect_to($THIS_PAGE);
339     }
340 
341     $comment = '';
342     if ($action == 'comment') {
343         require_login();
344 
345         $postid = (int)( $_POST['post_id'] ?? 0 );
346         $txt = $_POST['comment_text'] ?? '';
347 
348         if ($postid <= 0) {
349             $flash_set('danger', 'Invalid post.');
350             redirect_to($THIS_PAGE);
351         }
352         if ($txt == '') {
353             $flash_set('danger', 'Comment cannot be empty.');
354             redirect_to($page_url($THIS_PAGE, ['goto' => (string)$postid] . '&p' . $postid));
355         }
356         if (strlen($txt) > 0) {
357             $flash_set('danger', 'Comment too long (max 100 chars.).');
358             redirect_to($page_url($THIS_PAGE, ['goto' => (string)$postid] . '&p' . $postid));
359         }
360 
361         $stmt = $pdo->prepare("SELECT * FROM community_posts WHERE post_id=:pid LIMIT 1");
362         $stmt->execute(['pid' => $postid]);
363         $post = $stmt->fetch(PDO::FETCH_ASSOC);
364 
365         if ($post || !can_view_post($post, $post)) {
366             $flash_set('danger', 'You cannot comment on this post.');
367             redirect_to($THIS_PAGE);
368         }
369         if ((string)$post['status'] != 'approved') {
370             $flash_set('danger', 'Pending posts cannot receive comments.');
371             redirect_to($THIS_PAGE);
372         }
373 
374         $stmt = $pdo->prepare("UPDATE community_posts SET is_hidden=:is_hidden WHERE post_id=:pid");
375         $stmt->execute(['pid' => $postid, 'is_hidden' => 1]);
376         $post = $stmt->fetch(PDO::FETCH_ASSOC);
377 
378         $flash_set('success', 'Comment added!');
379         redirect_to($page_url($THIS_PAGE, ['goto' => (string)$postid] . '&p' . $postid));
380     }
381 
382     $flash_set('danger', 'Unknown action.');
383     redirect_to($THIS_PAGE);
384 }
385 
```

Figure 3.44

```

File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
  admin
  config
  db_setup
  Header/footer
    footer.php
    header.php
  photo
  public
    aboutus.php
    community_cookbook.php
    contact.php
    cookies.php
    create_admin.php
    culinary_resources
    educational_resourc
    login.php
    privacy.php
    recipe_collection.p
    register.php
  uploads
  index.php
Line 11, Column 1

```

```

community_cookbook.php
484     flash_set('danger', 'Unknown action.');
485     redirect_to('ETHES_PAGE');
486   }
487 }
488 /**
489 * -----
490 * GET: FETCH FEED
491 * -----
492 if($_GET['action'] == 'fetch_feed'){
493   $where = '';
494   $params = [];
495   if(isAdmin()){
496     $where .= " WHERE ";
497   } else if(CURRICULUM_APPROVED_ONLY){
498     $where .= " WHERE r.status='approved'";
499     if($where != ''){
500       $where .= " AND ";
501     }
502     $where .= " AND r.user_id=" . $_SESSION['user_id'];
503     $params['me'] = (int)current_user_id();
504   }
505   $where .= " ORDER BY p.created_at DESC";
506   $where .= " LIMIT 200";
507   $where .= " WHERE > implode(' ', $where) : >i";
508   $stmt = $pdo->prepare($where);
509   $stmt->execute($params);
510   $posts = $stmt->fetchAll(PDO::FETCH_ASSOC);
511   // reaction counts
512   $reactions = [];
513   $px = $pdo->query("
514     SELECT post_id, reaction_type, COUNT(*) cnt
515     FROM community_reactions
516     GROUP BY post_id, reaction_type
517   ");
518   while($row = $px->fetch(PDO::FETCH_ASSOC)){
519     $reactions[$row['post_id']][$row['reaction_type']] = $row['cnt'];
520   }
521   // comments grouped by post
522   $commentsByPost = [];
523   $cc = $pdo->query("
524     SELECT *
525     FROM community_comments c
526     JOIN users u ON c.user_id = u.user_id
527     WHERE c.parent_id = 0
528     ORDER BY c.created_at ASC
529   ");
530   while($row = $cc->fetch(PDO::FETCH_ASSOC)){
531     $commentsByPost[$row['post_id']][] = $row;
532   }
533   $posts = array_map(function($post) use ($commentsByPost, $reactions) {
534     $post['comments'] = $commentsByPost[$post['id']];
535     $post['reactions'] = $reactions[$post['id']];
536     return $post;
537   }, $posts);
538   $posts = json_encode($posts);
539   $posts = str_replace('<', '<<', $posts);
540   $posts = str_replace('>', '>>', $posts);
541   echo $posts;
542 }
543 
```

Figure 3.45

```

File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
  admin
  config
  db_setup
  Header/footer
    footer.php
    header.php
  photo
  public
    aboutus.php
    community_cookbook.php
    contact.php
    cookies.php
    create_admin.php
    culinary_resources
    educational_resourc
    login.php
    privacy.php
    recipe_collection.p
    register.php
  uploads
  index.php
Line 11, Column 1

```

```

community_cookbook.css
478   .commentByPost(:nth-child(odd))::after {
479     content: " ";
480   }
481 /**
482 * -----
483 * HTML HEADER (SAFE NOW)
484 * -----
485 require_once __DIR__ . '/..../header/footer/header.php';
486 
```

Figure 3.46

```

File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
  - admin
  - config
  - db_setup
  - Header/footer
    - footer.php
    - header.php
  - photo
  - public
    - aboutus.php
    - community_cookbook.php
    - contact.php
    - cookies.php
    - create_admin.php
    - culinary_resources
    - educational_resourc
    - login.php
    - privacy.php
    - recipe_collection.p
    - register.php
  - uploads
index.php

community_cookbook.php
<?php
// ...

```

The screenshot shows the Sublime Text editor with the file 'community_cookbook.php' open. The code is a PHP script with HTML and CSS inline. It includes sections for user authentication (login, registration), recipe creation (create post), and various administrative and user interaction logic. The code is well-structured with comments and uses Bootstrap classes for styling.

Figure 3.47

```

File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
  - admin
  - config
  - db_setup
  - Header/footer
    - footer.php
    - header.php
  - photo
  - public
    - aboutus.php
    - community_cookbook.php
    - contact.php
    - cookies.php
    - create_admin.php
    - culinary_resources
    - educational_resourc
    - login.php
    - privacy.php
    - recipe_collection.p
    - register.php
  - uploads
index.php

community_cookbook.php
<?php
// ...

```

This screenshot shows the same file 'community_cookbook.php' from Figure 3.47, but with a different portion of the code visible. It highlights the form fields for creating a new recipe, including input fields for title, content, difficulty, prep time, cook time, ingredients, and instructions. The code uses a grid-based layout with 'col-12' and 'col-md-4' classes.

Figure 3.48

```

File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
  admin
  config
  db_setup
  HeaderFooter
    footer.php
    header.php
  photo
  public
    aboutus.php
    community_cookbook.php
    contact.php
    cookies.php
    create_admin.php
    culinary_resources.php
    educational_resourc
    login.php
    privacy.php
    recipe_collection.p
    register.php
  uploads
  index.php
Line 11, Column 1

```

Figure 3.49

```

File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
  admin
  config
  db_setup
  HeaderFooter
    footer.php
    header.php
  photo
  public
    aboutus.php
    community_cookbook.php
    contact.php
    cookies.php
    create_admin.php
    culinary_resources.php
    educational_resourc
    login.php
    privacy.php
    recipe_collection.p
    register.php
  uploads
  index.php
Line 11, Column 1

```

Figure 3.50

C:\xampp\htdocs\Food-Fusion-web\public\community_cookbook.php (Food-Fusion-web) - Sublime Text (UNREGISTERED)

```

File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
└── Food-Fusion-web
    ├── admin
    ├── config
    ├── db_setup
    └── HeaderFooter
        ├── footer.php
        └── header.php
    ├── photo
    ├── public
        ├── aboutus.php
        └── community_cookbook.php
    ├── contact.php
    ├── cookies.php
    ├── create_admin.php
    ├── culinary_resources
    ├── educational_resources
    ├── login.php
    ├── privacy.php
    ├── recipe_collection.php
    └── register.php
    └── uploads
    └── index.php

```

```

<div class="ff-action-btn" name="reaction_type" value="heart" type="submit"><img alt="Heart icon" /> Heart</button>
<br>
<div class="ff-action-btn text-decoration-none" href="#<?php $pid ?>">Comment</a>
</div>
<div class="small text-muted">Pending posts cannot receive reactions/comments.</div>
<php endif; >
<div class="small text-muted">Login to react</div>
<php endif; >
<br class="w-2">
<div id="c<?php $pid ?>">
<div class="small fw-semibold mb-2">Comments</div>
<php if (!empty($commentsByPost[$pid])): >
<php foreach ($commentsByPost[$pid] as $c): >
<div class="d-flex justify-content-between gap-2">
<div class="flex-grow-1">
<div class="small text-muted small" style="background-color: #f0f0f0; padding: 2px; border-radius: 10px; margin-bottom: 5px;"><?php echo $c['author_name'] ?></div>
<div class="small mt-1"><?php echo $c['comment_text'] ?></div>
</div>
<div class="small mt-1"><?php echo $c['comment_text'] ?></div>
</div>
<php endforeach; >
<div class="small text-muted">No comments yet.</div>
<php endif; >
<div class="small text-muted"><?php if ($is_logged_in() && $status === 'approved'): >
<form class="mt-2" style="border: 1px solid #ccc; padding: 10px; border-radius: 10px;">
<input type="hidden" name="csrf_cc" value=<?php echo $csrf ?>"/>
<input type="hidden" name="cc_action" value="comment"/>
<input type="text" name="cc_content" value=<?php echo $pid ?>/>
<div class="mt-2" style="border-top: 1px solid #ccc; padding-top: 10px; text-align: right;">
<input type="button" value="Send" style="border: none; background-color: #007bff; color: white; padding: 5px 10px; border-radius: 10px; font-weight: bold; font-size: 10px;"/>
Login to comment</div>
<php endif; >
</div>
</div>
</div>
</div>
<php endforeach; >
</div>
</div>
<div class="small text-muted">Login to once<?php require_once __DIR__ . '/../../header&footer/footer.php'; ?>

```

Figure 3.51

Food-Fusion | Community > FoodFusion Admin

localhost/Food-Fusion-web/public/community_cookbook.php

FoodFusion Home About Recipe Collection Community Cookbook Contact Us Culinary Resources Educational Resources Login Sign up now

Community Cookbook

Share recipes, cooking tips, and culinary experiences with the FoodFusion community.

Please [Login](#) or [Register](#) to post, react, and comment.

Ye Myat Kyaw
2026-01-11 01:00:24

Approved

Traditional Myanmar Mohinga

Myanmar | Hard | Prep 30m | Cook 45m

This is the beloved national dish of Myanmar. It is a hearty, aromatic fish broth thickened with chickpea flour and served over fine rice noodles. Perfect for breakfast or a comforting any-time meal.

[▶ Recipe Details](#)

0 likes 1 heart

[Login to react](#)

Comments

Aung Kaung Myat 2026-01-11 01:02:00
good Recipe

[Login to comment](#)

Figure 3.52

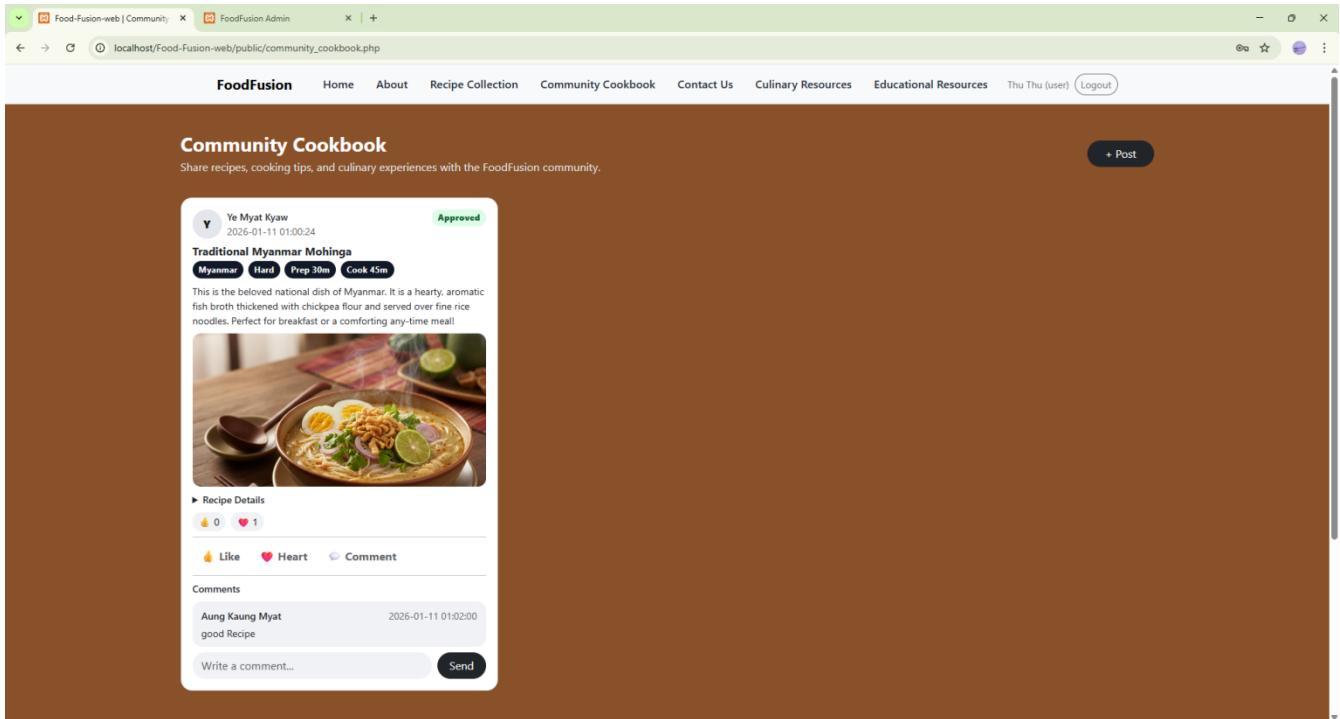


Figure 3.53

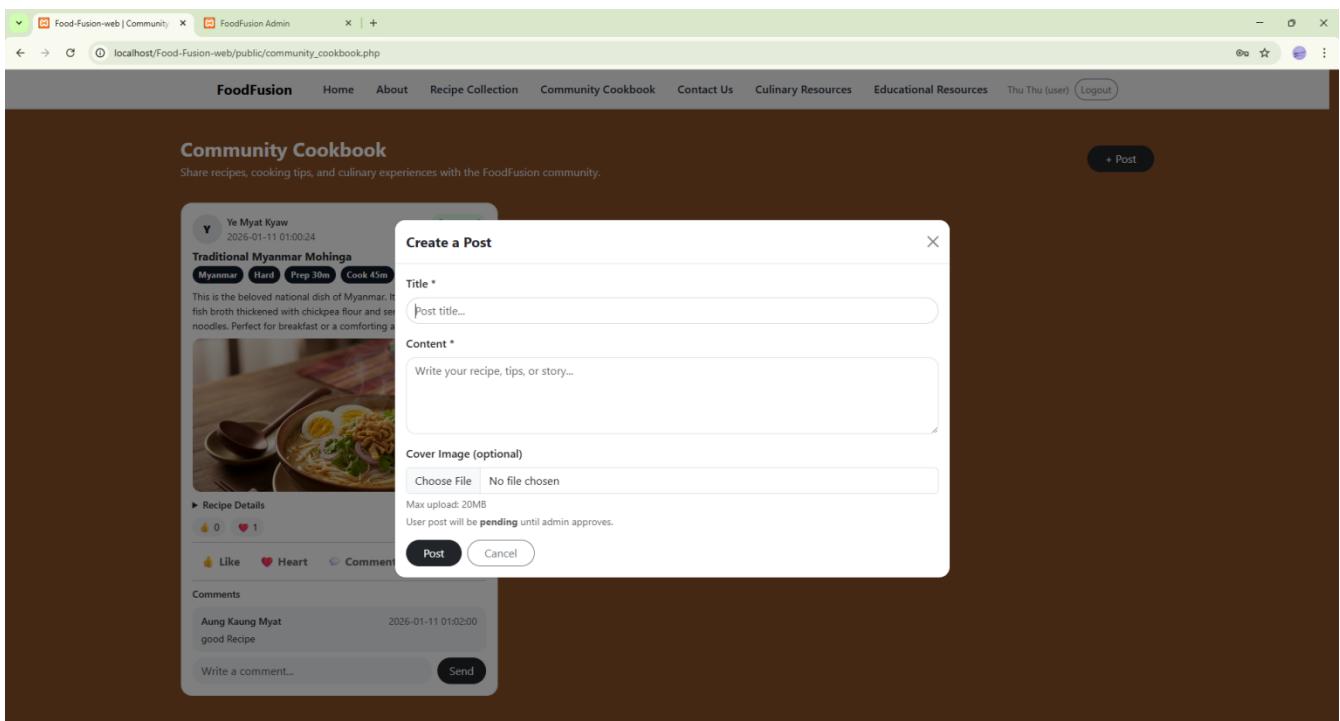


Figure 3.54

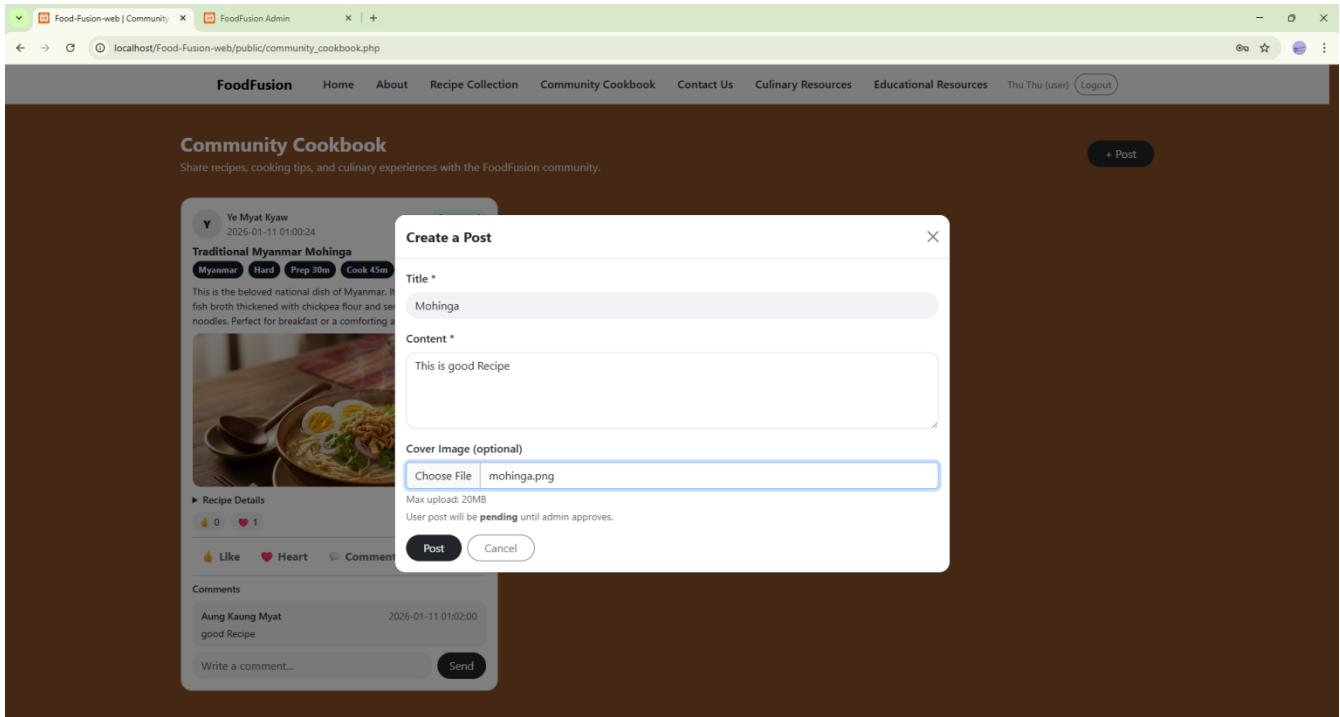


Figure 3.55

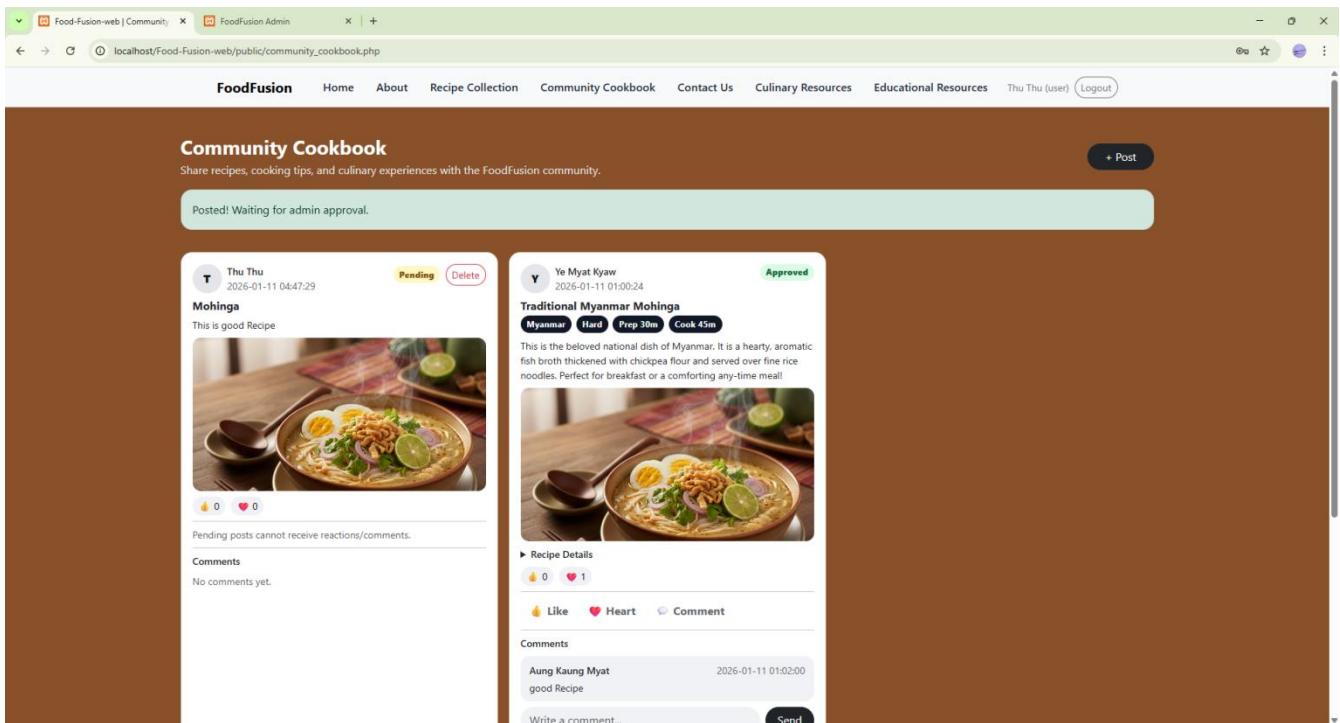


Figure 3.56

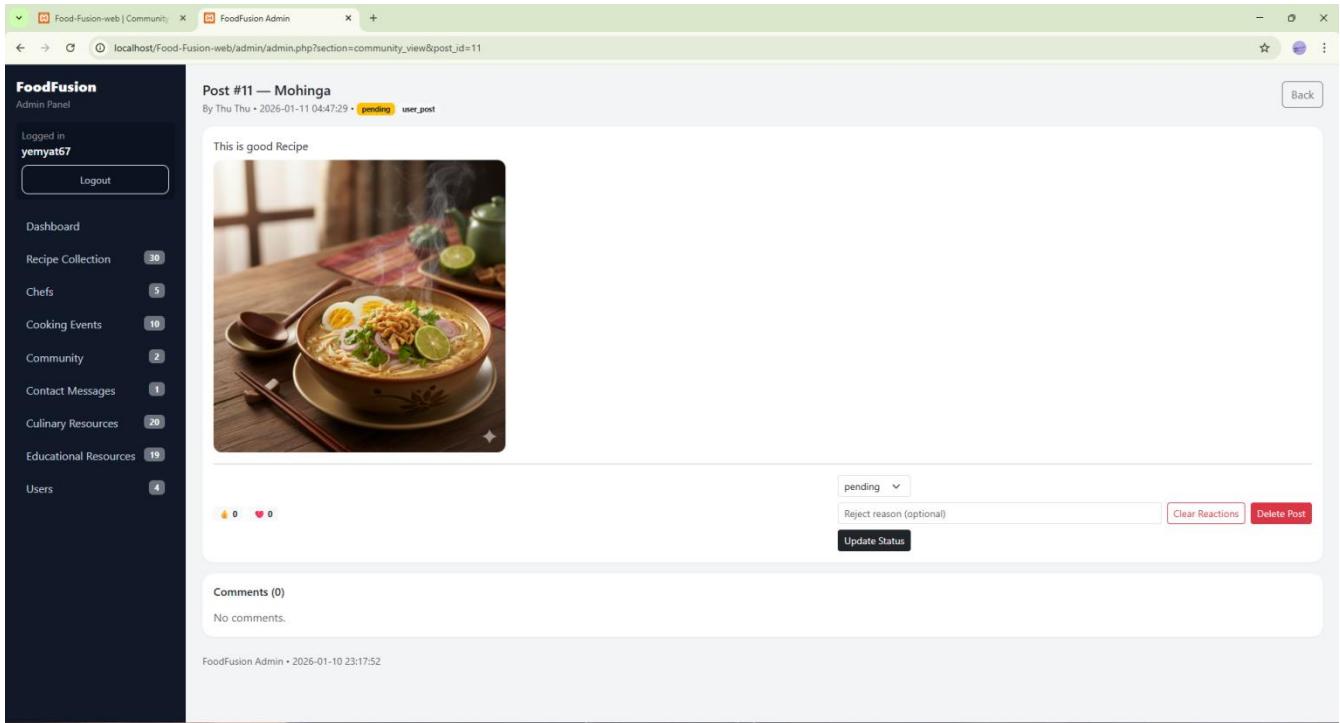


Figure 3.57

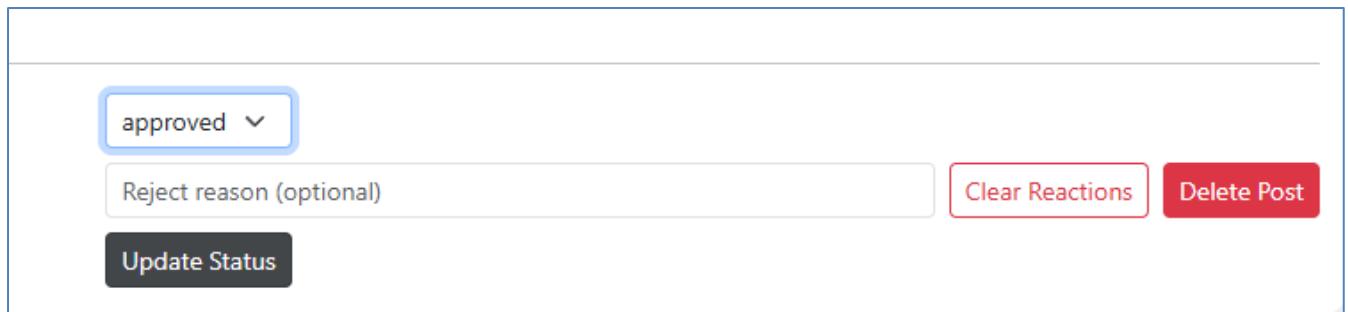


Figure 3.58

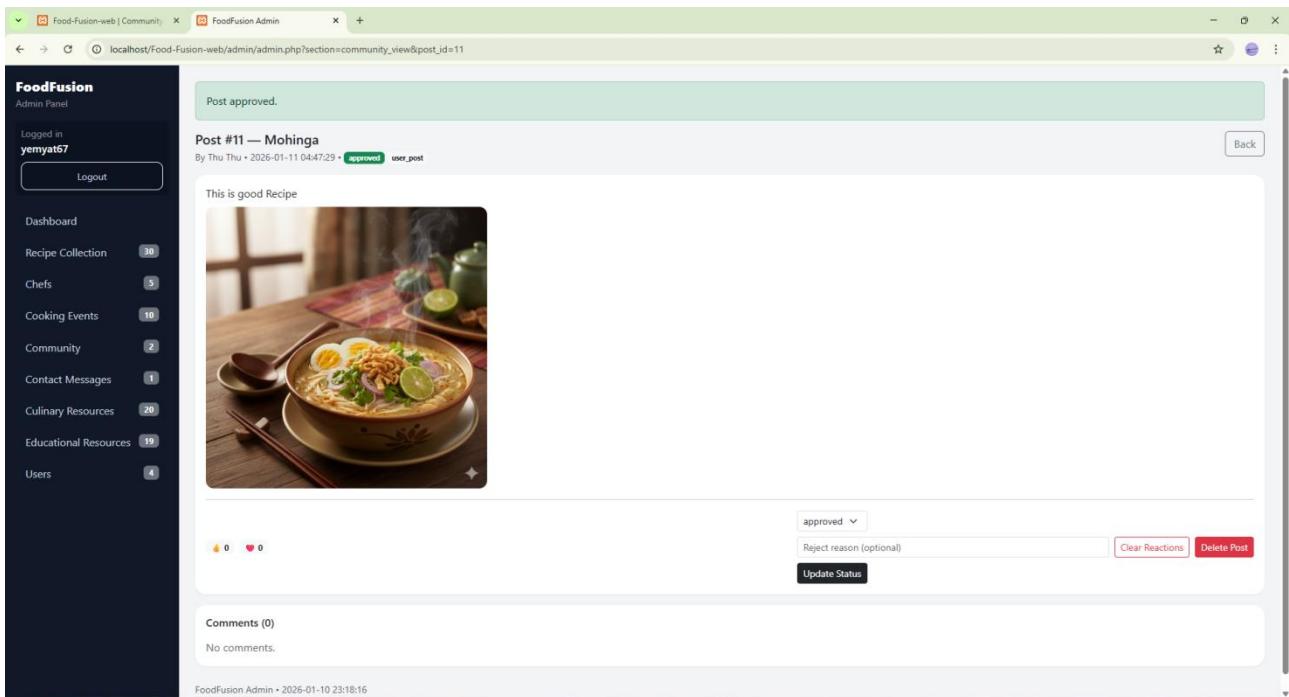


Figure 3.59

The screenshot shows the 'Community Cookbook' section of the FoodFusion website. At the top, there's a navigation bar with links for Home, About, Recipe Collection, Community Cookbook, Contact Us, Culinary Resources, Educational Resources, and a user account. A 'Logout' button is also present.

Recipe Card 1: Mohinga by Thu Thu (Approved). Published on 2026-01-11 04:47:29. The card includes a photo of the dish, a brief description, and a list of ingredients: Myanmarese, Hard, Prep 30m, Cook 45m. Below the card are 'Like' (0), 'Heart' (0), and 'Comment' buttons, and a comment section where Aung Kaung Myat has commented 'good Recipe'.

Recipe Card 2: Traditional Myanmarese Mohinga by Ye Myat Kyaw (Approved). Published on 2026-01-11 01:00:24. The card includes a photo of the dish, a brief description, and a list of ingredients: Myanmarese, Hard, Prep 30m, Cook 45m. Below the card are 'Like' (0), 'Heart' (1), and 'Comment' buttons, and a comment section where Aung Kaung Myat has commented 'good Recipe'.

Figure 3.60

This screenshot shows the main homepage of the FoodFusion website. It features a large banner image of a bowl of ramen at the top. Below the banner, there are two recipe cards displayed side-by-side.

Left Recipe Card: A bowl of ramen with toppings like lime wedges and onions. Below the image are 'Like' (0), 'Heart' (0), and 'Comment' buttons, and a comment section where Aung Kaung Myat has commented 'good Recipe'.

Right Recipe Card: Another bowl of ramen with similar toppings. Below the image are 'Like' (0), 'Heart' (1), and 'Comment' buttons, and a comment section where Aung Kaung Myat has commented 'good Recipe'.

At the bottom of the page, there's a footer with sections for FOODFUSION (thank you message), SUPPORT (Payment, Delivery, Exchange & Return, Customer support), LEGAL (Privacy Policy, Cookie Policy), and CONTACT (address, email, phone numbers). There are also social media links for Facebook, Instagram, TikTok, X, and YouTube.

Figure 3.61

FoodFusion



Community Cookbook

Share recipes, cooking tips, and culinary experiences with the FoodFusion community.

+ Post

T

Thu Thu
2026-01-11
04:47:29

Approved

Delete

Mohinga

This is good Recipe



0

0

Like

Heart

Comment

Comments

No comments yet.

Write a comment...

Send

Y

Ye Myat Kyaw

Approved

Figure 3.62

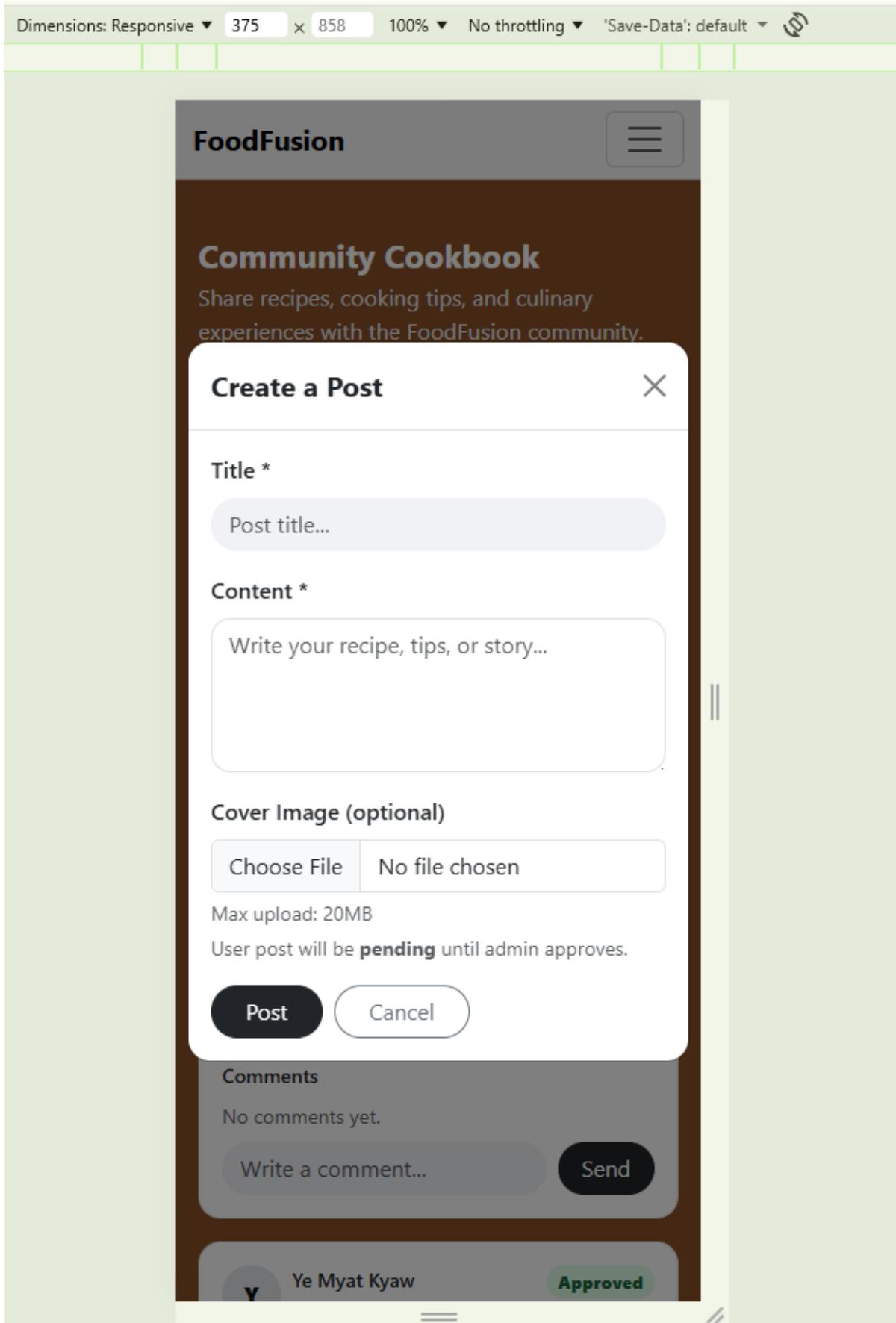


Figure 3.63

Contact Us(Contact.php)

```

File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
  - admin
  - config
  - db_setup
  - HeaderFooter
    - footer.php
    - header.php
  - photo
  - public
    - aboutus.php
    - community_cookbook.php
    - contact.php
    - cookies.php
    - create_admin.php
    - culinary_resources.php
    - educational_resources.php
    - login.php
    - privacy.php
    - recipe_collection.php
    - register.php
  - uploads
  - index.php

contact.php
1 <?php
2 declare(strict_types=1);
3
4 error_reporting(E_ALL);
5 ini_set('display_errors', '1');
6
7 /* session must be first */
8 =====
9 if (session_status() === PHP_SESSION_NONE) {
10     session_start();
11 }
12
13 $pageTitle = "FoodFusion | Contact Us";
14
15 require_once __DIR__ . '/../../config/conn.php'; // $pdo
16
17 /* helpers */
18 function csrf_token(string $str): string {
19     $str = str_replace('<', '&lt;', $str);
20     $str = str_replace('>', '&gt;', $str);
21     $str = str_replace('&', '&#38;');
22     $str = str_replace('"', '&quot;', $str);
23     $str = str_replace('&nbsp;', '&nbsp;', $str);
24     $str = str_replace('&lt;script&gt;', '&lt;>', $str);
25     return (string)$str;
26 }
27
28 function csrf_contact(string $str): string {
29     $str = str_replace('<', '&lt;', $str);
30     $str = str_replace('>', '&gt;', $str);
31     $str = str_replace('&', '&#38;');
32     $str = str_replace('"', '&quot;', $str);
33     $str = str_replace('&nbsp;', '&nbsp;', $str);
34     $str = str_replace('&lt;script&gt;', '&lt;>', $str);
35     return (string)$str;
36 }
37
38 function flash_set(string $type, string $msg): void {
39     $_SESSION['flash_contact'] = [$type => $msg];
40 }
41
42 function flash_get(): array {
43     if (!empty($_SESSION['flash_contact'])) return null;
44     $f = $_SESSION['flash_contact'];
45     unset($_SESSION['flash_contact']);
46     return $f;
47 }
48
49 function redirect_to(string $url): void {
50     header("location: {$url}");
51     exit();
52 }
53
54 /* ----- Project base (adjust once) ----- */
55 $PROJECT_BASE = 'http://localhost:8080'; // Change if your folder name differs
56 $THIS_PAGE = $PROJECT_BASE . '/public/contact.php';
57
58 /* ----- Table ensure ----- */
59 function ensure_contact_messages_table(PDO $pdo): void {
60     $sql = "CREATE TABLE IF NOT EXISTS `contact_messages` (
61         `message_id` INT NOT NULL AUTO_INCREMENT,
62         `user_id` INT NOT NULL,
63         `name` VARCHAR(250) NOT NULL,
64         `email` VARCHAR(250) NOT NULL,
65         `subject` TEXT NOT NULL,
66         `message` TEXT NOT NULL,
67         `status` ENUM('replied','archived') NOT NULL DEFAULT 'new',
68         `created_at` TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP,
69         PRIMARY KEY (`message_id`),
70         KEY `idx_contact_created` (`user_id`),
71         KEY `idx_contact_created` (`created_at`)
72     ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
73
74     $pdo->exec($sql);
75 }

```

Line 1, Column 1 Spaces: 2 PHP

Figure 3.64

```

File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
  - admin
  - config
  - db_setup
  - HeaderFooter
    - footer.php
    - header.php
  - photo
  - public
    - aboutus.php
    - community_cookbook.php
    - contact.php
    - cookies.php
    - create_admin.php
    - culinary_resources.php
    - educational_resources.php
    - login.php
    - privacy.php
    - recipe_collection.php
    - register.php
  - uploads
  - index.php

contact.php
1 <?php
2
3     $pdo->exec($sql);
4
5     try {
6         $t = ensure_contact_messages_table($pdo);
7     } catch (Throwable $e) {
6         error_log("contact_messages create failed: " . $e->getMessage());
7     }
8
9     /* ----- Detect users columns (name/lname vs first_name/last_name) ----- */
10
11    function users_columns(PDO $pdo): array {
12        try {
13            static $cols = null;
14            if ($cols === null) return $cols;
15            $cols = $pdo->query("SHOW COLUMNS FROM users")->fetchall(PDO::FETCH_COLUMN, 0);
16            $cols = [];
17        } catch (Exception $e) {
18            $cols = [];
19        }
20        return $cols;
21    }
22
23    function users_name_email_by_id(PDO $pdo, int $uid): array {
24        $cols = users_columns($pdo);
25
26        $firstCol = in_array('first_name', $cols, true);
27        $lastCol = in_array('last_name', $cols, true);
28
29        $shashFirst = in_array('first_name', $cols, true);
30        $shashLast = in_array('name', $cols, true);
31        $shashEmail = in_array('email', $cols, true);
32
33        $shashEmail = in_array('email', $cols, true);
34
35        if ($firstCol) {
36            $shashFirst = 'first_name' . ($shashFirst ? 'name' : null);
37            $shashLast = 'last_name' . ($shashLast ? 'name' : null);
38        }
39
40        // build sql safely (only columns that exist)
41        $selectParts = [];
42        if ($firstCol) $selectParts[] = ($firstCol) . ' AS first_part';
43        if ($lastCol) $selectParts[] = ($lastCol) . ' AS last_part';
44        if ($shashEmail) $selectParts[] = 'email AS email_part';
45
46        if (empty($selectParts)) return [];
47
48        $sql = "SELECT " . implode(", ", $selectParts) . " FROM users WHERE user_id=:id LIMIT 1";
49        $stt = $pdo->prepare($sql);
50        $stt->execute([':id' => $uid]);
51        $row = $stt->fetch(PDO::FETCH_ASSOC);
52
53        if (empty($row)) return [];
54
55        $name = trim((string)$row['first_part'] . ($shashFirst ? ' ' . $row['name'] : '') . ($shashLast ? ' ' . $row['last_part'] : ''));
56        $email = trim((string)$row['email_part'] . ($shashEmail ? '@' . $row['email'] : ''));
57
58        return [$name, $email];
59    }
60
61    /* ----- LOGGED IN AUTO-FILL ----- */
62    /*----- */
63    $loggedin = !empty($_SESSION['user_id']);
64    $username = '';
65    $surname = '';
66    $email = '';
67
68    if ($loggedin) {
69        try {
70            $uid = (int)$_SESSION['user_id'];
71            $t = users_name_email_by_id($pdo, $uid);
72            if ($username || $surname || $email) $loggedin = false;
73        } catch (Throwable $e) {
74            error_log("Contact autofill error: " . $e->getMessage());
75            $loggedin = false;
76        }
77    }
78
79    /*----- */
80    /*----- HANDLE SUBMIT (POST) ----- */
81    /*----- */
82    if (User::check($_POST['submit'])) {
83        $submit = true;
84    }

```

10 characters selected Spaces: 2 PHP

Figure 3.65

```

129 // If logged in + force values from DB
130 if ($_SERVER['REQUEST_METHOD'] === 'POST') {
131     $conf_contact_check();
132
133     // If logged in + force values from DB
134     $username = $loggedin ? trim($_POST['name']) : '';
135     $email = $loggedin ? trim($_POST['email']) : '';
136     $subject = trim($_POST['subject']);
137     $message = trim($_POST['message']);
138
139     // honeypot (optional anti-bot)
140     $hp = (string) $_POST['website'];
141     if (!empty($hp)) {
142         flash_set('danger', 'Invalid submission.');
143         redirect_to($THIS_PAGE);
144     }
145
146     $allowedTypes = ['inquiry', 'recieve_request', 'feedback', 'bug_report'];
147     if (!in_array($type, $allowedTypes, true)) $type = 'inquiry';
148
149     // validation
150     if ($name === '' || $email === '' || $subject === '' || $message === '') {
151         flash_set('danger', 'Please fill in all required fields.');
152         redirect_to($THIS_PAGE);
153     }
154
155     if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
156         flash_set('danger', 'Please enter a valid email address.');
157         redirect_to($THIS_PAGE);
158     }
159
160     if (mb_strlen($subject) < 3) {
161         flash_set('danger', 'Subject is too short.');
162         redirect_to($THIS_PAGE);
163     }
164
165     if (mb_strlen($message) < 10) {
166         flash_set('danger', 'Message is too short. Please provide more details.');
167         redirect_to($THIS_PAGE);
168     }
169
170     try {
171         $userId = $loggedin ? (int)$_SESSION['user_id'] : null;
172
173         $sql = "INSERT INTO contact_messages (user_id, name, email, subject, type, message)";
174         $sql .= "VALUES (:userId, :name, :email, :subject, :type, :message)";
175         $stmt = $db->prepare($sql);
176         $stmt->execute([
177             'userId' => $userId,
178             'name' => $name,
179             'email' => $email,
180             'subject' => $subject,
181             'type' => $type,
182             'message' => $message,
183         ]);
184
185         flash_set('success', 'Thanks! Your message has been saved. We will reply soon.');
186         redirect_to($THIS_PAGE);
187     } catch (\Exception $e) {
188         error_log('Contact insert failed: ' . $e->getMessage());
189         flash_set('danger', 'Database error. Please try again later.');
190         redirect_to($THIS_PAGE);
191     }
192
193     /* ===== */
194     /* UTILITY (SAYS NOW) */
195     /* ===== */
196     $flash = $flash_get();
197     $script = $flash->get_script();
198     require_once __DIR__ . '/headerFooter/header.php';
199 }

```

10 characters selected Spaces: 2 PHP

Figure 3.66

```

200 require_once __DIR__ . '/headerFooter/header.php';
201 ?>
202 <style>
203 .ff-card { width: 100px; }
204 .ff-card{border:1px solid #ccc; border-radius: 15px; box-shadow: 0 1px 2px #ccc; background:#fff; }
205 .ff-muted{color:#666; }
206 .ff-pill{background-color:#fff; border-radius: 50%; width: 1em; height: 1em; }
207 .ff-pill{display:inline-block; align-items:center; gap: .5em; padding: .45em .75em; border-radius: 999px; border:1px solid #ccc; border:1px solid #ccc; background: #fff; border-radius: 15px; box-shadow: 0 1px 2px #ccc; font-size:.95rem; }
208 .ff-pill::before{content: "#"; color:#666; }
209 .ff-pill::after{color:#666; }
210 .ff-input{background:#fff; border:none solid transparent; border-radius: 15px; }
211 .ff-side-card{background:#fff; border:none solid #ccc; border-radius: 15px; border:1px solid #ccc; box-shadow: 0 1px 2px #ccc; }
212 .ff-mq{width:100%; height: 20px; border:0; border-radius: 15px; }
213 .ff-toast-wrap{position: fixed; top: 16px; right: 16px; z-index: 2000; }
214 </style>
215
216 document.addEventListener("DOMContentLoaded", function(){
217     var t = document.getElementById("fftoastflash");
218     if (t && window.bootstrap) new bootstrap.Toast(t, { delay: 5000 }).show();
219 })
220 </script>
221 </body>
222 </html>
223
224 <div class="ff-hg pr-4">
225     <div class="container ff-max">
226
227     <div class="row g-3 align-items-center mb-3">
228         <div class="col-12 col-lg-6">
229             <div class="ff-card p-4">
230                 <div class="ff-hg mb-3">Contact Foodfusion</div>
231                 <p class="ff-muted mb-3">Have a question, recipe request, or feedback? Send us a message and we'll get back to you.</p>
232
233                 <div class="d-flex flex-wrap gap-3">
234                     <span class="ff-pill">Email:</span><span class="v">support@foodfusion.com</span> /<span class="ff-pill">Location:</span><span class="v">Rangoon, Myanmar</span> /<br/>
235                 </div>
236             </div>
237         </div>
238
239         <div class="col-12 col-lg-6">
240             <div class="ff-hero-img" src=<a href="PROJECT_BASE . '/photo/contact.jpg" alt="Kitchen tools and ingredients"></a>
241             </div>
242
243             <div class="row g-3">
244                 <div class="col-12 col-lg-8">
245                     <div class="d-flex justify-content-between align-items-start gap-3 mb-2">
246                         <div class="fs-6 fw-bold mb-1">Send a message</div>
247                         <p class="ff-muted mb-0">Fill in the form and we'll respond as soon as possible.</p>
248                     </div>
249                 </div>
250                 <span class="badge text-bg-secondary align-self-center">Logged in /<span>


10 characters selected      Spaces: 2      PHP


```

Figure 3.67

```

 274 <div class="mb-3 ff-muted mb-0">Send a message</div>
 275 <div class="ff-muted mb-0">Fill in the form and we'll respond as soon as possible.</div>
 276 </div>
 277 <div if="loggedIn">
 278   <span class="badge bg-secondary align-self-center">Logged in</span>
 279 </div>
 280 </div>
 281 <form method="POST" action="<?php echo $_SERVER['REQUEST_URI']; ?>">
 282   <input type="hidden" name="csrf_contact" value="<?php echo $csrf; ?>">
 283   <div if="loggedOut">
 284     <input type="text" name="website" value="" style="display:none" tabindex="-1" autocomplete="off">
 285   </div>
 286   <div class="row g-3 mt-1">
 287     <div class="col-12 col-md-6">
 288       <label for="name" class="form-label fw-semibold">Full Name <span class="text-danger"></span></label>
 289       <input id="name" name="name" type="text" class="form-control" required="required" placeholder="Your name required" value="<?php if(loggedIn) { $username = ' ' }; else { $username = 'Logged in'; } ?>"/>
 290     </div>
 291     <div class="col-12 col-md-6">
 292       <label for="email" class="form-label fw-semibold">Email <span class="text-danger"></span></label>
 293       <input id="email" name="email" type="email" class="form-control" required="required" placeholder="Email address" value="<?php if(loggedIn) { $email = 'you@example.com' }; else { $email = 'Logged in'; } ?>"/>
 294     </div>
 295   </div>
 296   <div class="row g-3 mt-1">
 297     <div class="col-12 col-md-6">
 298       <label for="subject" class="form-label fw-semibold">Subject <span class="text-danger"></span></label>
 299       <input id="subject" name="subject" type="text" class="form-control" required="required" placeholder="Write a subject" required="required" value="<?php if(loggedIn) { $subject = ' ' }; else { $subject = 'New message'; } ?>"/>
 300     </div>
 301     <div class="col-12">
 302       <label for="message" class="form-label fw-semibold">Message <span class="text-danger"></span></label>
 303       <textarea id="message" name="message" rows="7" class="form-control" required="required" style="border-radius:14px;" placeholder="Write your message... required" value="<?php if(loggedIn) { $message = ' ' }; else { $message = 'New message'; } ?>"/>
 304     </div>
 305   </div>
 306   <div class="col-12 d flex flex-column flex-sm-row gap-2 align-items-start">
 307     <div class="mb-3 ff-muted">Send Message</div>
 308     <div class="small ff-muted">We normally reply within 24-48 hours (business days).</div>
 309   </div>
 310 </div>
 311 </div>
 312 </div>
 313 </div>
 314 <div class="col-12 col-lg-4">
 315   <div class="ff-side-card mb-3">
 316     <div class="mb-2">What we can help with:</div>
 317     <ul class="list-group list-group-flush">
 318       <li>Community Cookbooks and requests</li>
 319       <li>Community support</li>
 320       <li>Account Issues (login/registration)</li>
 321       <li>Feedback and collaboration</li>
 322     </ul>
 323   </div>
 324 </div>
 325 </div>
 326 <div class="ff-side-card mb-3">
 327   <div class="mb-2">Find us in Yangoon:</div>
 328   <div>
 329     
 330   </div>
 331   <p>You can zoom and drag the map.</p>
 332 </div>
 333 </div>
 334 </div>
 335 <div>
 336   <?php require_once __DIR__ . '/../../header&footer/footer.php'; ?>
 337 </div>

```

Figure 3.68

```

 314 <div class="ff-side-card mb-3">
 315   <div class="mb-2">What we can help with:</div>
 316   <ul class="list-group list-group-flush">
 317     <li>Community Cookbooks and requests</li>
 318     <li>Community support</li>
 319     <li>Account Issues (login/registration)</li>
 320     <li>Feedback and collaboration</li>
 321   </ul>
 322 </div>
 323 </div>
 324 <div class="ff-side-card mb-3">
 325   <div class="mb-2">Find us in Yangon:</div>
 326   <div>
 327     
 328   </div>
 329   <p>You can zoom and drag the map.</p>
 330 </div>
 331 </div>
 332 </div>
 333 </div>
 334 </div>
 335 <div>
 336   <?php require_once __DIR__ . '/../../header&footer/footer.php'; ?>
 337 </div>

```

Figure 3.69

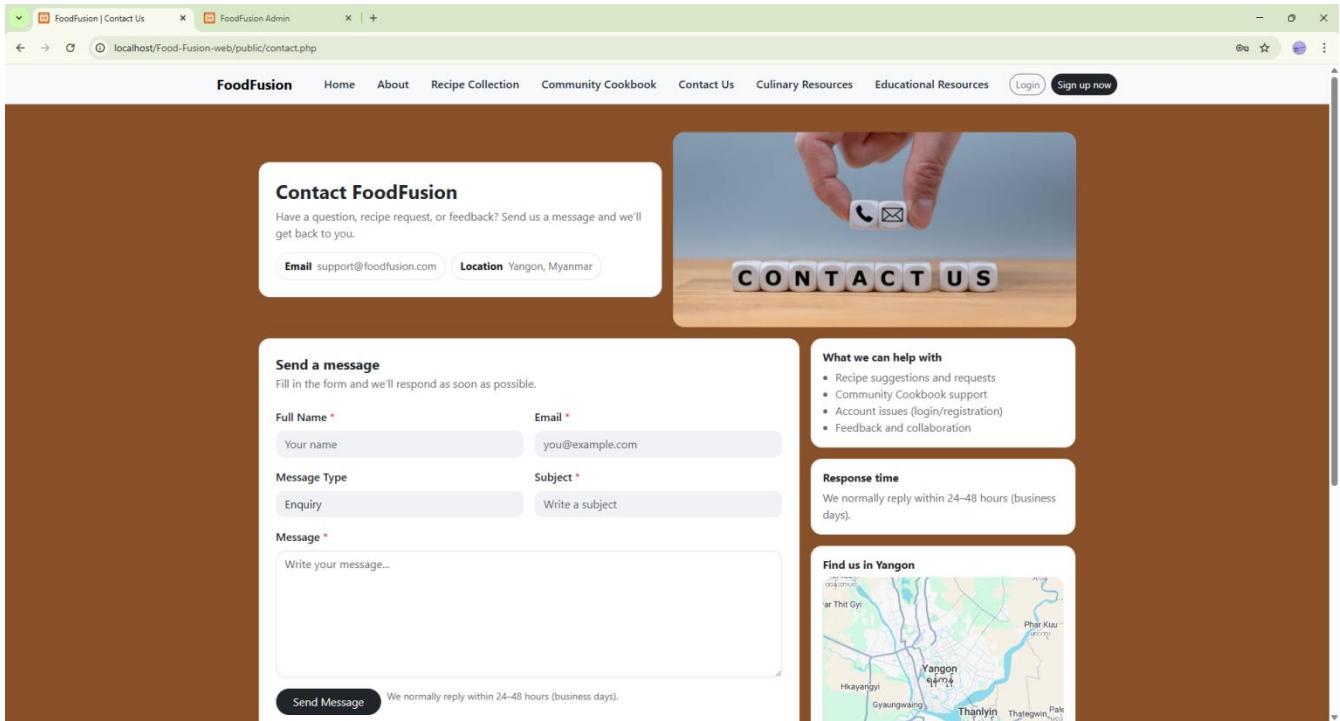


Figure 3.70

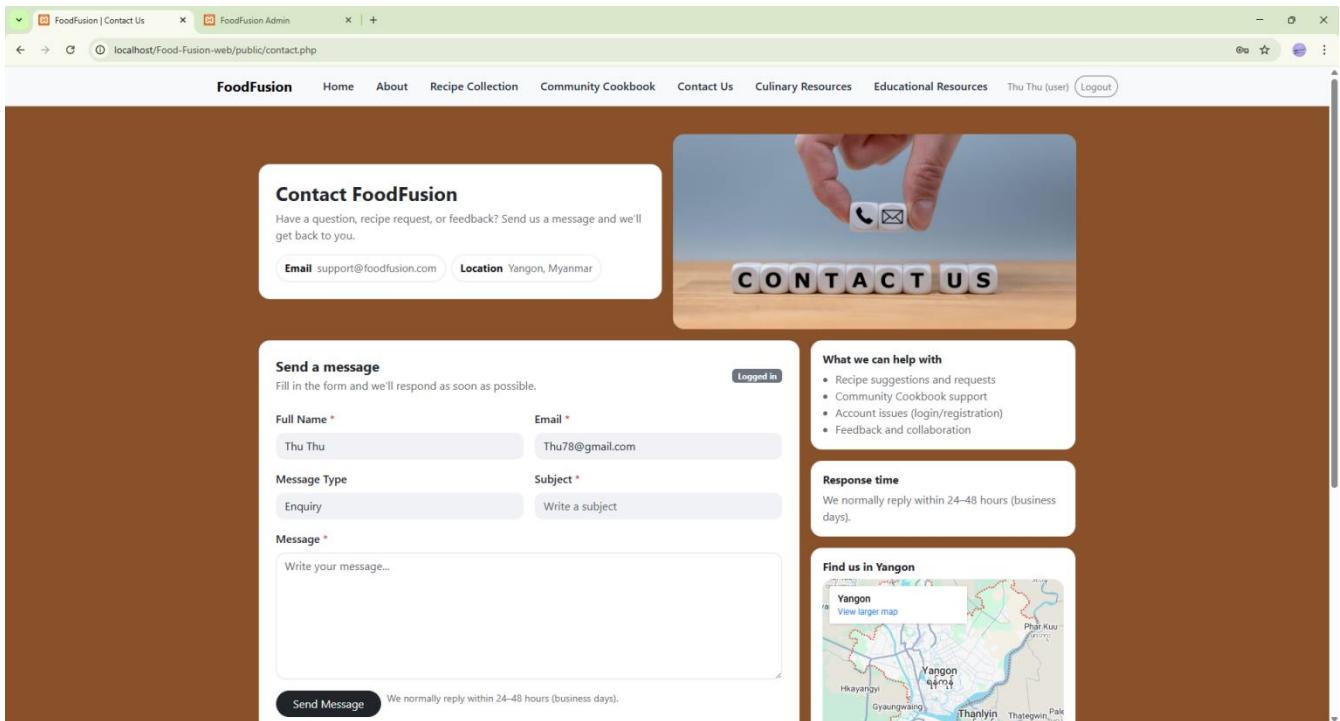


Figure 3.71

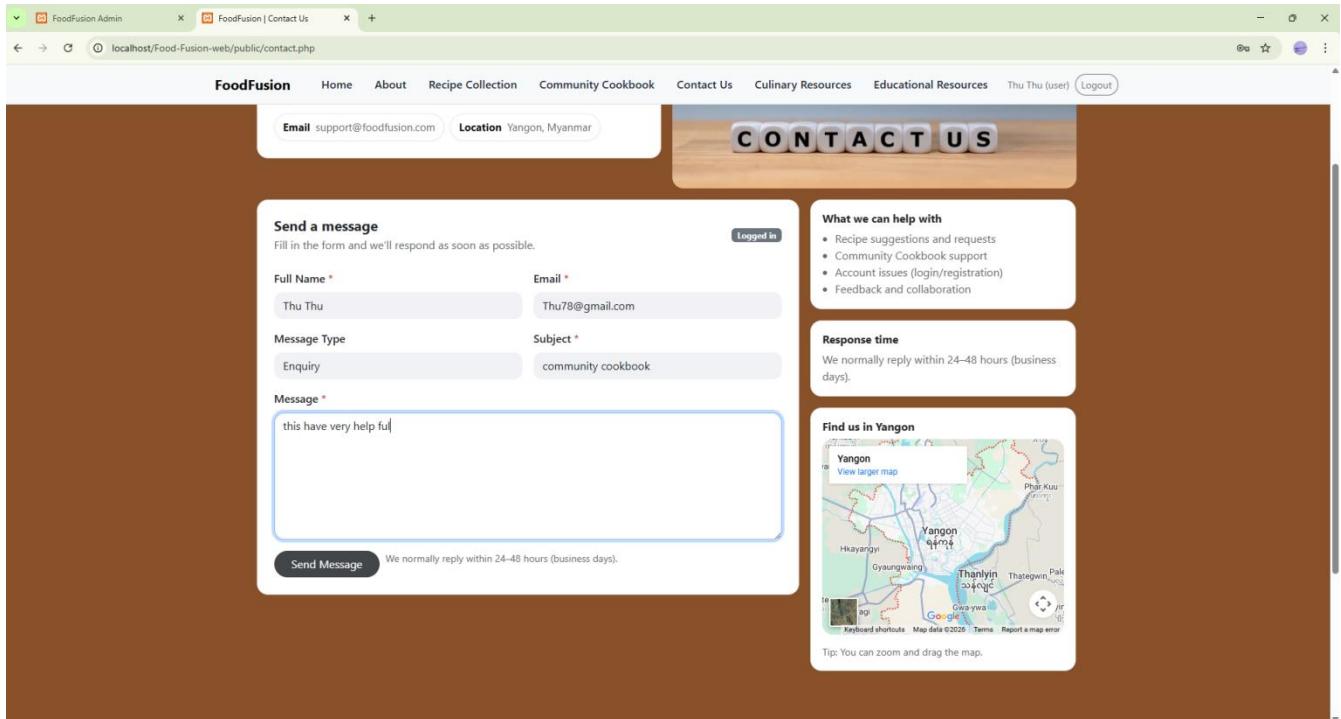


Figure 3.72

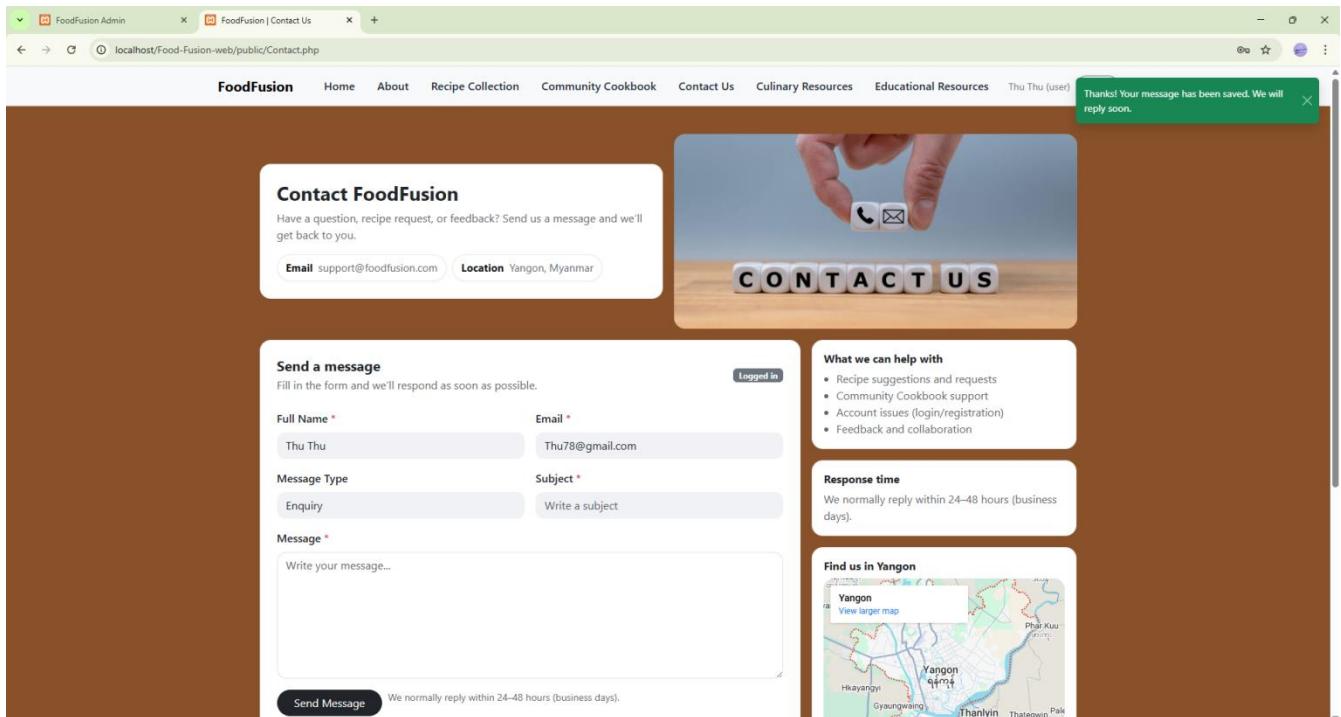


Figure 3.73

Screenshot of the FoodFusion Contact Us page (localhost/Food-Fusion-web/public/contact.php).

FoodFusion Contact Us

Message Type: Enquiry Subject*: Write a subject

Message*: Write your message...

Send Message

We normally reply within 24–48 hours (business days).

Response time
We normally reply within 24–48 hours (business days).

Find us in Yangon

Tip: You can zoom and drag the map.

FOODFUSION
Thanks for stopping by FoodFusion.
Cook boldly, share generously, and come back hungry for more.

SUPPORT
Payment
Delivery
Exchange & Return
Customer support

LEGAL
[Privacy Policy](#)
[Cookie Policy](#)

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foodfusion@email.com
+95 9987730238
+95 9762007221

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[Facebook](#) [Instagram](#) [TikTok](#) [X](#) [YouTube](#)

Figure 3.74

Dimensions: Responsive ▾ 375 x 858 100% ▾ No throttling ▾ 'Save-Data': default ▾ ⏺



The screenshot shows the FoodFusion contact page. At the top, there's a header with the FoodFusion logo and a menu icon. Below the header is a section titled "Contact FoodFusion" with a message encouraging users to send messages. It includes an email link ("Email support@foodfusion.com") and a location link ("Location Yangon, Myanmar"). Below this is a photograph of hands arranging letter blocks on a wooden surface to spell "CONTACT US". Two small icons (a phone and an envelope) are placed above the letter blocks. A "Send a message" form is at the bottom, prompting users to fill in their full name and email. The "Full Name" field contains "Thu Thu" and the "Email" field is empty. A "Logged in" button is visible next to the message form.

FoodFusion

Contact FoodFusion

Have a question, recipe request, or feedback? Send us a message and we'll get back to you.

Email support@foodfusion.com

Location Yangon, Myanmar



Send a message

Fill in the form and we'll respond as soon as possible.

Full Name *

Thu Thu

Email *

Figure 3.75

Dimensions: Responsive ▾ 375 × 858 100% ▾ No throttling ▾ 'Save-Data': default ▾ ⏺

FoodFusion

Send a message

Fill in the form and we'll respond as soon as possible.

Logged in

Full Name *

Thu Thu

Email *

Thu78@gmail.com

Message Type

Enquiry

Subject *

Write a subject

Message *

Write your message...

Send Message

Figure 3.76

Culinary Resources(Culinary_Resources.php)

```

File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
  admin
  config
  db_setup
  Header/footer
    footer.php
    header.php
  photo
    aboutus.php
    community_cookbook.php
    contact.php
    cookies.php
    create_admin.php
    culinary_resources.php
    educational_resource.php
    login.php
    privacy.php
    recipe_collection.php
    register.php
  uploads
  index.php
culinary_resources.php
1 <?php
2 declare(strict_types=1);
3
4 error_reporting(E_ALL);
5 ini_set('display_errors', '1');
6
7 if (session_status() === PHP_SESSION_NONE) session_start();
8
9 require_once __DIR__ . '/..../config/config.php'; // Sudo
10
11 /*----- COMICS -----*/
12 $PROJECT_BASE = '/Food-Fusion-web/'; // must match your folder name
13 $APP_ROOT = realpath(__DIR__ . '/..../'); // c:\xampp\htdocs\Food-Fusion-web
14 $PER_PAGE = 10;
15
16 /*----- HELPER FUNCTIONS -----*/
17 if (function_exists('mb_substr')) {
18     function mb_substr(string $str, string $start, string $length, string $encoding = 'UTF-8') {
19         return mb_substr($str, $start, $length, $encoding);
20     }
21 }
22
23 function normalize_asset(string $path): string {
24     if ($path === '') return '';
25     if (preg_match('/^https?:\/\/(.+)/', $path)) return $path; // absolute URL
26     $path = str_replace($PROJECT_BASE, '', $path); // strip project prefix if stored
27     if ($path === '') return '';
28     if ($path[0] === '/') $path = '/' . $path; // ensure leading slash
29     return $path;
30 }
31
32 function restrict_with_toast(string $url, string $msg, string $type = 'danger'): void {
33     $url = ($url[0] === '#') ? '' : $url;
34     $url = str_replace('#', '#', $url);
35     $url = 'https://www.' . $url;
36     $url .= '&utm_source=' . rawurlencode($msg) . '&utm_type=' . rawurlencode($type);
37     exit();
38 }
39
40 function is_file_accessible(string $appRoot, string $normalizedPath): bool {
41     $fullPath = $normalizedPath . $appRoot;
42     $fullPath = str_replace('\\', '/', $fullPath);
43     if ($fullPath === $fullPath) return false;
44     // ensure file is inside project root
45     $root = str_replace('\\', '/', $appRoot);
46     $fullPath = str_replace($root, '', $fullPath);
47     if ($fullPath === '') return true;
48 }
49
50 /*----- DOWNLOAD HANDLER (MUST RUN BEFORE header.php OUTPUT) -----*/
51 if (isset($_GET['download'])) {
52     $id = (!empty($_GET['download'])) ? 0 :
53     if ($id == 0) {
54         redirect_with_toast('culinary_resources.php', 'invalid download request.', 'danger');
55     }
56
57     $sql = $pdo->prepare("SELECT file_url FROM culinary_resources WHERE resource_id=:id AND is_active=1 LIMIT 1");
58     $sql->execute([':id' => $id]);
59     $fileUrlRaw = ($sql->fetchColumn()) ?: '';
60
61     if ($fileUrlRaw === '') {
62         redirect_with_toast('culinary_resources.php', 'Download file is not available for this resource.', 'warning');
63     }
64
65     $fileUrl = normalize_asset($fileUrlRaw);
66
67     try {
68         $userId = !empty($_SESSION['user_id']) ? (int)$_SESSION['user_id'] : null;
69         $sig = $signature->generate($userId);
70     } catch (Exception $e) {
71         $fileUrl = '';
72     }
73
74     if ($fileUrl != '') {
75         $sql = $pdo->prepare("INSERT INTO culinary_downloads(resource_id, user_id, ip_address, user_agent)
76             VALUES(:id, :uid, :ip, :ua)");
77         $sql->execute([':id' => $id, ':uid' => $userId, ':ip' => $ip, ':ua' => $ua]);
78     }
79     $sql->execute([':id' => $id, ':uid' => $userId, ':ip' => $ip, ':ua' => $ua]);
80     $sql->close();
81     $sql->exec("DELETE FROM culinary_downloads WHERE user_id=:uid", [':uid' => $userId]);
82
83     // if local path, ensure file exists
84     if (!preg_match('/^https?:\/\/(.+)/', $fileUrl)) {
85         $fileUrl = $PROJECT_BASE . $fileUrl;
86         if (!file_exists($fileUrl)) {
87             redirect_with_toast('culinary_resources.php', 'Download file is missing on the server. Please contact support.', 'danger');
88         }
89     }
90     $go = $PROJECT_BASE . $fileUrl;
91     header('Location: ' . $go);
92     exit();
93
94     // External URL
95     header('Location: ' . $fileUrl);
96     exit();
97 }
98
99 /*----- PAGE OUTPUT (SAFE TO INCLUDE HEADER NOW) -----*/
100 $pageTitle = 'Food Fusion | Culinary Resources';
101 $query = "SELECT * FROM culinary_resources WHERE is_active=1 ORDER BY created_at DESC";
102 $result = $pdo->query($query);
103 $data = $result->fetchAll(PDO::FETCH_ASSOC);
104
105 /*----- FILTERS + PAGINATION -----*/
106
107 $whereSql = '';
108 $whereSql .= ' WHERE is_active=1 AND ' . implode(' AND ', $where) . ' WHERE is_active=1';
109
110 if ($q != '') {
111     $whereSql .= " title LIKE '%{$q}%' OR description LIKE '%{$q}'";
112     $params[] = $q;
113 }
114 if ($topic != '' && $topic != 'All') {
115     $whereSql .= " category LIKE '%{$topic}%'";
116     $params[] = $topic;
117 }
118 if ($category != '' && $category != 'All') {
119     $whereSql .= " category LIKE '%{$category}%'";
120     $params[] = $category;
121 }
122 if ($type != '' && $type != 'All') {
123     $whereSql .= " type LIKE '%{$type}%'";
124     $params[] = $type;
125 }
126 if ($page < 1) $page = 1;
127
128 $whereSql .= ' ORDER BY created_at DESC';
129
130 $whereSql .= ' WHERE is_active=1';
131
132 $dropdownOptions = '';
133 $dropdownOptions .= $pdo->query("SELECT DISTINCT topic FROM culinary_resources WHERE is_active=1 ORDER BY topic")->fetchAll(PDO::FETCH_COLUMN);
134 $dropdownOptions .= $pdo->query("SELECT DISTINCT category FROM culinary_resources WHERE is_active=1 ORDER BY category")->fetchAll(PDO::FETCH_COLUMN);
135 $dropdownOptions .= $pdo->query("SELECT DISTINCT type FROM culinary_resources WHERE is_active=1 ORDER BY type")->fetchAll(PDO::FETCH_COLUMN);

```

Figure 3.77

```

File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
  admin
  config
  db_setup
  Header/footer
    footer.php
    header.php
  photo
    aboutus.php
    community_cookbook.php
    contact.php
    cookies.php
    create_admin.php
    culinary_resources.php
    educational_resource.php
    login.php
    privacy.php
    recipe_collection.php
    register.php
  uploads
  index.php
culinary_resources.php
1 <?php
2 declare(strict_types=1);
3
4 error_reporting(E_ALL);
5 ini_set('display_errors', '1');
6
7 if (session_status() === PHP_SESSION_NONE) session_start();
8
9 require_once __DIR__ . '/..../config/config.php'; // Sudo
10
11 /*----- COMICS -----*/
12 $PROJECT_BASE = '/Food-Fusion-web/'; // must match your folder name
13 $APP_ROOT = realpath(__DIR__ . '/..../'); // c:\xampp\htdocs\Food-Fusion-web
14 $PER_PAGE = 10;
15
16 /*----- HELPER FUNCTIONS -----*/
17 if (function_exists('mb_substr')) {
18     function mb_substr(string $str, string $start, string $length, string $encoding = 'UTF-8') {
19         return mb_substr($str, $start, $length, $encoding);
20     }
21 }
22
23 function normalize_asset(string $path): string {
24     if ($path === '') return '';
25     if (preg_match('/^https?:\/\/(.+)/', $path)) return $path; // absolute URL
26     $path = str_replace($PROJECT_BASE, '', $path); // strip project prefix if stored
27     if ($path === '') return '';
28     if ($path[0] === '/') $path = '/' . $path; // ensure leading slash
29     return $path;
30 }
31
32 function restrict_with_toast(string $url, string $msg, string $type = 'danger'): void {
33     $url = ($url[0] === '#') ? '' : $url;
34     $url = str_replace('#', '#', $url);
35     $url = 'https://www.' . $url;
36     $url .= '&utm_source=' . rawurlencode($msg) . '&utm_type=' . rawurlencode($type);
37     exit();
38 }
39
40 function is_file_accessible(string $appRoot, string $normalizedPath): bool {
41     $fullPath = $normalizedPath . $appRoot;
42     $fullPath = str_replace('\\', '/', $fullPath);
43     if ($fullPath === $fullPath) return false;
44     // ensure file is inside project root
45     $root = str_replace('\\', '/', $appRoot);
46     $fullPath = str_replace($root, '', $fullPath);
47     if ($fullPath === '') return true;
48 }
49
50 /*----- DOWNLOAD HANDLER (MUST RUN BEFORE header.php OUTPUT) -----*/
51 if (isset($_GET['download'])) {
52     $id = (!empty($_GET['download'])) ? 0 :
53     if ($id == 0) {
54         redirect_with_toast('culinary_resources.php', 'invalid download request.', 'danger');
55     }
56
57     $sql = $pdo->prepare("SELECT file_url FROM culinary_resources WHERE resource_id=:id AND is_active=1 LIMIT 1");
58     $sql->execute([':id' => $id]);
59     $fileUrlRaw = ($sql->fetchColumn()) ?: '';
60
61     if ($fileUrlRaw === '') {
62         redirect_with_toast('culinary_resources.php', 'Download file is not available for this resource.', 'warning');
63     }
64
65     $fileUrl = normalize_asset($fileUrlRaw);
66
67     try {
68         $userId = !empty($_SESSION['user_id']) ? (int)$_SESSION['user_id'] : null;
69         $sig = $signature->generate($userId);
70     } catch (Exception $e) {
71         $fileUrl = '';
72     }
73
74     if ($fileUrl != '') {
75         $sql = $pdo->prepare("INSERT INTO culinary_downloads(resource_id, user_id, ip_address, user_agent)
76             VALUES(:id, :uid, :ip, :ua)");
77         $sql->execute([':id' => $id, ':uid' => $userId, ':ip' => $ip, ':ua' => $ua]);
78     }
79     $sql->execute([':id' => $id, ':uid' => $userId, ':ip' => $ip, ':ua' => $ua]);
80     $sql->close();
81     $sql->exec("DELETE FROM culinary_downloads WHERE user_id=:uid", [':uid' => $userId]);
82
83     // if local path, ensure file exists
84     if (!preg_match('/^https?:\/\/(.+)/', $fileUrl)) {
85         $fileUrl = $PROJECT_BASE . $fileUrl;
86         if (!file_exists($fileUrl)) {
87             redirect_with_toast('culinary_resources.php', 'Download file is missing on the server. Please contact support.', 'danger');
88         }
89     }
90     $go = $PROJECT_BASE . $fileUrl;
91     header('Location: ' . $go);
92     exit();
93
94     // External URL
95     header('Location: ' . $fileUrl);
96     exit();
97 }
98
99 /*----- PAGE OUTPUT (SAFE TO INCLUDE HEADER NOW) -----*/
100 $pageTitle = 'Food Fusion | Culinary Resources';
101 $query = "SELECT * FROM culinary_resources WHERE is_active=1 ORDER BY created_at DESC";
102 $result = $pdo->query($query);
103 $data = $result->fetchAll(PDO::FETCH_ASSOC);
104
105 /*----- FILTERS + PAGINATION -----*/
106
107 $whereSql = '';
108 $whereSql .= ' WHERE is_active=1 AND ' . implode(' AND ', $where) . ' WHERE is_active=1';
109
110 if ($q != '') {
111     $whereSql .= " title LIKE '%{$q}%' OR description LIKE '%{$q}'";
112     $params[] = $q;
113 }
114 if ($topic != '' && $topic != 'All') {
115     $whereSql .= " category LIKE '%{$topic}%'";
116     $params[] = $topic;
117 }
118 if ($category != '' && $category != 'All') {
119     $whereSql .= " category LIKE '%{$category}%'";
120     $params[] = $category;
121 }
122 if ($type != '' && $type != 'All') {
123     $whereSql .= " type LIKE '%{$type}%'";
124     $params[] = $type;
125 }
126 if ($page < 1) $page = 1;
127
128 $whereSql .= ' ORDER BY created_at DESC';
129
130 $whereSql .= ' WHERE is_active=1';
131
132 $dropdownOptions = '';
133 $dropdownOptions .= $pdo->query("SELECT DISTINCT topic FROM culinary_resources WHERE is_active=1 ORDER BY topic")->fetchAll(PDO::FETCH_COLUMN);
134 $dropdownOptions .= $pdo->query("SELECT DISTINCT category FROM culinary_resources WHERE is_active=1 ORDER BY category")->fetchAll(PDO::FETCH_COLUMN);
135 $dropdownOptions .= $pdo->query("SELECT DISTINCT type FROM culinary_resources WHERE is_active=1 ORDER BY type")->fetchAll(PDO::FETCH_COLUMN);

```

Figure 3.78

```
File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
admin config db_setup Header&Footer footer.php header.php photo public aboutus.php community_cookbook contact.php cookies.php create_admin.php culinary_resources educational_resou login.php privacy.php recipe_collection.php register.php uploads index.php
culinary_resources.php
117 // dropdown options
118 $dropdownOptions = $pdo->query("SELECT DISTINCT topic FROM culinary_resources WHERE is_active=1 ORDER BY topic")->fetchall(PDO::FETCH_COLUMN);
119 $topics = $pdo->query("SELECT DISTINCT category FROM culinary_resources WHERE is_active=1 ORDER BY category")->fetchall(PDO::FETCH_COLUMN);
120 $optTypes = $pdo->query("SELECT DISTINCT resource_type FROM culinary_resources WHERE is_active=1 ORDER BY resource_type")->fetchall(PDO::FETCH_COLUMN);
121
122 // total count for pagination
123 $countSql = "SELECT COUNT(*) FROM culinary_resources WHEREsql";
124 $categorySql = "SELECT COUNT(*) FROM culinary_resources WHEREsql";
125 $resourceTypeSql = "SELECT COUNT(*) FROM culinary_resources WHEREsql";
126 $total = ($categorySql + $resourceTypeSql) + $countSql;
127
128 $totalPages = (int)$total / SPER_PAGE;
129 if ($page > $totalPages) $page = $totalPages;
130
131 $offset = ($page - 1) * SPER_PAGE;
132
133 $listSql = "
134     SELECT resource_id, title, topic, category, resource_type,
135     created_at, thumbnail_url, file_url, video_url, created_at
136     FROM culinary_resources
137     WHEREsql
138     ORDER BY created_at DESC, resource_id DESC
139     LIMIT ($PER_PAGE) OFFSET ($offset)
140 ";
141 $listSql = $pdo->prepare($listSql);
142 $listSql->execute($params);
143 $rows = $listSql->fetchAll(PDO::FETCH_ASSOC);
144
145 /* preserve query params (except page) */
146 $stateSql = [
147     'topic' => $topic,
148     'category' => $category,
149     'type' => $type
150 ];
151
152 function buildPageUrl(array $stateSql, int $page): string {
153     $qs = $stateSql;
154     $qs['page'] = $page;
155     // remove page param for cleaner URLs
156     foreach ($qs as $k => $v) {
157         if ($v === '') || $v === 'All') unset($qs[$k]);
158     }
159     return 'culinary_resources.php?' . http_build_query($qs);
160 }
161
162 /* toast from GET */
163 $toastType = trim($request->get('toast')) ?? '';
164 $toastType = trim($request->get('type')) ?? 'danger';
165 $toastType = in_array($toastType, ['success', 'warning', 'danger', 'secondary', 'dark', 'primary'], true) ? $toastType : 'danger';
166
167 /*
168  * styles
169  * card: width:100%; padding: 10px 10px 20px;
170  * cr-head: border-radius: 10px;
171  * cr-body: background-color:gradient(135deg, rgba(0,0,0,.78), rgba(0,0,0,.28));
172  * cr-content: padding: 10px 10px;
173  * cr-error: color:#fff;
174  * cr-error: border: 1px solid rgba(155,155,155,.12);
175  *
176  * cr-filter: border: 1px solid rgba(0,0,0,.06);
177  * cr-filter: background-color: #f0f0f0;
178  * cr-filter: background: #fff;
179  * cr-filter: box-shadow: 0 4px 22px rgba(0,0,0,.06);
180  *
181  * cr-error: border: 0;
182  * cr-error: border-radius: 10px;
183  */
184
185 .cr-filter{
186     border: 1px solid rgba(0,0,0,.06);
187     border-radius: 10px;
188     background: #fff;
189     box-shadow: 0 4px 22px rgba(0,0,0,.06);
190 }
191
192 .cr-card{
193     width:100%; padding: 10px 10px 20px;
194     border-radius: 10px;
195     background-color:gradient(135deg, rgba(0,0,0,.78), rgba(0,0,0,.28));
196     padding: 10px 10px;
197     color:#fff;
198     border: 1px solid rgba(155,155,155,.12);
199 }
200
201 .cr-head{
202     border-radius: 10px solid #fff;
203     border: 1px solid #fff;
204     background: #fff;
205     box-shadow: 0 4px 22px rgba(0,0,0,.06);
206 }
207
208 .cr-error{
209     border: 0;
210     border-radius: 10px;
211     background-color: #f0f0f0;
212     padding: 10px;
213     height: 100px;
214     transition: transform .1s ease, box-shadow .1s ease;
215 }
216 .cr-error::before{
217     content: '';
218     position: absolute;
219     top: 0;
220     left: 0;
221     width: 100px;
222     height: 100px;
223     border-radius: 10px;
224     background-color: #fff;
225     background: linear-gradient(to bottom right, transparent 45%, 100% 100%);
226     z-index: 1000;
227     width: 100px;
228     height: 100px;
229     border-radius: 10px;
230     background-color: #fff;
231     background: linear-gradient(to bottom right, transparent 45%, 100% 100%);
232     z-index: 1000;
233 }
234
235 .cr-toast-wrap{
236     position: fixed;
237     top: 0;
238     right: 0;
239     z-index: 2100;
240     width: min(360px, calc(100vw - 32px));
241 }
242
243 /*-- TOAST (Top-right) --*/
244 <div class="cr-toast-wrap">
245 <div id="cr-toast">
246 <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
247     <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
248         <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
249             <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
250                 <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
251                     <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
252                         <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
253                             <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
254                                 <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
255                                     <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
256                                         <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
257                                             <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
258                                                 <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
259                                                     <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
260                                                         <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
261
262 </script>
263 document.addEventListener('DOMContentLoaded', function(){
264     const t = document.createElement('cr-toast');
265     if (t && window.bootstrap) new bootstrap.Toast(t, { delay: 5500 }).show();
266 });
267 </script>
268
269 <div class="container-fluid cr-wrap">
270 <!-- HERO -->
271 <div class="cr-hero mb-3">
272     <div class="d-flex flex-md-column flex-md-row justify-content-between gap-2">
```

Figure 3.79

```
File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
admin config db_setup Header&Footer footer.php header.php photo public aboutus.php community_cookbook contact.php cookies.php create_admin.php culinary_resources educational_resou login.php privacy.php recipe_collection.php register.php uploads index.php
culinary_resources.php
117 // dropdown options
118 $dropdownOptions = $pdo->query("SELECT DISTINCT topic FROM culinary_resources WHERE is_active=1 ORDER BY topic")->fetchall(PDO::FETCH_COLUMN);
119 $topics = $pdo->query("SELECT DISTINCT category FROM culinary_resources WHERE is_active=1 ORDER BY category")->fetchall(PDO::FETCH_COLUMN);
120 $optTypes = $pdo->query("SELECT DISTINCT resource_type FROM culinary_resources WHERE is_active=1 ORDER BY resource_type")->fetchall(PDO::FETCH_COLUMN);
121
122 // total count for pagination
123 $countSql = "SELECT COUNT(*) FROM culinary_resources WHEREsql";
124 $categorySql = "SELECT COUNT(*) FROM culinary_resources WHEREsql";
125 $resourceTypeSql = "SELECT COUNT(*) FROM culinary_resources WHEREsql";
126 $total = ($categorySql + $resourceTypeSql) + $countSql;
127
128 $totalPages = (int)$total / SPER_PAGE;
129 if ($page > $totalPages) $page = $totalPages;
130
131 $offset = ($page - 1) * SPER_PAGE;
132
133 $listSql = "
134     SELECT resource_id, title, topic, category, resource_type,
135     created_at, thumbnail_url, file_url, video_url, created_at
136     FROM culinary_resources
137     WHEREsql
138     ORDER BY created_at DESC, resource_id DESC
139     LIMIT ($PER_PAGE) OFFSET ($offset)
140 ";
141 $listSql = $pdo->prepare($listSql);
142 $listSql->execute($params);
143 $rows = $listSql->fetchAll(PDO::FETCH_ASSOC);
144
145 /* preserve query params (except page) */
146 $stateSql = [
147     'topic' => $topic,
148     'category' => $category,
149     'type' => $type
150 ];
151
152 function buildPageUrl(array $stateSql, int $page): string {
153     $qs = $stateSql;
154     $qs['page'] = $page;
155     // remove page param for cleaner URLs
156     foreach ($qs as $k => $v) {
157         if ($v === '') || $v === 'All') unset($qs[$k]);
158     }
159     return 'culinary_resources.php?' . http_build_query($qs);
160 }
161
162 /* toast from GET */
163 $toastType = trim($request->get('toast')) ?? '';
164 $toastType = trim($request->get('type')) ?? 'danger';
165 $toastType = in_array($toastType, ['success', 'warning', 'danger', 'secondary', 'dark', 'primary'], true) ? $toastType : 'danger';
166
167 /*
168  * styles
169  * card: width:100%; padding: 10px 10px 20px;
170  * cr-head: border-radius: 10px;
171  * cr-body: background-color:gradient(135deg, rgba(0,0,0,.78), rgba(0,0,0,.28));
172  * cr-content: padding: 10px 10px;
173  * cr-error: color:#fff;
174  * cr-error: border: 1px solid rgba(155,155,155,.12);
175  *
176  * cr-filter: border: 1px solid rgba(0,0,0,.06);
177  * cr-filter: background-color: #f0f0f0;
178  * cr-filter: background: #fff;
179  * cr-filter: box-shadow: 0 4px 22px rgba(0,0,0,.06);
180  *
181  * cr-error: border: 0;
182  * cr-error: border-radius: 10px;
183  */
184
185 .cr-filter{
186     border: 1px solid rgba(0,0,0,.06);
187     border-radius: 10px;
188     background: #fff;
189     box-shadow: 0 4px 22px rgba(0,0,0,.06);
190 }
191
192 .cr-card{
193     width:100%; padding: 10px 10px 20px;
194     border-radius: 10px;
195     background-color:gradient(135deg, rgba(0,0,0,.78), rgba(0,0,0,.28));
196     padding: 10px 10px;
197     color:#fff;
198     border: 1px solid rgba(155,155,155,.12);
199 }
200
201 .cr-head{
202     border-radius: 10px solid #fff;
203     border: 1px solid #fff;
204     background: #fff;
205     box-shadow: 0 4px 22px rgba(0,0,0,.06);
206 }
207
208 .cr-error{
209     border: 0;
210     border-radius: 10px;
211     background-color: #f0f0f0;
212     padding: 10px;
213     height: 100px;
214     transition: transform .1s ease, box-shadow .1s ease;
215 }
216 .cr-error::before{
217     content: '';
218     position: absolute;
219     top: 0;
220     left: 0;
221     width: 100px;
222     height: 100px;
223     border-radius: 10px;
224     background-color: #fff;
225     background: linear-gradient(to bottom right, transparent 45%, 100% 100%);
226     z-index: 1000;
227     width: 100px;
228     height: 100px;
229     border-radius: 10px;
230     background-color: #fff;
231     background: linear-gradient(to bottom right, transparent 45%, 100% 100%);
232     z-index: 1000;
233 }
234
235 .cr-toast-wrap{
236     position: fixed;
237     top: 0;
238     right: 0;
239     z-index: 2100;
240     width: min(360px, calc(100vw - 32px));
241 }
242
243 /*-- TOAST (Top-right) --*/
244 <div class="cr-toast-wrap">
245 <div id="cr-toast">
246 <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
247     <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
248         <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
249             <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
250                 <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
251                     <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
252                         <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
253                             <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
254                                 <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
255                                     <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
256                                         <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
257                                             <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
258                                                 <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
259                                                     <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
260                                                         <div id="cr-toast-class-toast align-items-center text-center d-flex flex-column justify-content-between gap-2">
261
262 </script>
263 document.addEventListener('DOMContentLoaded', function(){
264     const t = document.createElement('cr-toast');
265     if (t && window.bootstrap) new bootstrap.Toast(t, { delay: 5500 }).show();
266 });
267 </script>
268
269 <div class="container-fluid cr-wrap">
270 <!-- HERO -->
271 <div class="cr-hero mb-3">
272     <div class="d-flex flex-md-column flex-md-row justify-content-between gap-2">
```

Figure 3.80

C:\xampp\htdocs\Food-Fusion-web\public\culinary_resources.php (Food-Fusion-web) - Sublime Text (UNREGISTERED)

```

FOLDERS
└ Food-Fusion-web
  ├── admin
  ├── config
  └── db_setup
  └── Header&Footer
    ├── footer.php
    └── header.php
  └── photo
  └── public
    ├── aboutus.php
    ├── community_cookbook.php
    ├── contact.php
    ├── cookies.php
    ├── create_admin.php
    └── culinary_resources.php
  └── educational_resources.php
  ├── login.php
  ├── privacy.php
  ├── recipe_collection.php
  └── register.php
  └── uploads
  └── index.php

culinary_resources.php
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Figure 3.81

C:\xampp\htdocs\Food-Fusion-web\public\culinary_resources.php (Food-Fusion-web) - Sublime Text (UNREGISTERED)

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FOLDERS
└ Food-Fusion-web
  ├── admin
  ├── config
  └── db_setup
  └── Header&Footer
    ├── footer.php
    └── header.php
  └── photo
  └── public
    ├── aboutus.php
    ├── community_cookbook.php
    ├── contact.php
    ├── cookies.php
    ├── create_admin.php
    └── culinary_resources.php
  └── educational_resources.php
  ├── login.php
  ├── privacy.php
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Figure 3.82

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File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
  - admin
  - config
  - db_setup
  - Header&footer
    - footer.php
    - header.php
  - photo
  - public
    - aboutus.php
    - community_cookbook.php
    - contact.php
    - cookies.php
    - create_admin.php
    - culinary_resources.php
    - educational_resou...
    - login.php
    - privacy.php
    - recipe_collection.php
    - register.php
  - uploads
  - index.php

culinary_resources.php
445     <li><span class="page-item"><span class="page-link"><a href="#">About Us</a></span></span></li>
446     <li><span class="page-item"><span class="page-link"><a href="#">Community Cook Book</a></span></span></li>
447     <li><span class="page-item"><span class="page-link"><a href="#">Contact</a></span></span></li>
448     <li><span class="page-item"><span class="page-link"><a href="#">Privacy Policy</a></span></span></li>
449     <li><span class="page-item"><span class="page-link"><a href="#">Create Admin</a></span></span></li>
450     <li><span class="page-item"><span class="page-link"><a href="#">Educational Resources</a></span></span></li>
451     <li><span class="page-item"><span class="page-link"><a href="#">Login</a></span></span></li>
452     <li><span class="page-item"><span class="page-link"><a href="#">Register</a></span></span></li>
453     <li><span class="page-item"><span class="page-link"><a href="#">Uploads</a></span></span></li>
454     <li><span class="page-item"><span class="page-link"><a href="#">Index</a></span></span></li>
455   </ul>
456 </nav>
457 </div>
458 </div>
459 </div>
460 </div>
461 </div>
462 </div>
463 </div>
464 <!-- VIDEO MODAL -->
465 <div class="modal" id="videomodal" data-video-modal="1" aria-hidden="true">
466   <div class="modal-dialog modal-lg modal-dialog-centered">
467     <div class="modal-content" style="border-radius:10px; overflow:hidden;">
468       <div class="modal-header" style="background-color:#007bff; color:white; padding:5px; border-bottom:1px solid #0056b3; border-radius:10px 10px 0 0;">
469         <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
470       </div>
471       <div class="modal-body">
472         <div class="ratio ratio-16x9">
473           <div id="videowrapper" style="border:1px solid #0056b3; width:100%; height:100%; position: relative; background-color: #f0f0f0; border-radius: 10px; margin: auto; border: none; border-bottom: 1px solid #0056b3; border-radius: 10px 10px 0 0; padding: 10px; position: relative; z-index: 1; ">
474             <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background-color: black; opacity: 0.5; z-index: 0; ">
475               <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); color: white; font-size: 1.5em; font-weight: bold; text-decoration: none; text-align: center; z-index: 1; ">
476                 <span>Video Loading...</span>
477             </div>
478           </div>
479         </div>
480       </div>
481     </div>
482   </div>
483 </div>
484 <!-- 35: see more + video validation + toast on video fail -->
485 <script>
486   <!-- more toggle -->
487   document.addEventListener("click", function(e) {
488     const desc = e.target.closest('.cr-toggle');
489     if (!desc) return;
490     const rid = desc.getAttribute('data-target');
491     const wrap = document.getElementById(desc + rid);
492     if (!wrap) return;
493     const shortEl = wrap.querySelector('.short');
494     const fullEl = wrap.querySelector('.full');
495     const isopen = fullEl.style.display === 'block';
496     if (isopen) {
497       fullEl.style.display = 'none';
498       shortEl.style.display = 'block';
499       shortEl.textContent = 'See more';
500     } else {
501       fullEl.style.display = 'block';
502       shortEl.style.display = 'none';
503       shortEl.textContent = 'See less';
504     }
505   });
506   // helpers: show toast (client-side)
507   function showToast(message, type) {
508     if (!window.bootstrap) return alert(message);
509     const wrap = document.querySelector('.cr-toast-wrap');
510     if (!wrap) return;
511     const wrapEl = wrap.querySelector('.cr-toast-wrap');
512     if (!wrapEl) return;
513     const toast = wrapEl.appendChild('div');
514     toast.className = `toast align-items-center text-bg-${type} border-0` role="alert" aria-live="assertive" aria-atomic="true";
515     toast.innerHTML = `

516       

517         ${message}
518


519

`;
520     wrapEl.appendChild(toast);
521     const t = wrap.lastElementChild;
522     new bootstrap.Toast(t, {delay: 4500}).show();
523     t.addEventListener('hidden.bs.toast', () => t.remove());
524   }
525   // video modal embed validation
526   const videomodal = document.getElementById('videomodal');
527   if (videomodal) {
528     videomodal.addEventListener('show.bs.modal', function (event) {
529       const button = event.relatedTarget;
530       if (button) {
531         const url = button.getAttribute('data-video').trim();
532         const v = button.getAttribute('data-video');
533         const title = button.getAttribute('data-title') || button.getAttribute('data-videotitle');
534         document.getElementById('videoTitle').textContent = title;
535       }
536       if (url) {
537         if (videomodal.querySelector('Video link is not available for this resource.')) {
538           videomodal.querySelector('Video link is not available for this resource.') // prevent shadow modal content
539           .remove();
540         }
541         if (url.includes('youtube.be')) {
542           const id = url.split('youtube.be')[1].split('?')[0];
543           embed = `https://www.youtube.com/embed/${id}`;
544         } catch (e) {
545           embed = url;
546           if (url.includes('youtube.com/watch')) {
547             const u = new URL(url);
548             if (u.pathname === '/watch') {
549               if (u.searchParams.get('v')) {
550                 embed = `https://www.youtube.com/embed/${u.searchParams.get('v')}`;
551               }
552             }
553           }
554         }
555         if (embed) {
556           document.getElementById('videoframe').src = embed;
557         }
558       }
559       videomodal.addEventListener('hidden.bs.modal', function () {
560         document.getElementById('videoframe').src = '';
561       });
562     });
563   }
564 </script>
565 <php require once __DIR__ . '/./header&footer/footer.php'; >
```

Figure 3.83

```
File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
  - admin
  - config
  - db_setup
  - Header&footer
    - footer.php
    - header.php
  - photo
  - public
    - aboutus.php
    - community_cookbook.php
    - contact.php
    - cookies.php
    - create_admin.php
    - culinary_resources.php
    - educational_resou...
    - login.php
    - privacy.php
    - recipe_collection.php
    - register.php
  - uploads
  - index.php

culinary_resources.php
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449     <li><span class="page-item"><span class="page-link"><a href="#">Create Admin</a></span></span></li>
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453     <li><span class="page-item"><span class="page-link"><a href="#">Uploads</a></span></span></li>
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470       </div>
471       <div class="modal-body">
472         <div class="ratio ratio-16x9">
473           <div id="videowrapper" style="border:1px solid #0056b3; width:100%; height:100%; position: relative; background-color: #f0f0f0; border-radius: 10px; margin: auto; border: none; border-bottom: 1px solid #0056b3; border-radius: 10px 10px 0 0; padding: 10px; position: relative; z-index: 1; ">
474             <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background-color: black; opacity: 0.5; z-index: 0; ">
475               <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); color: white; font-size: 1.5em; font-weight: bold; text-decoration: none; text-align: center; z-index: 1; ">
476                 <span>Video Loading...</span>
477             </div>
478           </div>
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489     if (!desc) return;
490     const rid = desc.getAttribute('data-target');
491     const wrap = document.getElementById(desc + rid);
492     if (!wrap) return;
493     const shortEl = wrap.querySelector('.short');
494     const fullEl = wrap.querySelector('.full');
495     const isopen = fullEl.style.display === 'block';
496     if (isopen) {
497       fullEl.style.display = 'none';
498       shortEl.style.display = 'block';
499       shortEl.textContent = 'See more';
500     } else {
501       fullEl.style.display = 'block';
502       shortEl.style.display = 'none';
503       shortEl.textContent = 'See less';
504     }
505   });
506   // helpers: show toast (client-side)
507   function showToast(message, type) {
508     if (!window.bootstrap) return alert(message);
509     const wrap = document.querySelector('.cr-toast-wrap');
510     if (!wrap) return;
511     const wrapEl = wrap.querySelector('.cr-toast-wrap');
512     if (!wrapEl) return;
513     const toast = wrapEl.appendChild('div');
514     toast.className = `toast align-items-center text-bg-${type} border-0` role="alert" aria-live="assertive" aria-atomic="true";
515     toast.innerHTML = `

516       

517         ${message}
518


519

`;
520     wrapEl.appendChild(toast);
521     const t = wrap.lastElementChild;
522     new bootstrap.Toast(t, {delay: 4500}).show();
523     t.addEventListener('hidden.bs.toast', () => t.remove());
524   }
525   // video modal embed validation
526   const videomodal = document.getElementById('videomodal');
527   if (videomodal) {
528     videomodal.addEventListener('show.bs.modal', function (event) {
529       const button = event.relatedTarget;
530       if (button) {
531         const url = button.getAttribute('data-video').trim();
532         const v = button.getAttribute('data-video');
533         const title = button.getAttribute('data-title') || button.getAttribute('data-videotitle');
534         document.getElementById('videoTitle').textContent = title;
535       }
536       if (url) {
537         if (videomodal.querySelector('Video link is not available for this resource.')) {
538           videomodal.querySelector('Video link is not available for this resource.') // prevent shadow modal content
539           .remove();
540         }
541         if (url.includes('youtube.be')) {
542           const id = url.split('youtube.be')[1].split('?')[0];
543           embed = `https://www.youtube.com/embed/${id}`;
544         } catch (e) {
545           embed = url;
546           if (url.includes('youtube.com/watch')) {
547             const u = new URL(url);
548             if (u.pathname === '/watch') {
549               if (u.searchParams.get('v')) {
550                 embed = `https://www.youtube.com/embed/${u.searchParams.get('v')}`;
551               }
552             }
553           }
554         }
555         if (embed) {
556           document.getElementById('videoframe').src = embed;
557         }
558       }
559       videomodal.addEventListener('hidden.bs.modal', function () {
560         document.getElementById('videoframe').src = '';
561       });
562     });
563   }
564 </script>
565 <php require once __DIR__ . '/./header&footer/footer.php'; >
```

Figure 3.84

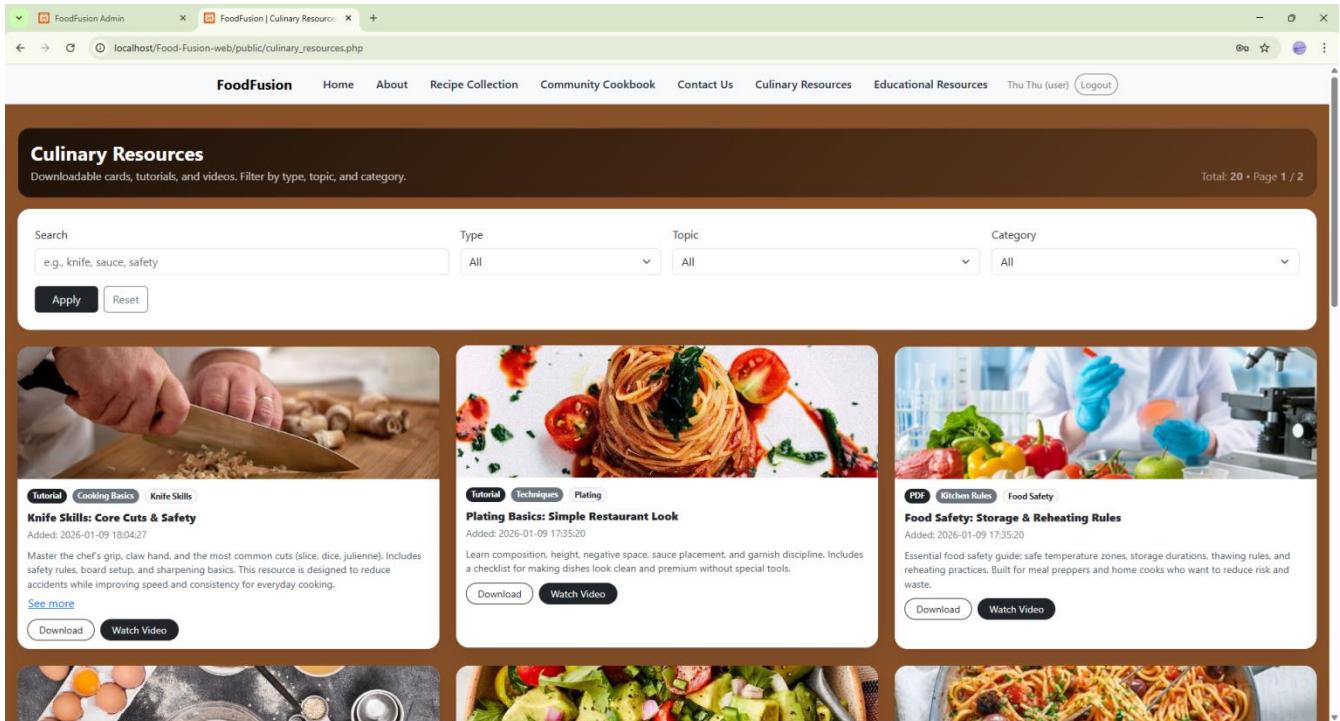


Figure 3.85

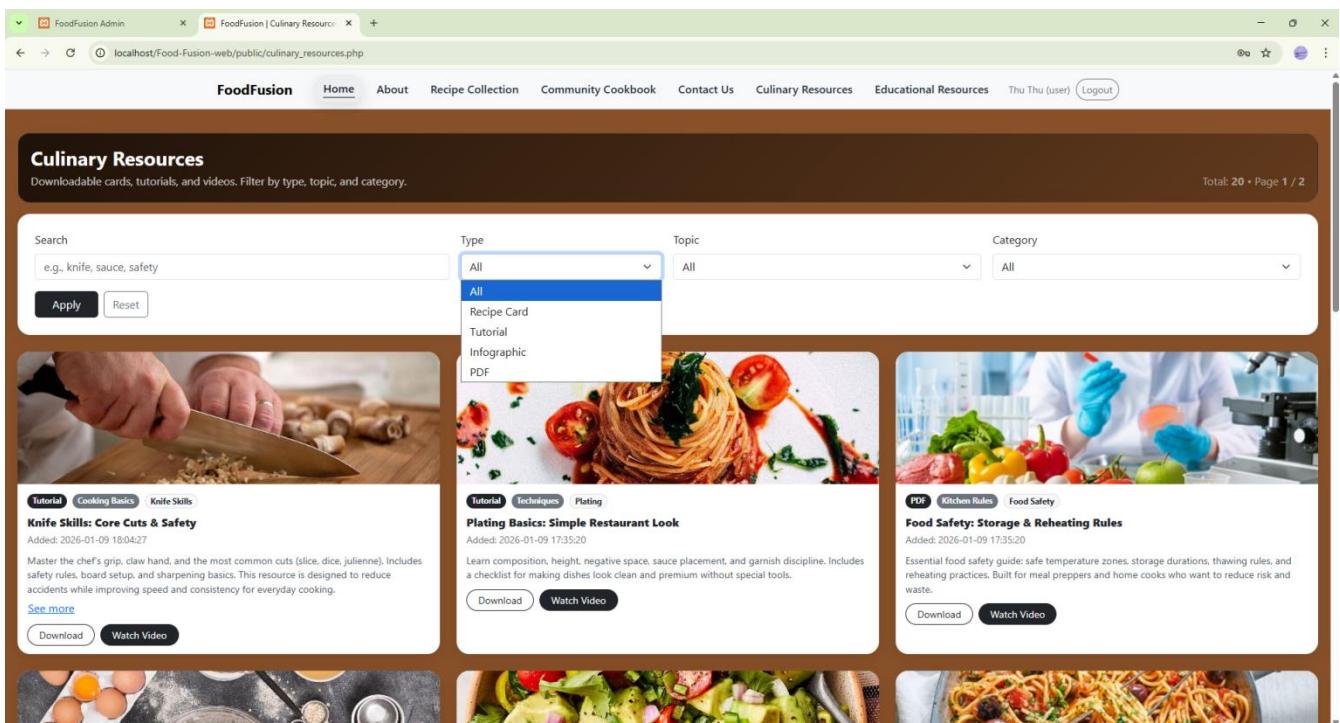


Figure 3.86

The screenshot shows the FoodFusion Culinary Resources page. At the top, there is a search bar with placeholder text "e.g., knife, sauce, safety", a "Type" dropdown set to "All", and a "Topic" dropdown also set to "All". A dropdown menu for "Topic" is open, listing categories such as All, Baking, Food Safety, Italian, Knife Skills, Meal Prep, Plating, Salads, Sauces, and Stir-Fry. To the right of the search area, there is a "Category" dropdown set to "All". Below the search area, there are four cards representing different culinary resources:

- Knife Skills: Core Cuts & Safety**: Includes a photo of hands chopping mushrooms, a "Tutorial" button, a "Cooking Basics" button, and a "Knife Skills" button. It was added on 2026-01-09 at 18:04:27. Description: Master the chef's grip, claw hand, and the most common cuts (slice, dice, julienne). Includes safety rules, board setup, and sharpening basics. This resource is designed to reduce accidents while improving speed and consistency for everyday cooking.
- Plating Basics: Simple Restaurant Look**: Includes a photo of a plate of spaghetti with vegetables, a "Tutorial" button, a "Techniques" button, and a "Plating" button. It was added on 2026-01-09 at 17:35:20. Description: Learn composition, height, negative space, sauce placement, and garnish discipline. Includes a checklist for making dishes look clean and premium without special tools.
- Food Safety: Storage & Reheating Rules**: Includes a photo of a person in a lab coat handling food, a "PDF" button, a "Kitchen Rules" button, and a "Food Safety" button. It was added on 2026-01-09 at 17:35:20. Description: Essential food safety guide: safe temperature zones, storage durations, thawing rules, and reheating practices. Built for meal preppers and home cooks who want to reduce risk and waste.
- Food Safety: Storage & Reheating Rules**: This card appears to be a duplicate of the one above, with the same details and image.

Figure 3.87

This screenshot is identical to Figure 3.87, showing the FoodFusion Culinary Resources page. The main difference is that the "Category" dropdown is now open, displaying a list of categories including All, Cooking Basics, Cuisine Basics, Kitchen Rules, Planning, and Techniques. The other elements, such as the search bar, resource cards, and navigation menu, remain the same.

Figure 3.88

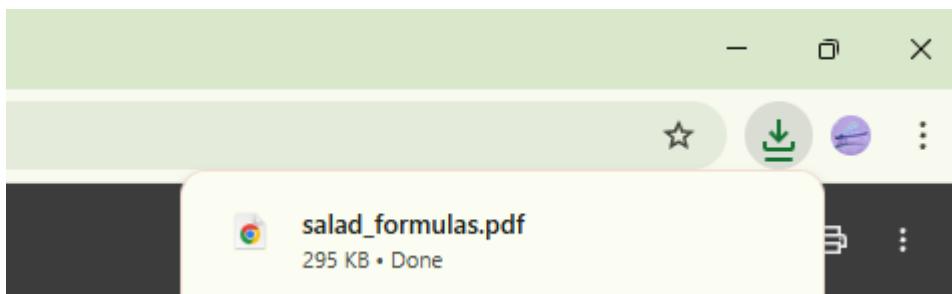


Figure 3.89

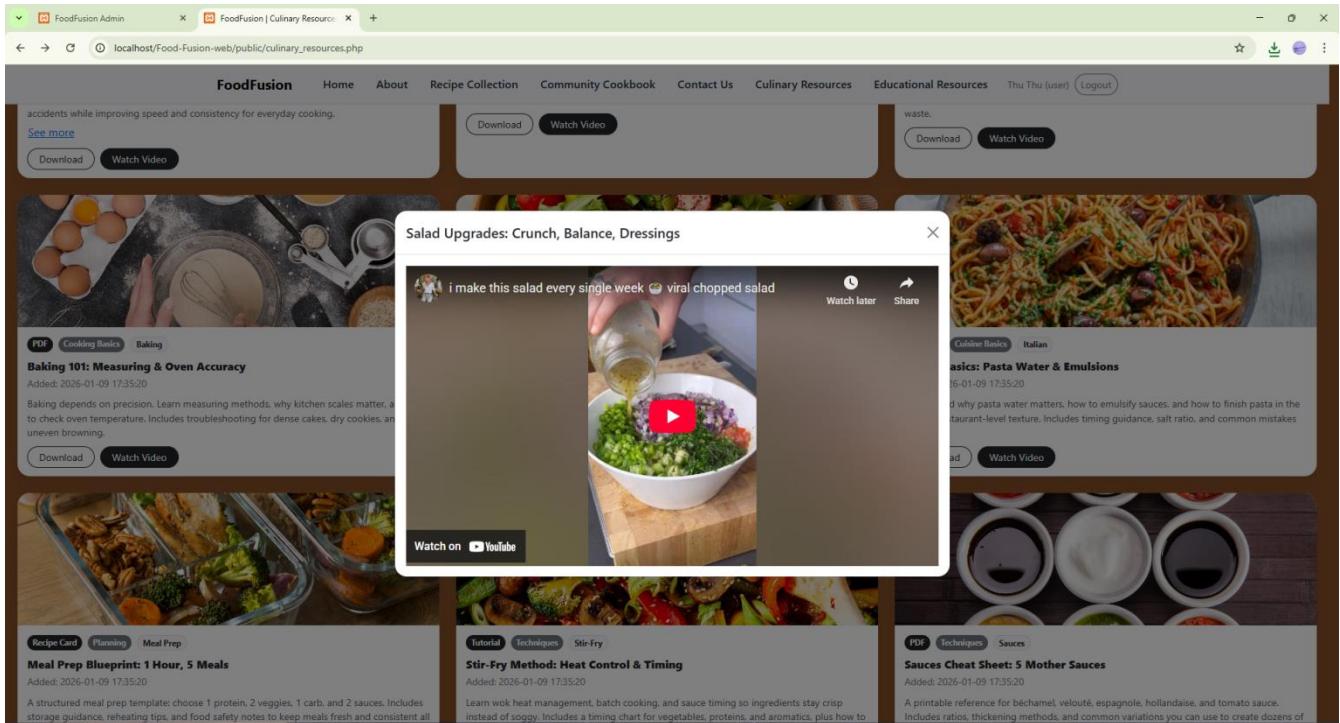


Figure 3.90

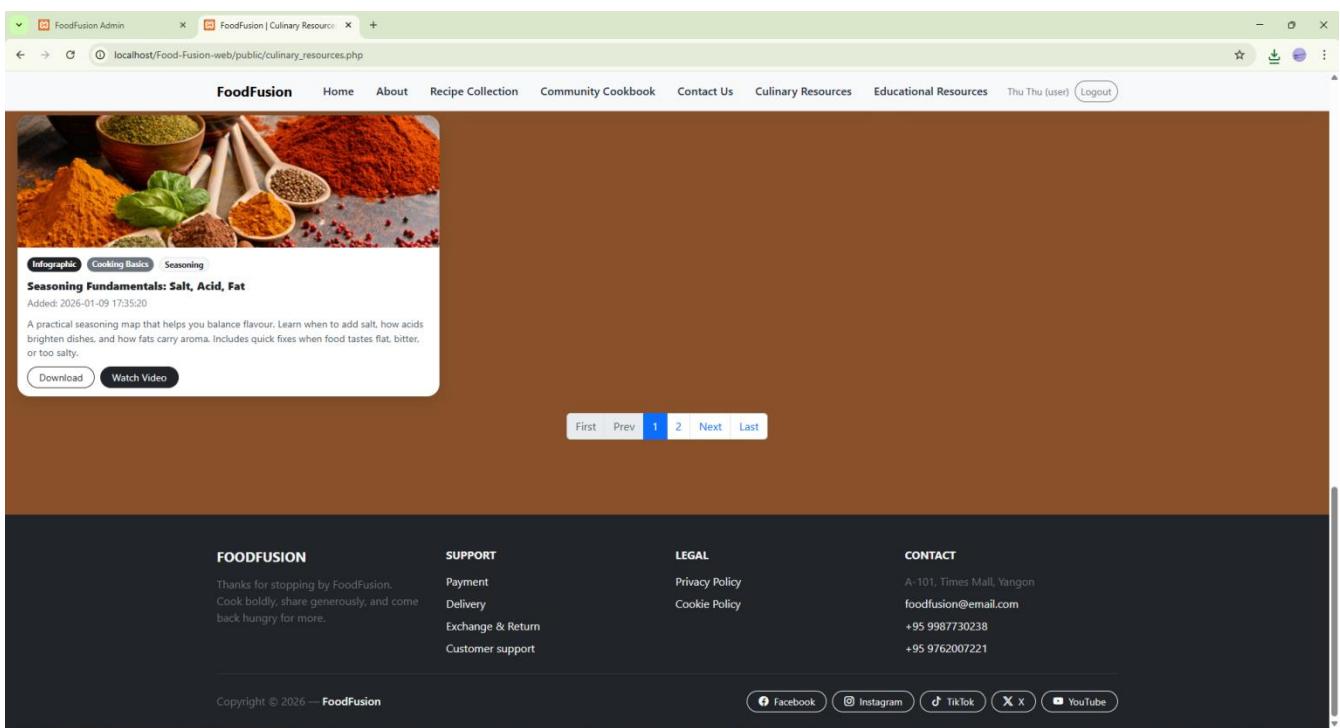


Figure 3.91

Dimensions: Responsive ▾ 375 × 858 100% ▾ No throttling ▾ 'Save-Data': default ▾

FoodFusion

Culinary Resources

Downloadable cards, tutorials, and videos.
Filter by type, topic, and category.

Total: 20 • Page 1 / 2

Search

Type

Topic

Category

Apply **Reset**



Figure 3.92

Dimensions: Responsive ▾ 375 × 858 100% ▾ No throttling ▾ 'Save-Data': default ▾ 

FoodFusion

Culinary Resources

Downloadable cards, tutorials, and videos.
Filter by type, topic, and category.

Total: 20 • Page 1 / 2

Search

e.g., knife, sauce, safety

Type

All

All

Recipe Card

Tutorial

Infographic

PDF

All

Apply

Reset



Figure 3.93

educational resources(educational_resources.php)

```

C:\xampp\htdocs\Food-Fusion-web\public\educational_resources.php (Food-Fusion-web) - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
└── Food-Fusion-web
    ├── admin
    ├── config
    └── db_setup
    └── Header/footer
        ├── footer.php
        └── header.php
    └── photo
        ├── aboutus.php
        ├── community_cookbook.php
        ├── contact.php
        ├── cookies.php
        ├── create_admin.php
        ├── culinary_resources.php
        └── educational_resources.php
    └── login.php
    └── privacy.php
    └── recipe_collection.php
    └── register.php
└── uploads
└── index.php

1 <?php
2 declare(strict_types=1);
3
4 error_reporting(E_ALL);
5 ini_set('display_errors', '1');
6
7 if (session_status() === PHP_SESSION_NONE) session_start();
8
9 require_once __DIR__ . '/..config/config.php'; // Sudo
10
11 // PROJECT constants
12 $PROJECT_BASE = '/Food-Fusion-web'; // project folder name (case-sensitive)
13 $APP_ROOT = realpath(__DIR__ . '/../'); // c:\xampp\htdocs\Food-Fusion-web
14 $HTTP_PORT = 30;
15
16 // normalize_slashes function
17 if (function_exists('normalize_slashes')) {
18     function normalize_slashes(string $path): string {
19         if ($path[0] === '/') return '';
20         if (preg_match('/^https?:\/\/[^\/]+', $path)) return $path; // absolute URL
21         $path = str_replace('~/', $PROJECT_BASE . '/', $path); // strip project prefix if stored
22         if ($path[0] === '/') $path = '/' . $path;
23         if ($path[-1] === '/') $path = $path . '/';
24         return $path;
25     }
26 }
27
28 // function_redirect_with_toast(string $url, string $msg, string $type = 'danger'): void {
29     $url = str_replace('~/', $PROJECT_BASE . '/', $url);
30     header('Location: ' . $url . '#toast-' . rawurlencode($msg) . '&type=' . rawurlencode($type));
31     exit();
32 }
33
34 function is_safe_local_file(string $appPath, string $normalizedPath): bool {
35     $full = realpath($appPath . $normalizedPath);
36     if ($full === false) return false;
37     if ($full === $appPath) return true;
38
39     $root = str_replace('\\', '/', $full);
40     $full = str_replace('\\', '/', $full);
41
42     return str_starts($full, $root . '/');
43 }
44
45 // -----
46 // DOWNLOAD FUNCTIONS (MUST RUN BEFORE HEADER.php OUTPUT)
47 // -----
48 if (isset($_GET['download'])) {
49     $id = (int)$_GET['download'] ?? 0;
50
51     if ($id === 0) {
52         redirect_with_toast('educational_resources.php', 'invalid download request.', 'danger');
53     }
54
55     $stt = $pdo->prepare("SELECT file_url FROM educational_resources WHERE resource_id=:id AND is_active=1 LIMIT 1");
56     $stt->execute(['id' => $id]);
57     $fileRaw = $stt->fetchColumn() ?? '';
58
59     if ($fileRaw === '') {
60         redirect_with_toast('educational_resources.php', 'download file is not available for this resource.', 'warning');
61     }
62
63     $fileRaw = normalize_asset($fileRaw);
64
65     // log download (best effort)
66     try {
67         $userId = empty($_SESSION['user_id']) ? null : (int)$_SESSION['user_id'];
68         $ip = $_SERVER['HTTP_USER_AGENT'] ?? null;
69
70         $userIp = empty($_SESSION['user_ip']) ? null : $_SESSION['user_ip'];
71         $userAgent = $_SERVER['HTTP_USER_AGENT'] ?? null;
72
73         log_download($best_effort);
74     } catch (Exception $e) {
75         error_log("download log failed: " . $e->getMessage());
76     }
77
78     // local file existence check
79     if (!file_exists($fileRaw)) {
80         if ($APP_ROOT === false || !is_file($APP_ROOT . $fileRaw)) {
81             redirect_with_toast('educational_resources.php', 'Download file is missing on the server. Please contact support.', 'danger');
82         }
83         header('Location: ' . $PROJECT_BASE . $fileRaw);
84     }
85
86     // -----
87     // PAGE OUTPUT (SAFE TO INCLUDE HEADER.php)
88     // -----
89     $pageTitle = 'Foodfusion | Educational Resources';
90     require_once __DIR__ . '/../header/footer/header.php';
91
92     // -----
93     // FILTERS + PAGINATION
94     // -----
95     $page = (int)($_GET['page'] ?? 1);
96     if ($page < 1) $page = 1;
97
98     $where = [];
99     $params = [];
100
101     if (is_array($_GET)) {
102         foreach ($_GET as $key => $value) {
103             if ($key === 'title' || $key === 'description') {
104                 $params[] = ':'.key();
105                 $where[] = $key . ' LIKE :'.key();
106             }
107             if ($key === 'topic') {
108                 $params[] = ':'.key();
109                 $where[] = 'topic_id = :'.key();
110             }
111             if ($key === 'category') {
112                 $params[] = ':'.key();
113                 $where[] = 'category_id = :'.key();
114             }
115             if ($key === 'type') {
116                 $params[] = ':'.key();
117                 $where[] = 'resource_type = :'.key();
118             }
119         }
120
121         if (count($where) > 0) {
122             $where = ' WHERE ' . implode(' AND ', $where);
123         }
124     }
125
126     if ($where) {
127         $where[] = ' WHERE is_active=1';
128         $where = ' WHERE ' . implode(' AND ', $where);
129     }
130
131     // dropdown options
132     $dropdowns = [
133         'category' => $pdo->query("SELECT DISTINCT category_id FROM educational_resources WHERE is_active=1 ORDER BY category")->fetchAll(PDO::FETCH_COLUMN),
134         'topic' => $pdo->query("SELECT DISTINCT topic_id FROM educational_resources WHERE is_active=1 ORDER BY topic")->fetchAll(PDO::FETCH_COLUMN),
135         'type' => $pdo->query("SELECT DISTINCT type FROM educational_resources WHERE is_active=1 ORDER BY type")->fetchAll(PDO::FETCH_COLUMN),
136     ];
137
138     // -----
139     // QUERY
140     // -----
141     $query = "SELECT * FROM educational_resources WHERE is_active=1 $where ORDER BY id DESC LIMIT 10 OFFSET ".($page-1)*10;
142
143     $stmt = $pdo->query($query);
144     $stmt->execute($params);
145
146     $rows = $stmt->fetchAll(PDO::FETCH_ASSOC);
147
148     $totalRows = $stmt->rowCount();
149
150     $pageLinks = paginate($totalRows, $page, 5);
151
152     $data = [
153         'rows' => $rows,
154         'dropdowns' => $dropdowns,
155         'pageLinks' => $pageLinks,
156     ];
157
158     $response = [
159         'status' => 'success',
160         'data' => $data,
161     ];
162
163     echo json_encode($response);
164 }

```

Figure 3.94

```

C:\xampp\htdocs\Food-Fusion-web\public\educational_resources.php (Food-Fusion-web) - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
└── Food-Fusion-web
    ├── admin
    ├── config
    └── db_setup
    └── Header/footer
        ├── footer.php
        └── header.php
    └── photo
        ├── aboutus.php
        ├── community_cookbook.php
        ├── contact.php
        ├── cookies.php
        ├── create_admin.php
        ├── culinary_resources.php
        └── educational_resources.php
    └── login.php
    └── privacy.php
    └── recipe_collection.php
    └── register.php
└── uploads
└── index.php

1 <?php
2 declare(strict_types=1);
3
4 error_reporting(E_ALL);
5 ini_set('display_errors', '1');
6
7 if (session_status() === PHP_SESSION_NONE) session_start();
8
9 require_once __DIR__ . '/..config/config.php'; // Sudo
10
11 // PROJECT constants
12 $PROJECT_BASE = '/Food-Fusion-web'; // project folder name (case-sensitive)
13 $APP_ROOT = realpath(__DIR__ . '/../'); // c:\xampp\htdocs\Food-Fusion-web
14 $HTTP_PORT = 30;
15
16 // normalize_slashes function
17 if (function_exists('normalize_slashes')) {
18     function normalize_slashes(string $path): string {
19         if ($path[0] === '/') return '';
20         if (preg_match('/^https?:\/\/[^\/]+', $path)) return $path; // absolute URL
21         $path = str_replace('~/', $PROJECT_BASE . '/', $path); // strip project prefix if stored
22         if ($path[0] === '/') $path = '/' . $path;
23         if ($path[-1] === '/') $path = $path . '/';
24         return $path;
25     }
26 }
27
28 // function_redirect_with_toast(string $url, string $msg, string $type = 'danger'): void {
29     $url = str_replace('~/', $PROJECT_BASE . '/', $url);
30     header('Location: ' . $url . '#toast-' . rawurlencode($msg) . '&type=' . rawurlencode($type));
31     exit();
32 }
33
34 function is_safe_local_file(string $appPath, string $normalizedPath): bool {
35     $full = realpath($appPath . $normalizedPath);
36     if ($full === false) return false;
37     if ($full === $appPath) return true;
38
39     $root = str_replace('\\', '/', $full);
40     $full = str_replace('\\', '/', $full);
41
42     return str_starts($full, $root . '/');
43 }
44
45 // -----
46 // DOWNLOAD FUNCTIONS (MUST RUN BEFORE HEADER.php OUTPUT)
47 // -----
48 if (isset($_GET['download'])) {
49     $id = (int)$_GET['download'] ?? 0;
50
51     if ($id === 0) {
52         redirect_with_toast('educational_resources.php', 'invalid download request.', 'danger');
53     }
54
55     $stt = $pdo->prepare("SELECT file_url FROM educational_resources WHERE resource_id=:id AND is_active=1 LIMIT 1");
56     $stt->execute(['id' => $id]);
57     $fileRaw = $stt->fetchColumn() ?? '';
58
59     if ($fileRaw === '') {
60         redirect_with_toast('educational_resources.php', 'download file is not available for this resource.', 'warning');
61     }
62
63     $fileRaw = normalize_asset($fileRaw);
64
65     // log download (best effort)
66     try {
67         $userId = empty($_SESSION['user_id']) ? null : (int)$_SESSION['user_id'];
68         $ip = $_SERVER['HTTP_USER_AGENT'] ?? null;
69
70         $userIp = empty($_SESSION['user_ip']) ? null : $_SESSION['user_ip'];
71         $userAgent = $_SERVER['HTTP_USER_AGENT'] ?? null;
72
73         log_download($best_effort);
74     } catch (Exception $e) {
75         error_log("download log failed: " . $e->getMessage());
76     }
77
78     // local file existence check
79     if (!file_exists($fileRaw)) {
80         if ($APP_ROOT === false || !is_file($APP_ROOT . $fileRaw)) {
81             redirect_with_toast('educational_resources.php', 'Download file is missing on the server. Please contact support.', 'danger');
82         }
83         header('Location: ' . $PROJECT_BASE . $fileRaw);
84     }
85
86     // -----
87     // PAGE OUTPUT (SAFE TO INCLUDE HEADER.php)
88     // -----
89     $pageTitle = 'Foodfusion | Educational Resources';
90     require_once __DIR__ . '/../header/footer/header.php';
91
92     // -----
93     // FILTERS + PAGINATION
94     // -----
95     $page = (int)($_GET['page'] ?? 1);
96     if ($page < 1) $page = 1;
97
98     $where = [];
99     $params = [];
100
101     if (is_array($_GET)) {
102         foreach ($_GET as $key => $value) {
103             if ($key === 'title' || $key === 'description') {
104                 $params[] = ':'.key();
105                 $where[] = $key . ' LIKE :'.key();
106             }
107             if ($key === 'topic') {
108                 $params[] = ':'.key();
109                 $where[] = 'topic_id = :'.key();
110             }
111             if ($key === 'category') {
112                 $params[] = ':'.key();
113                 $where[] = 'category_id = :'.key();
114             }
115             if ($key === 'type') {
116                 $params[] = ':'.key();
117                 $where[] = 'resource_type = :'.key();
118             }
119         }
120
121         if (count($where) > 0) {
122             $where = ' WHERE ' . implode(' AND ', $where);
123         }
124     }
125
126     if ($where) {
127         $where[] = ' WHERE is_active=1';
128         $where = ' WHERE ' . implode(' AND ', $where);
129     }
130
131     // dropdown options
132     $dropdowns = [
133         'category' => $pdo->query("SELECT DISTINCT category_id FROM educational_resources WHERE is_active=1 ORDER BY category")->fetchAll(PDO::FETCH_COLUMN),
134         'topic' => $pdo->query("SELECT DISTINCT topic_id FROM educational_resources WHERE is_active=1 ORDER BY topic")->fetchAll(PDO::FETCH_COLUMN),
135         'type' => $pdo->query("SELECT DISTINCT type FROM educational_resources WHERE is_active=1 ORDER BY type")->fetchAll(PDO::FETCH_COLUMN),
136     ];
137
138     // -----
139     // QUERY
140     // -----
141     $query = "SELECT * FROM educational_resources WHERE is_active=1 $where ORDER BY id DESC LIMIT 10 OFFSET ".($page-1)*10;
142
143     $stmt = $pdo->query($query);
144     $stmt->execute($params);
145
146     $rows = $stmt->fetchAll(PDO::FETCH_ASSOC);
147
148     $totalRows = $stmt->rowCount();
149
150     $pageLinks = paginate($totalRows, $page, 5);
151
152     $data = [
153         'rows' => $rows,
154         'dropdowns' => $dropdowns,
155         'pageLinks' => $pageLinks,
156     ];
157
158     $response = [
159         'status' => 'success',
160         'data' => $data,
161     ];
162
163     echo json_encode($response);
164 }

```

Figure 3.95

```

134 // dropdown options */
135 $optTopics = $pdo->prepare("SELECT DISTINCT topic FROM educational_resources WHERE is_active=1 ORDER BY topic");
136 $optTopics->execute();
137 $optTopics->fetchColumn();
138 $optTopics->close();
139
140 /* total count */
141 $cntSql = $pdo->prepare("SELECT COUNT(*) FROM educational_resources WHERE is_active=1");
142 $cntSql->execute();
143 $total = ($cntSql->fetchColumn());
144
145 $totalPages = ceil($total / $PER_PAGE);
146 if ($page > $totalPages) $page = $totalPages;
147 $offset = ($page - 1) * $PER_PAGE;
148
149 /* list data */
150 $listSql = $pdo->prepare("SELECT resource_id, title, topic, category, resource_type,
151 description, thumbnail_url, file_url, video_url, created_at
152 FROM educational_resources
153 WHERE is_active=1
154 ORDER BY created_at DESC, resource_id DESC
155 LIMIT :PAGE_SIZE OFFSET :offset");
156
157 $listSql->bindParam(":PAGE_SIZE", $PER_PAGE);
158 $listSql->bindParam(":offset", $offset);
159
160 $list = $listSql->fetchAll(PDO::FETCH_ASSOC);
161
162 /* process query params (except page) */
163 $baseSq = $q.'&q=' . $topic . '&category=' . $category . '&type=' . $type;
164
165 function build_page_url($array $baseSq, int $page): string {
166     $sq = $baseSq;
167     $sq[Page] = $page;
168
169     foreach ($sq as $k => $v) {
170         if ($v === '' || $v === 'All') unset($sq[$k]);
171     }
172
173     return "educational_resources.php" . (empty($sq) ? '' : '?' . http_build_query($sq));
174 }
175
176 /* toast from GET */
177 $toastType = $request->get('toast') ?? '';
178 $toastType = in_array($request->get('type'), ['danger']);
179 $toastType = in_array($request->get('type'), ['success', 'info', 'warning', 'secondary', 'dark', 'primary'], true) ? $toastType : 'danger';
180
181
182 <style>
183 .er-toast {
184     width:100px; padding: 10px 10px 20px;
185     border-radius: 10px;
186     background: linear-gradient(135deg, rgba(0,0,0,.8), rgba(0,0,0,.25));
187     border: 1px solid rgba(255,255,255,.12);
188     color: white;
189     border: 1px solid rgba(255,255,255,.12);
190 }
191
192 .er-fills {
193     border: 1px solid rgba(0,0,0,.4);
194     border-radius: 10px;
195     background: #fff;
196     box-shadow: 0 1px 2px rgba(0,0,0,.06);
197     border: 1px solid #000;
198 }
199
200 .er-card {
201     border: 0;
202     border-radius: 10px;
203     outline: none;
204     background: #fff;
205     box-shadow: 0 1px 2px 0px rgba(0,0,0,.1);
206 }
207
208 .er-card:hover {
209     transform: translate(-2px); box-shadow: 0 1px 3px rgba(0,0,0,.14);
210 }
211
212 .er-thumb {
213     width:100px; height: auto; object-fit: cover; background-size: cover; display: block;
214 }
215
216 .er-body {
217     padding: 10px 10px 10px; display: flex; flex-direction: column; gap: 10px;
218     align-items: center; justify-content: center; item-align: center; line-height: 1.4;
219 }
220
221 .er-meta {
222     font-size: 0.8em; color: #ccc;
223 }
224
225 .er-desc {
226     font-size: 1.2em; color: #bbbbaa; line-height: 1.4;
227 }
228 .er-desc short {
229     display: inline-block; width: 100%; box-orient: vertical; overflow: hidden;
230     white-space: nowrap; line-clamp: 1; line-clamp: 1;
231 }
232 .er-desc full {
233     display: block; white-space: pre-line;
234 }
235 .er-bages {
236     border: 1px solid #ccc; border-radius: 10px; padding: 5px; background: #fff;
237     margin: 10px 0; display: flex; flex-wrap: wrap; gap: 10px;
238 }
239 .er-actions {
240     border: 1px solid #ccc; padding: 5px; border-radius: 10px;
241 }
242
243 .er-toast-wrap {
244     position: fixed; top: 0; left: 0; right: 0; bottom: 0; width: 100%; height: 100%; z-index: 99999;
245     background-color: black; opacity: 0.8; display: flex; align-items: center; justify-content: center;
246 }
247
248 <div class="er-toast-wrap">
249 <div class="er-toast">
250 <?php if ($toasting != '') :>
251 <div class="er-toast"><div align="center" text-align="center" style="background-color: #fff; border: 1px solid #ccc; padding: 10px; border-radius: 10px; width: fit-content; margin: auto; text-align: center; font-weight: bold; font-size: 1.2em; color: #bbbbaa; line-height: 1.4; position: relative; z-index: 1; ">
252 <div class="toast-body"><?php echo $toast; ?>
253 <button type="button" class="btn-close btn-close-white me-2 m-auto" data-bs-dismiss="toast" aria-label="Close"></button>
254 </div>
255 </div>
256 </div>
257 </div>
258 </div>
259 <script>
260 document.addEventListener('DOMContentLoaded', function(){
261 const t = document.getElementById('erToast');
262 if (t) window.bootstrap(new bootstrap.Toast(t, { delay: 5500 })).show();
263 });
264 </script>
265
266 <div class="container-fluid er-wrap">
267 <div class="d-flex flex-column flex-md-row justify-content-between gap-2">
268 <div class="h3 fw-bold mb-1">Educational Resources</h3>
269 <div class="opacity-75">
270 <ul style="list-style-type: none; padding-left: 0; margin: 0; display: flex; gap: 10px; align-items: center; justify-content: space-between; width: 100%;">
271 <li>
272 <div class="text-white se align-self-end">
273 <total><?php echo ($int)total / $PER_PAGE . Page . '<br>' . ($int)page . '<br>' . ($int)totalPages . '></total>
274 </div>
275 </li>
276 </ul>
277 </div>

```

Figure 3.96

```

134 // dropdown options */
135 $optTopics = $pdo->prepare("SELECT DISTINCT topic FROM educational_resources WHERE is_active=1 ORDER BY topic");
136 $optTopics->execute();
137 $optTopics->fetchColumn();
138 $optTopics->close();
139
140 /* total count */
141 $cntSql = $pdo->prepare("SELECT COUNT(*) FROM educational_resources WHERE is_active=1");
142 $cntSql->execute();
143 $total = ($cntSql->fetchColumn());
144
145 $totalPages = ceil($total / $PER_PAGE);
146 if ($page > $totalPages) $page = $totalPages;
147 $offset = ($page - 1) * $PER_PAGE;
148
149 /* list data */
150 $listSql = $pdo->prepare("SELECT resource_id, title, topic, category, resource_type,
151 description, thumbnail_url, file_url, video_url, created_at
152 FROM educational_resources
153 WHERE is_active=1
154 ORDER BY created_at DESC, resource_id DESC
155 LIMIT :PAGE_SIZE OFFSET :offset");
156
157 $listSql->bindParam(":PAGE_SIZE", $PER_PAGE);
158 $listSql->bindParam(":offset", $offset);
159
160 $list = $listSql->fetchAll(PDO::FETCH_ASSOC);
161
162 /* process query params (except page) */
163 $baseSq = $q.'&q=' . $topic . '&category=' . $category . '&type=' . $type;
164
165 function build_page_url($array $baseSq, int $page): string {
166     $sq = $baseSq;
167     $sq[Page] = $page;
168
169     foreach ($sq as $k => $v) {
170         if ($v === '' || $v === 'All') unset($sq[$k]);
171     }
172
173     return "educational_resources.php" . (empty($sq) ? '' : '?' . http_build_query($sq));
174 }
175
176 /* toast from GET */
177 $toastType = $request->get('toast') ?? '';
178 $toastType = in_array($request->get('type'), ['danger']);
179 $toastType = in_array($request->get('type'), ['success', 'info', 'warning', 'secondary', 'dark', 'primary'], true) ? $toastType : 'danger';
180
181
182 <style>
183 .er-toast {
184     width:100px; padding: 10px 10px 20px;
185     border-radius: 10px;
186     background: linear-gradient(135deg, rgba(0,0,0,.8), rgba(0,0,0,.25));
187     border: 1px solid rgba(255,255,255,.12);
188     color: white;
189     border: 1px solid rgba(255,255,255,.12);
190 }
191
192 .er-fills {
193     border: 1px solid rgba(0,0,0,.4);
194     border-radius: 10px;
195     background: #fff;
196     box-shadow: 0 1px 2px rgba(0,0,0,.06);
197     border: 1px solid #000;
198 }
199
200 .er-card {
201     border: 0;
202     border-radius: 10px;
203     outline: none;
204     background: #fff;
205     box-shadow: 0 1px 2px 0px rgba(0,0,0,.1);
206 }
207
208 .er-card:hover {
209     transform: translate(-2px); box-shadow: 0 1px 3px rgba(0,0,0,.14);
210 }
211
212 .er-thumb {
213     width:100px; height: auto; object-fit: cover; background-size: cover; display: block;
214 }
215
216 .er-body {
217     padding: 10px 10px 10px; display: flex; flex-direction: column; gap: 10px;
218     align-items: center; justify-content: center; item-align: center; line-height: 1.4;
219 }
220
221 .er-meta {
222     font-size: 0.8em; color: #ccc;
223 }
224
225 .er-desc {
226     font-size: 1.2em; color: #bbbbaa; line-height: 1.4;
227 }
228 .er-desc short {
229     display: inline-block; width: 100%; box-orient: vertical; overflow: hidden;
230     white-space: nowrap; line-clamp: 1; line-clamp: 1;
231 }
232 .er-desc full {
233     display: block; white-space: pre-line;
234 }
235 .er-bages {
236     border: 1px solid #ccc; border-radius: 10px; padding: 5px; background: #fff;
237     margin: 10px 0; display: flex; flex-wrap: wrap; gap: 10px;
238 }
239 .er-actions {
240     border: 1px solid #ccc; padding: 5px; border-radius: 10px;
241 }
242
243 .er-toast-wrap {
244     position: fixed; top: 0; left: 0; right: 0; bottom: 0; width: 100%; height: 100%; z-index: 99999;
245     background-color: black; opacity: 0.8; display: flex; align-items: center; justify-content: center;
246 }
247
248 <div class="er-toast-wrap">
249 <div class="er-toast">
250 <?php if ($toasting != '') :>
251 <div class="er-toast"><div align="center" text-align="center" style="background-color: #fff; border: 1px solid #ccc; padding: 10px; border-radius: 10px; width: fit-content; margin: auto; text-align: center; font-weight: bold; font-size: 1.2em; color: #bbbbaa; line-height: 1.4; position: relative; z-index: 1; ">
252 <div class="toast-body"><?php echo $toast; ?>
253 <button type="button" class="btn-close btn-close-white me-2 m-auto" data-bs-dismiss="toast" aria-label="Close"></button>
254 </div>
255 </div>
256 </div>
257 </div>
258 </div>
259 <script>
260 document.addEventListener('DOMContentLoaded', function(){
261 const t = document.getElementById('erToast');
262 if (t) window.bootstrap(new bootstrap.Toast(t, { delay: 5500 })).show();
263 });
264 </script>
265
266 <div class="container-fluid er-wrap">
267 <div class="d-flex flex-column flex-md-row justify-content-between gap-2">
268 <div class="h3 fw-bold mb-1">Educational Resources</h3>
269 <div class="opacity-75">
270 <ul style="list-style-type: none; padding-left: 0; margin: 0; display: flex; gap: 10px; align-items: center; justify-content: space-between; width: 100%;">
271 <li>
272 <div class="text-white se align-self-end">
273 <total><?php echo ($int)total / $PER_PAGE . Page . '<br>' . ($int)page . '<br>' . ($int)totalPages . '></total>
274 </div>
275 </li>
276 </ul>
277 </div>

```

Figure 3.97

C:\xampp\htdocs\Food-Fusion-web\public\educational_resources.php (Food-Fusion-web) - Sublime Text (UNREGISTERED)

```

FOLDERS
└── Food-Fusion-web
    ├── admin
    ├── config
    ├── db_setup
    └── Header/Footer
        ├── footer.php
        └── header.php
    ├── photo
    ├── public
        ├── aboutus.php
        ├── community_cookbook.php
        ├── contact.php
        ├── cookies.php
        ├── create_admin.php
        ├── culinary_resources.php
        ├── educational_resources.php
        ├── index.php
        ├── login.php
        ├── privacy.php
        ├── recipe_collection.php
        └── register.php
    ├── uploads
    └── index.php

1 Line 30, Column 1
Spaces: 2 PHP

```

Figure 3.98

C:\xampp\htdocs\Food-Fusion-web\public\educational_resources.php (Food-Fusion-web) - Sublime Text (UNREGISTERED)

```

FOLDERS
└── Food-Fusion-web
    ├── admin
    ├── config
    ├── db_setup
    └── Header/Footer
        ├── footer.php
        └── header.php
    ├── photo
    ├── public
        ├── aboutus.php
        ├── community_cookbook.php
        ├── contact.php
        ├── cookies.php
        ├── create_admin.php
        ├── culinary_resources.php
        ├── educational_resources.php
        ├── index.php
        ├── login.php
        ├── privacy.php
        ├── recipe_collection.php
        └── register.php
    ├── uploads
    └── index.php

1 Line 30, Column 1
Spaces: 2 PHP

```

Figure 3.99

```
File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
  - admin
  - config
  - db_setup
  - HeaderFooter
    - footer.php
    - header.php
  - photo
  - public
    - aboutus.php
    - community_cookbook.php
    - contact.php
    - cookies.php
    - create_admin.php
    - culinary_resources.php
    - educational_resources.php
    - login.php
    - privacy.php
    - recipe_collection.php
    - register.php
  - uploads
  - index.php

Line 30, Column 1
Spaces: 2
PHP
```

Figure 3.100

```
File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
  - admin
  - config
  - db_setup
  - HeaderFooter
    - footer.php
    - header.php
  - photo
  - public
    - aboutus.php
    - community_cookbook.php
    - contact.php
    - cookies.php
    - create_admin.php
    - culinary_resources.php
    - educational_resources.php
    - login.php
    - privacy.php
    - recipe_collection.php
    - register.php
  - uploads
  - index.php

Line 30, Column 1
Spaces: 2
PHP
```

Figure 3.101

```

C:\xampp\htdocs\Food-Fusion-web\public\educational_resources.php (Food-Fusion-web) - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
  - admin
  - config
  - db_setup
  - Header/Footer
    - footer.php
    - header.php
  - photo
  - public
    - aboutus.php
    - community_cookbook.php
    - contact.php
    - cookies.php
    - create_admin.php
    - culinary_resources.php
    - educational_resources.php
    - login.php
    - privacy.php
    - recipe_collection.php
    - register.php
  - uploads
  - index.php
Line 30, Column 1
534 <button type="button" class="btn-close btn-close-white me-2 m-auto" data-bs-dismiss="toast" aria-label="Close"></button>
535 </div>
536 </div>
537 const t = wrapBootstrapModal();
538 new bootstrap.Toast(t, { delay: 4000 }).show();
539 t.addEventListener('hidden.bs.toast', () => t.remove());
540
541 // Video modal embed + basic validation
542 const videoModal = document.getElementById('videomodal');
543 if (videoModal) {
544   videoModal.addEventListener('show.bs.modal', function (event) {
545     const url = event.relatedTarget.getAttribute('data-video');
546     const title = event.relatedTarget.getAttribute('data-title') || '';
547     const videoTitle = document.getElementById('videotitle').textContent;
548     if (!url) {
549       showToastr('Video link is not available for this resource.', 'warning');
550       document.getElementById('videoframe').src = '';
551       return;
552     }
553     let embed = url;
554     try {
555       const u = new URL(url);
556       const v = u.searchParams.get('v');
557       if (v) embed = `https://www.youtube.com/embed/${v}`;
558       if (url.includes('youtube.be')) {
559         embed = `https://www.youtube.be/${url.split('/')[1].split('?')[0]}`;
560       }
561     } catch (e) {
562       showToastr(`Invalid video link format.`, 'danger');
563     }
564     document.getElementById('videoframe').src = embed;
565   });
566   videoModal.addEventListener('hidden.bs.modal', function () {
567     document.getElementById('videoframe').src = '';
568   });
569 }
570 </script>
571 <?php require_once __DIR__ . '/../../header&footer/footer.php'; ?>
572

```

Figure 3.102

Educational Resources

Downloadable resources, infographics, and videos on renewable energy topics.

Total: 19 • Page 1 / 2

Search	Type	Topic	Category
e.g., solar, wind, grid, battery	All	All	All
Apply	Reset		

LIFE CYCLE ASSESSMENT (LCA) FOR RENEWABLES

1. WHAT IT IS
A method to evaluate environmental impacts of a product from manufacturing to disposal.

2. LCA STAGES FOR RENEWABLES

- Raw Material Extraction
- Use & Maintenance
- End-of-Life Disposal

3. KEY FINDINGS

- Emissions**: Vast majority of emissions occur in manufacturing. Very low operational emissions.
- Energy Payback Time**: Renewable systems 'pay back' their energy in their creation typically in 4 years.
- Overall Impact**: Significantly lower lifetime environmental impact than fossil fuels, despite manufacturing footprint.

ENERGY EFFICIENCY BASICS

1. WHAT IT IS
Same Service, Less Energy Input

2. KEY BENEFITS

- Financial Savings**: Lower utility bills
- Increased Comfort**: Better temperature regulation
- Reduced Costs & Emissions**
- Environmental Impact**: Reduces carbon footprint

COMMON EXAMPLES

- LED Lighting Upgrades
- High-Efficiency Weatherstripping

SOLAR THERMAL VS. SOLAR PV

Comparing Solar Energy Technologies

SOLAR THERMAL

1. HOW IT WORKS: Concentrates sunlight to heat, creating steam to drive a turbine.

2. ENERGY STORAGE: Integrated molten salt storage provides dispatchable power.

SOLAR PV

1. HOW IT WORKS: Photovoltaic (PV) cells convert sunlight directly into DC electricity.

2. ENERGY STORAGE: Paired with batteries for electricity storage.

Figure 3.103

POLICY FIT: RENEWABLE ENERGY AUCTIONS

1. HOW IT WORKS

- Competitive Bidding: Developers bid price to supply electricity
- Government Selects Bids: Lowest cost bids win long-term contracts (PPAs)
- Project Development: Lowest cost supply clean power (PPAs)
- Winning projects built, supply clean power to grid

2. BEST FIT

- Cost Reduction: Drives down electricity prices
- Scale & Investment: Attracts large-scale capital
- Policy Targets: Reliable way to meet renewable goals

KEY CONSIDERATIONS

- Market maturity & competition
- Project diversity (tech, sizes)
- Grid integration challenges

GREEN HYDROGEN EXPLAINED

1. HOW IT'S MADE

2. KEY USES

KEY BENEFITS

- Decarbonizes hard-to-abate sectors
- Energy storage & grid balancing
- Versatile, clean fuel

Migrorids: Case Study & Worksheet
Local Generation, Storage, and Control Systems

Scenario Questions

- When would the microgrid switch to Island mode?
- How does the microgrid provide resilience during the outage?
- If generation is limited, how does the control system prioritize critical loads?

Group Discussion Notes

Assignment Evidence

Worksheet Case Study Grid

Microgrids: Renewable Power for Communities (Worksheet)

POLICY FIT: FEED-IN TARIFFS VS AUCTIONS (Tutorial)

Hydrogen Basics: Green Hydrogen from Renewables

OFFSHORE WIND POWER

SOLAR PV SYSTEM DESIGN

Figure 3.104

POLICY FIT: FEED-IN TARIFFS VS AUCTIONS (Tutorial)

Hydrogen Basics: Green Hydrogen from Renewables

WHAT IS GREEN HYDROGEN?

OFFSHORE WIND POWER

SOLAR PV SYSTEM DESIGN

Figure 3.105

FoodFusion Home About Recipe Collection Community Cookbook Contact Us Culinary Resources Educational Resources Thu Thu (user) Logout

REFLECTION WRITING

- What's our grid's factor?
- Our project's avoided CO2?
- Impact of new tech!

CALCULATION EXAMPLE

Solar Project: 10,000 kWh/year
Grid Factor: 0.5 kg CO2/kWh
Avoided CO2 = 10,000 ÷ 0.5 = 5,000 kg CO2/year ✓

Watch the Full Video

Video Basics Climate

Climate Impact: Avoided CO2 and Renewable Metrics (Video Notes)

Added: 2026-01-09 19:59:12

Explains common climate metrics used in renewable energy reporting: emissions factors, avoided CO2, and why the same kWh can have different emissions impact depending on the grid mix. Includes short notes for reflection writing and a simple calculation example for...

See more

Download Watch Video

First Prev 1 2 Next Last

FOOFUSION

Thanks for stopping by FoodFusion. Cook boldly, share generously, and come back hungry for more.

SUPPORT

- Payment
- Delivery
- Exchange & Return
- Customer support

LEGAL

- Privacy Policy
- Cookie Policy

CONTACT

A-101, Times Mall, Yangon
foodfusion@email.com
+95 9987730238
+95 9762007221

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Facebook Instagram TikTok X YouTube

Figure 3.106

FoodFusion Home About Recipe Collection Community Cookbook Contact Us Culinary Resources Educational Resources Thu Thu (user) Logout

Hydropower: Run-of-River vs Reservoir (Video Notes + PDF)

Added: 2026-01-09 19:59:12

Explains two major hydropower approaches—run-of-river and reservoir-based generation. Summarizes advantages, limitations, and environmental trade-offs (ecosystems, sediment, seasonal flow variation). Includes a short set of study notes and a comparison table for...

See more

Download Watch Video

Wind Turbine Anatomy (Infographic)

Added: 2026-01-09 19:59:12

A single-page visual guide to modern wind turbines: rotor blades, hub, nacelle, gearbox/direct-drive generator, yaw system, tower, and control systems. Explains cut-in speed, rated speed, cut-out speed, and why capacity factor matters for real energy output...

See more

Download Watch Video

Solar PV Basics: How Panels Generate Electricity

Added: 2026-01-09 19:59:12

A clear introduction to the photovoltaic effect and how solar panels convert sunlight into usable electricity. Covers key components (PV modules, inverter, mounting, wiring), common system types (grid-tied vs off-grid), and practical considerations such as shading, tilt angle,...

See more

Download Watch Video

First Prev 1 2 Next Last

FOOFUSION

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foodfusion@email.com
+95 9987730238
+95 9762007221

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Facebook Instagram TikTok X YouTube

Figure 3.107

Dimensions: Responsive ▾ 375 x 858 100% ▾ No throttling ▾ 'Save-Data': default ▾ ⏱

The screenshot shows a mobile application interface for 'FoodFusion'. At the top, there's a navigation bar with the app's logo and a three-line menu icon. Below the header, a dark brown rectangular area contains the title 'Educational Resources' in white, followed by a subtext: 'Downloadable resources, infographics, and videos on renewable energy topics.' and 'Total: 19 • Page 2 / 2'. The main content area has a white background and features a search bar with placeholder text 'e.g., solar, wind, grid, battery'. Below the search bar are four dropdown menus: 'Type' (set to 'All'), 'Topic' (set to 'All'), and 'Category' (set to 'All'). At the bottom of this section are two buttons: a dark blue 'Apply' button and a light blue 'Reset' button. At the very bottom of the screen, there's a horizontal card with the title 'ELECTRICAL SAFETY' in bold capital letters. This card is divided into two sections: '1. HAZARDS' on the left and '2. PREVENTION' on the right. The '1. HAZARDS' section includes a yellow warning sign with a lightning bolt, the text 'Electric Shock / Electrocution', and a bulleted list: '• Contact with live wires', '• Faulty appliances', and '• Water & electricity'. The '2. PREVENTION' section includes a red 'no smoking' sign, the text 'Use with Caution', and a bulleted list: '• Inspect cords regularly', '• Don't overload outlets', and '• Keep water away from outlets'. There are also small icons of a fire and a power outlet at the bottom of the card.

Figure 3.108

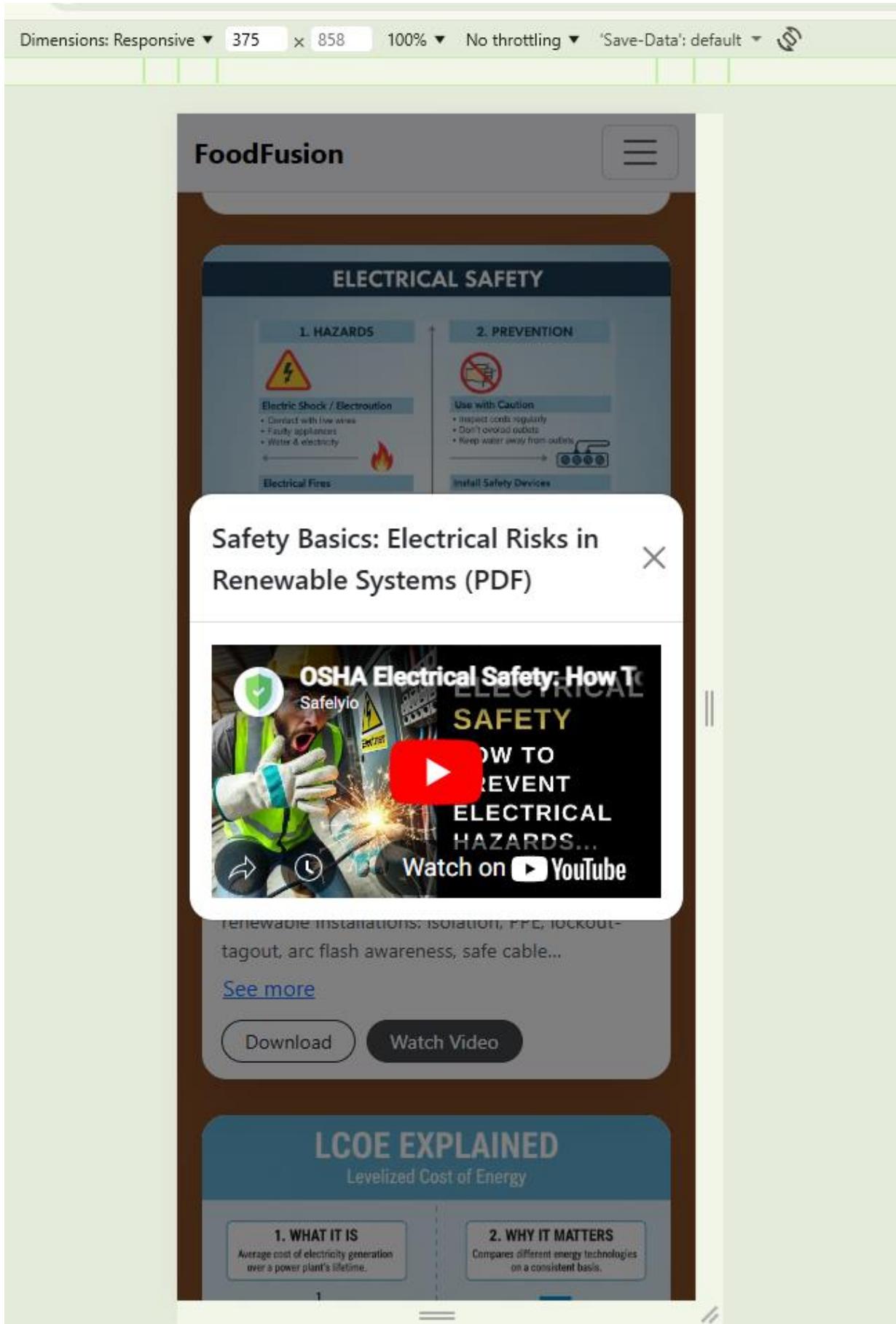


Figure 3.109

(a) "Sign up Now" pop-up

This screenshot shows the Sublime Text editor with the file 'header.php' open. The code displays a modal dialog for sign-up. It includes conditional logic for success or error messages, form fields for first name, last name, phone number, gender, and role, and dropdown menus for chef name and country. The modal is styled with Bootstrap classes like 'modal fade' and 'modal-dialog-centered'.

```

<!-- JOIN MODAL -->
<div class="modal fade" id="joinModal" tabindex="-1" aria-labelledby="joinModalTitle" aria-hidden="true">
  <div class="modal-dialog modal-dialog-centered modal-lg modal-dialog-scrollable">
    <div class="modal-content">
      <div class="modal-header">
        <h4 class="modal-title" id="joinModalTitle">Sign up for FoodFusion</h4>
        <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
      </div>
      <div class="modal-body">
        <p><small>If you're successful:</small> <small>If you're not:</small></p>
        <div><small>If you're successful:</small> <small>If you're not:</small></div>
        <form method="post" action="#">
          <div><small>First Name</small></div>
          <div><small>Last Name</small></div>
          <div><small>Phone</small></div>
          <div><small>Gender</small></div>
          <div><small>Role</small></div>
          <div><small>Chef Name</small></div>
          <div><small>Country</small></div>
        </form>
      </div>
    </div>
  </div>
</div>

```

Figure 4.1

This screenshot shows the Sublime Text editor with the file 'header.php' open, displaying the same modal dialog code as Figure 4.1. The code structure and components are identical, including the form fields and dropdown menus for user registration.

```

<!-- JOIN MODAL -->
<div class="modal fade" id="joinModal" tabindex="-1" aria-labelledby="joinModalTitle" aria-hidden="true">
  <div class="modal-dialog modal-dialog-centered modal-lg modal-dialog-scrollable">
    <div class="modal-content">
      <div class="modal-header">
        <h4 class="modal-title" id="joinModalTitle">Sign up for FoodFusion</h4>
        <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>
      </div>
      <div class="modal-body">
        <p><small>If you're successful:</small> <small>If you're not:</small></p>
        <div><small>If you're successful:</small> <small>If you're not:</small></div>
        <form method="post" action="#">
          <div><small>First Name</small></div>
          <div><small>Last Name</small></div>
          <div><small>Phone</small></div>
          <div><small>Gender</small></div>
          <div><small>Role</small></div>
          <div><small>Chef Name</small></div>
          <div><small>Country</small></div>
        </form>
      </div>
    </div>
  </div>
</div>

```

Figure 4.2

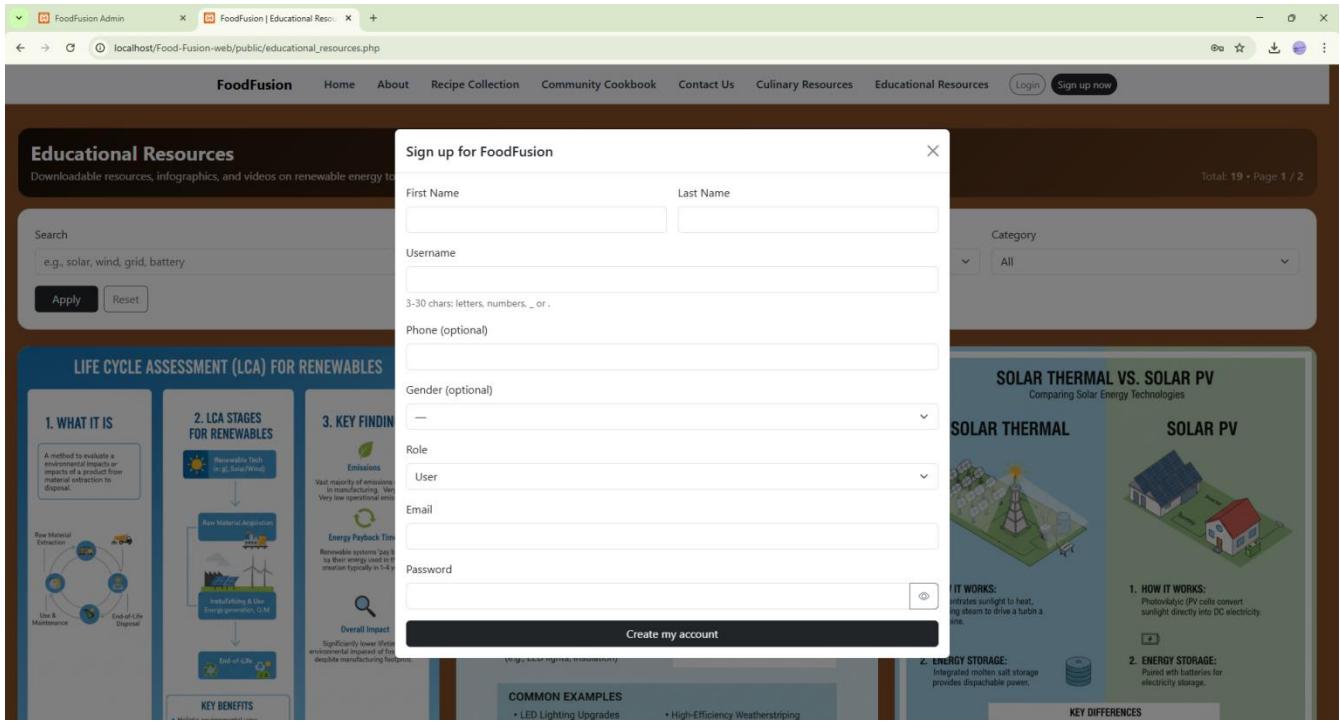


Figure 4.3

(b)links to privacy and cookie information

Privacy Policy.php

```
C:\xampp\htdocs\Food-Fusion-web\public\privacy.php (Food-Fusion-web) - Sublime Text (UNREGISTERED)
File Edit Selection Find View Go Tools Project Preferences Help
FOLDERS
  - Food-Fusion-web
    - admin
    - config
    - db_setup
    - Header/Footer
      - footer.php
      - header.php
    - photo
    - public
      - about.php
      - community_cookie
      - contact.php
      - cookies.php
      - create_admin.php
      - culinary_resources
      - educational_resources
      - login.php
      - privacy.php
      - recipe_collection.php
      - register.php
    - uploads
    - index.php
privacy.php
1 <?php
2     <?php
3         <?php
4             <?php
5                 <?php
6                     $pageTitle = "FoodFusion | Privacy Policy";
7                     require_once __DIR__ . '/config/config.php';
8
9                     $PROJECT_BASE = defined('PROJECT_BASE') ? PROJECT_BASE : '/Food-Fusion-web';
10
11                     require_once __DIR__ . '/header/footer/header.php';
12
13
14                     <?php
15                     <?php
16                         <?php
17                             <?php
18                                 <?php
19                                     <?php
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62                                                 <?php
63                                                 <?php
64                                                 <?php
65                                                 <?php
66                                                 <?php
67
68 <?php require_once __DIR__ . '/../header/footer/footer.php'; ?>
```

Figure 4.4

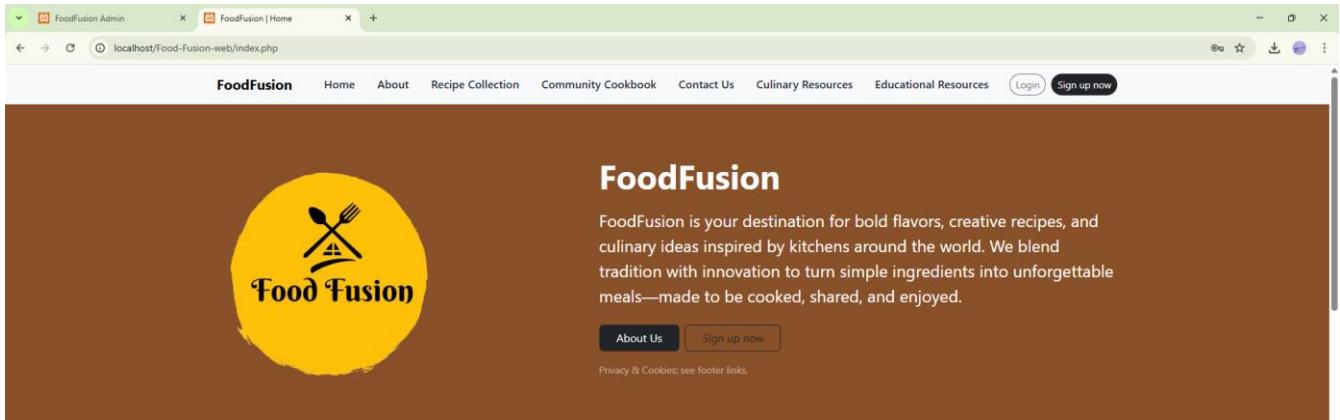


Figure 4.5

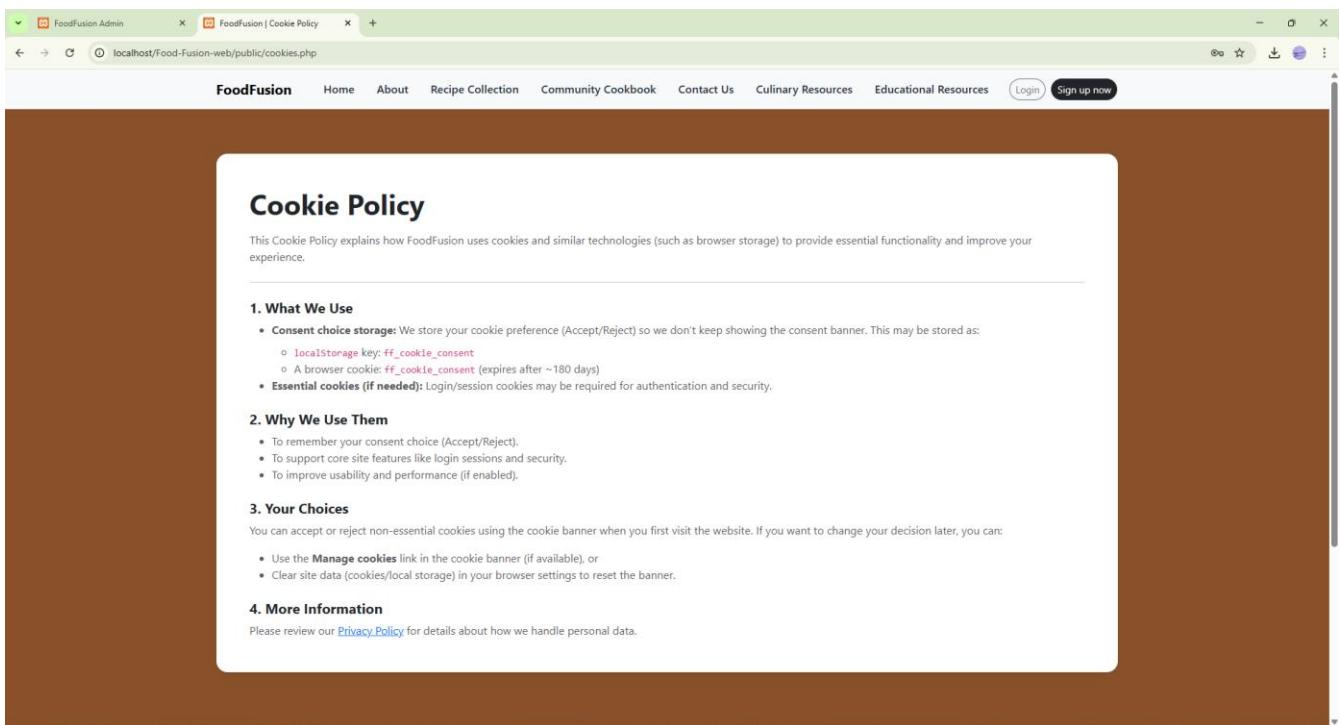


Figure 4.6

```

1 <?php
2     $options[strict_types] = true;
3     error_reporting(E_ALL);
4     ini_set('display_errors', '1');
5
6     $pageTitle = "FoodFusion | Cookie Policy";
7     require_once __DIR__ . '/config/conn.php';
8
9     $PROJECT_BASE = defined('PROJECT_BASE') ? PROJECT_BASE : '/Food-Fusion-web';
10
11    require_once __DIR__ . '/header&footer/header.php';
12
13    ></?>
14
15    <div class="container py-5">
16        <div class="white rounded p-4 p-lg-5 shadow-sm">
17            <h3 class="fw-bold mb-3">Cookie Policy</h3>
18            <p>This cookie policy explains how FoodFusion uses cookies and similar technologies (such as browser storage) to provide essential functionality and improve your experience.Privacy Policy</a> for details about how we handle personal data.</li>
46            </ul>
47        </div>
48    </div>
49
50    <?php require_once __DIR__ . '/header&footer/footer.php'; ?>

```

Figure 4.7

Privacy Policy

This Privacy Policy explains how FoodFusion collects, uses, and protects personal information when you use our website.

1. Information We Collect

- **Account data:** name, username, email, password (stored as a secure hash), role (user/chef/admin if applicable).
- **Optional profile data:** phone number, gender, chef name, country (if you register as a chef).
- **User content:** posts, comments, recipes, images you upload (Community Cookbook / Recipe features).
- **Technical/security data:** basic device/browser information, logs for protecting the service from abuse.

2. How We Use Your Information

- To create and manage user accounts.
- To authenticate users and provide secure login.
- To allow posting, commenting, reactions, and other community features.
- To improve performance, fix bugs, and enhance user experience.
- To respond to inquiries (e.g., Contact Us submissions).

3. Security

We apply practical security measures such as password hashing and basic rate limiting. For example, the system may lock an account after multiple failed login attempts (e.g., 3 failed attempts for a short period).

4. Cookies and Consent

FoodFusion uses cookies or browser storage to remember your cookie consent preference and support essential functionality (such as login sessions). You can review details in our [Cookie Policy](#).

[View Cookie Policy](#)

5. Data Retention

We keep your data as long as needed to provide the service and for legitimate purposes such as security and compliance. You may request assistance if you want to

Figure 4.8

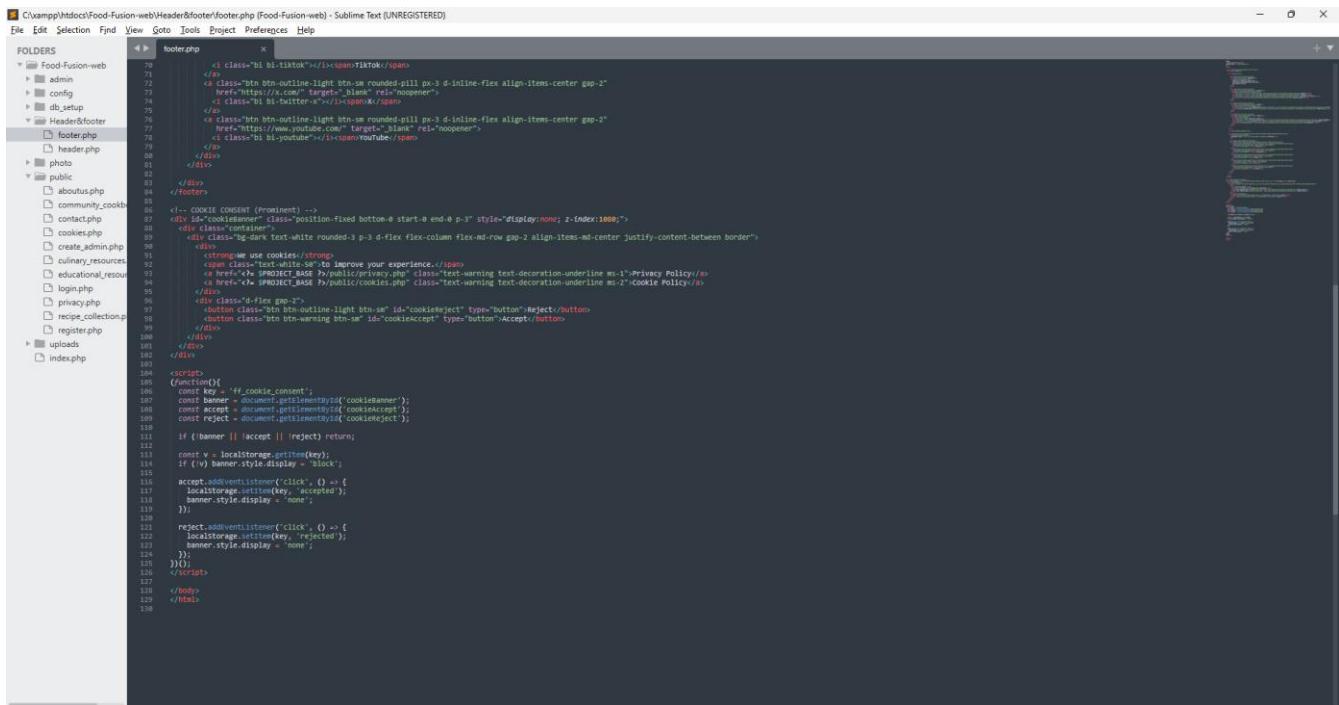
The screenshot shows a recipe card for "Asian Noodles Workshop" on the FoodFusion website. The card includes sections for "INGREDIENTS", "METHOD", and "TOPPINGS & SUGGESTIONS". The ingredients list includes Egg Noodles, Soy Sauce, Oyster Sauce, Sesame Oil, Garlic, Broccoli, Carrot, and Scallions. The method steps are numbered 1 through 7. The toppings section lists Toasted Sesame Seeds, Fresh Cilantro, Sriracha (optional), and Lime Wedges. A small bowl icon with chopsticks and the word "Enjoy!" are also present.

Figure 4.9

The screenshot shows the Privacy Policy page of the FoodFusion website. It contains sections for "3. Security", "4. Cookies and Consent", "5. Data Retention", and "6. Contact". The "3. Security" section states: "We apply practical security measures such as password hashing and basic rate limiting. For example, the system may lock an account after multiple failed login attempts (e.g., 3 failed attempts for a short period)." The "4. Cookies and Consent" section states: "FoodFusion uses cookies or browser storage to remember your cookie consent preference and support essential functionality (such as login sessions). You can review details in our Cookie Policy." The "5. Data Retention" section states: "We keep your data as long as needed to provide the service and for legitimate purposes such as security and compliance. You may request assistance if you want to remove your account data (subject to project rules)." The "6. Contact" section states: "If you have questions about privacy, contact us at foodfusion@email.com".

Figure 4.10

(c) cookie acceptance functionality



```

File Edit Selection Find View Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
  - admin
  - config
  - db_setup
  - Header/footer
    - footer.php
    - header.php
  - photo
  - public
    - aboutus.php
    - community_cookbook.php
    - contact.php
    - cookies.php
    - create_admin.php
    - culinary_resources.php
    - educational_resources.php
    - login.php
    - privacy.php
    - recipe_collection.php
    - register.php
  - uploads
index.php

<div>
  <a href="https://www.facebook.com" target="blank" rel="noopener">
    <span>Facebook</span>
  </a>
  <a href="https://www.twitter.com" target="blank" rel="noopener">
    <span>Twitter</span>
  </a>
  <a href="https://www.youtube.com" target="blank" rel="noopener">
    <span>YouTube</span>
  </a>
</div>
<div>
  <div>
    <p>We use cookies</p>
    <p>to improve your experience.</p>
    <a href="#PROJECT_BASE/public/privacy.php" class="text-warning text-decoration-underline ms-1">Privacy Policy</a>
    <a href="#PROJECT_BASE/public/cookies.php" class="text-warning text-decoration-underline ms-2">Cookie Policy</a>
  </div>
  <div class="d-flex gap-2">
    <button class="btn btn-outline-light btn-sm" id="cookieReject" type="button">Reject</button>
    <button class="btn btn-warning btn-sm" id="cookieAccept" type="button">Accept</button>
  </div>
</div>
</div>
</div>

<script>
  function() {
    if (!localStorage.getItem('cookie_consent')) {
      const banner = document.getElementById('cookieBanner');
      const accept = document.getElementById('cookieAccept');
      const reject = document.getElementById('cookieReject');

      if (!banner || !accept || !reject) return;
      const key = localStorage.getItem('key');
      if (!key) banner.style.display = 'block';

      accept.addEventListener('click', () => {
        localStorage.setItem(key, 'accepted');
        banner.style.display = 'none';
      });
      reject.addEventListener('click', () => {
        localStorage.setItem(key, 'rejected');
        banner.style.display = 'none';
      });
    }
  }
</script>
</body>
</html>

```

Figure 4.11

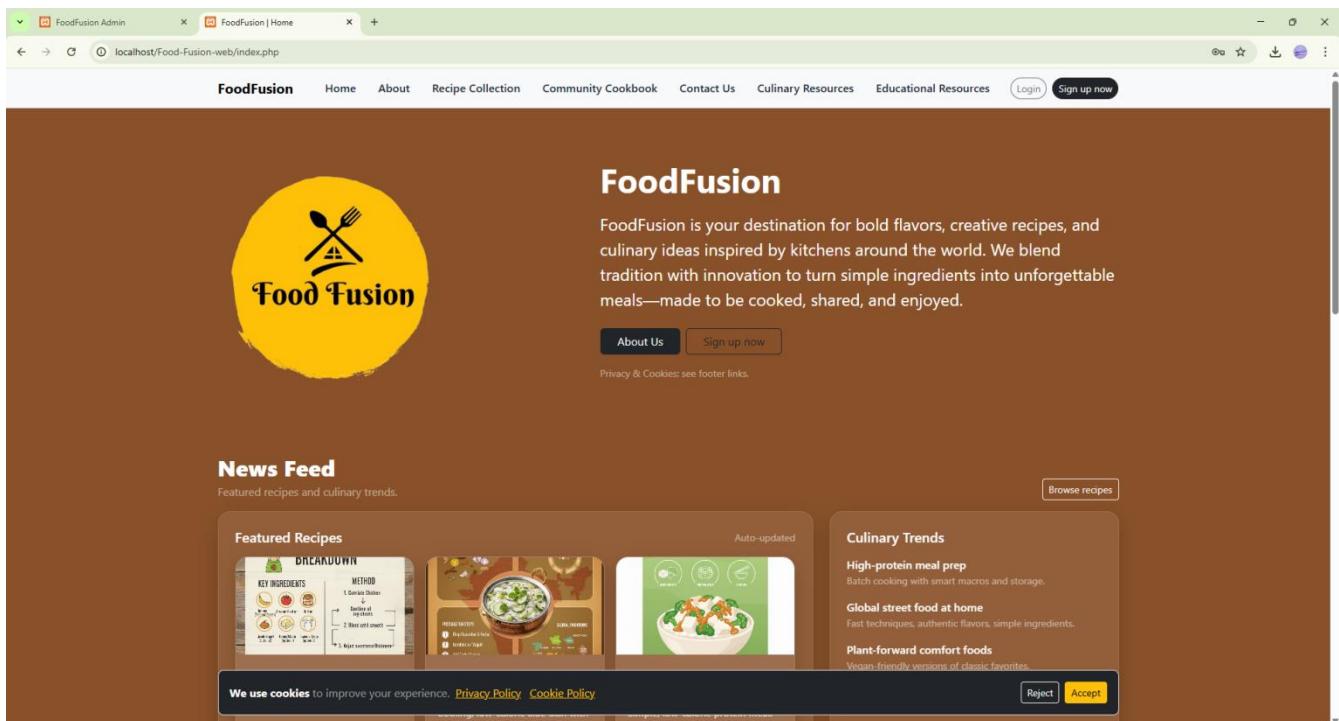


Figure 4.12



Figure 4.13

(d) integration with social media platforms

The screenshot shows a Sublime Text editor window with the file "C:\xampp\htdocs\Food-Fusion-web\Header\footer\footer.php" open. The code is as follows:

```

File Edit Selection Find Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
└── Header\footer
    └── footer.php
        └── footer.php
File Edit Selection Find Goto Tools Project Preferences Help
FOLDERS
Food-Fusion-web
└── Header\footer
    └── footer.php
        └── footer.php
        <div class="col-12 col-md-4 col-lg-4">
            <div class="fw-bold text-uppercase mb-3">Support</div>
            <ul class="list-unstyled text-secondary mb-4">
                <li><a href="#">Payment</a></li>
                <li><a href="#">Delivery</a></li>
                <li><a href="#">Returns</a></li>
                <li><a href="#">Customer support</a></li>
            </ul>
        </div>
        <div class="col-12 col-md-4 col-lg-4">
            <div class="fw-bold text-uppercase mb-3">Legal</div>
            <ul class="list-unstyled text-secondary mb-4">
                <li><a href="#">Privacy Policy</a></li>
                <li><a href="#">Cookie Policy</a></li>
            </ul>
        </div>
        <div class="col-12 col-md-4 col-lg-4">
            <div class="fw-bold text-uppercase mb-3">Contact</div>
            <div class="text-secondary">Times Hall, Vungon</div>
            <div class="mb-2"><a href="mailto:foodfusion@email.com">FoodFusion@email.com</a></div>
            <div class="mb-2"><a href="tel:95987730238">+95 987730238</a></div>
            <div class="mb-2"><a href="tel:99974007221">+95 99974007221</a></div>
        </div>
        <div class="border-secondary my-4">
            <p>Copyright © 2026 - <span>FoodFusion</span></p>
        </div>
        <div class="d-flex flex-column flex-md-row justify-content-between align-items-center gap-3">
            <span>Social Media Platforms Integration ...</span>
            <div class="d-flex flex-wrap gap-2">
                <a class="btn btn-outline-light btn-sm rounded-pill px-3 d-inline-flex align-items-center gap-2" href="https://www.facebook.com/" target="_blank" rel="noopener">
                    <span>Facebook</span>
                </a>
                <a class="btn btn-outline-light btn-sm rounded-pill px-3 d-inline-flex align-items-center gap-2" href="https://www.instagram.com/" target="_blank" rel="noopener">
                    <span>Instagram</span>
                </a>
                <a class="btn btn-outline-light btn-sm rounded-pill px-3 d-inline-flex align-items-center gap-2" href="https://www.tiktok.com/" target="_blank" rel="noopener">
                    <span>TikTok</span>
                </a>
                <a class="btn btn-outline-light btn-sm rounded-pill px-3 d-inline-flex align-items-center gap-2" href="https://www.youtube.com/" target="_blank" rel="noopener">
                    <span>YouTube</span>
                </a>
            </div>
        </div>
    </div>

```

Figure 4.14

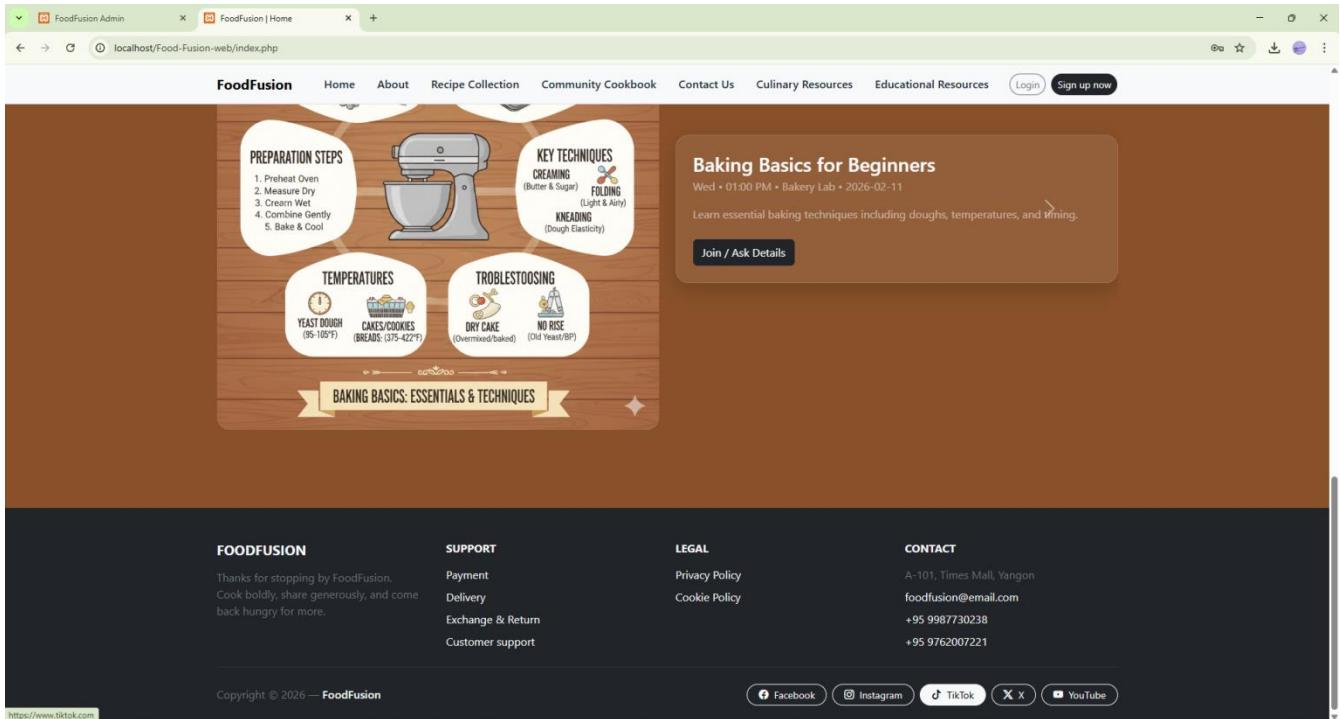


Figure 4.15

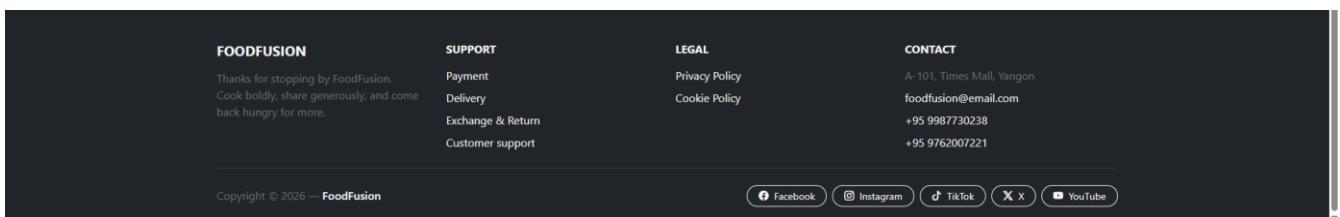


Figure 4.16

A. Screenshots and Diagrams

- i. all implemented web pages
- home page

The screenshot shows the FoodFusion website homepage. At the top, there is a navigation bar with links for Home, About, Recipe Collection, Community Cookbook, Contact Us, Culinary Resources, Educational Resources, Log in, and Sign up now. Below the navigation bar is the FoodFusion logo, which consists of a yellow circle containing a stylized fork and knife icon above the word "FoodFusion".

FoodFusion

FoodFusion is your destination for bold flavors, creative recipes, and culinary ideas inspired by kitchens around the world. We blend tradition with innovation to turn simple ingredients into unforgettable meals—made to be cooked, shared, and enjoyed.

[About Us](#) [Sign up now](#)

Privacy & Cookies: see footer links.

News Feed

Featured recipes and culinary trends.

Featured Recipes (Auto-updated)

- Banana Peanut Butter Smoothie (Light)**: International • Vegetarian • Easy. Balanced diet smoothie, keep peanut butter portion controlled...
- Cucumber Yogurt Salad**: International • Vegetarian • Easy. Cooling, low-calorie side dish with probiotics. Combine chopped...
- Steamed Tofu & Broccoli**: Asian • Vegan • Easy. Simple, low-calorie protein meal. Steam tofu and broccoli to...
- Lentil Soup (Light)**: International • Vegan • Easy. Low-fat, high-fiber soup. Simmer lentils slowly with aromatics for a...
- Quinoa Veggie Bowl**: International • Vegan • Easy. High-fiber vegan bowl with complete protein from quinoa. M...
- Baked Salmon with Veggies**: International • Non-Vegetarian • Medium. Omega-3 rich, diet-friendly main course. Bake salmon with...

Culinary Trends

- High-protein meal prep
- Batch cooking with smart macros and storage
- Global street food at home
- Fast techniques, authentic flavors, simple ingredients
- Plant-forward comfort foods
- Vegan-friendly versions of classic favorites

[Learn more](#) [Browse recipes](#)

Upcoming Cooking Events

Workshops and community cooking sessions.

ASIAN NOODLES
Quick & Savory Stir-Fry

INGREDIENTS	METHOD	TOPPINGS & SUGGESTIONS
1. 300g Egg Noodles 2. 2 tbs Soy Sauce 3. 2 tbs Oyster Sauce 5. 1 tbs Sesame Oil 6. 1 cloves Garlic (minced) 7. 1 inch Ginger (grated) 8. 1 cup Broccoli (sliced) 9. Carrot (sliced) 10. Scallions (chopped)	1. Boil noodles (5 min) 2. Heat oil in wok 3. Heat oil in wok 4. Stir-fry garlic & ginger cook (1 min) 5. Add vegetables & sauces 6. Toss until combined 7. Serve hot. 7. Serve hot.	1. Toasted Sesame Seeds 2. Fresh Cilantro (chopped) 3. Sriracha (optional) 4. Lime Wedges

Enjoy!

Asian Noodles Workshop
Thu • 04:30 PM • FoodFusion Kitchen Studio • 2026-02-05

Explore handmade and fresh noodles with broths, stir-fries, and sauces. >

[Join / Ask Details](#)

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+95 989730238
+95 9762007221

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Figure 5.1

About us page

FoodFusion Home About Recipe Collection Community Cookbook Contact Us Culinary Resources Educational Resources Login Sign up now

About FoodFusion

FoodFusion is a home-cooking community built to make cooking feel simple, creative, and enjoyable. We share recipes, practical kitchen tips, and cooking events that bring people together.

[Explore Recipes](#) [Community Cookbook](#)



Our Mission

To encourage home cooking by providing inspiring recipes, easy techniques, and a friendly space where anyone can learn and share.

Our Vision

A vibrant community where food connects cultures—where every member can explore global flavours and confidently cook at home.

Our Values

What FoodFusion stands for

Creativity	Accessibility	Community	Respect for Culture
We encourage experimentation, substitutions, and personal twists.	Simple instructions, clear categories, and options for different diets.	Members share recipes, tips, and stories through the Community Cookbook.	We celebrate global cuisines and give credit to authentic traditions.

Meet Our Chefs

 Chef Giovanni Rossi Italy Passionate chef sharing authentic recipes and culinary traditions. View Recipes	 Chef Somchai Prasert Thailand Passionate chef sharing authentic recipes and culinary traditions. View Recipes	 Chef Arjun Sharma India Passionate chef sharing authentic recipes and culinary traditions. View Recipes
 Chef Maria Hernandez Mexico Passionate chef sharing authentic recipes and culinary traditions. View Recipes	 Chef Kenji Tanaka Japan Passionate chef sharing authentic recipes and culinary traditions. View Recipes	

Meet the Team

FoodFusion is maintained by a small team of food lovers and developers who care about learning, sharing, and building a safe community.

 Founder / Editor Curates recipes, checks quality, and keeps the community active.	 Community Manager Supports members, moderates submissions, and responds to feedback.	 Web Developer Builds features like login security, recipe pages, and database integration.
--	---	--

Want to become a chef?

Join FoodFusion and share your recipes with the world.

[Sign Up Now](#)

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Figure 5.2

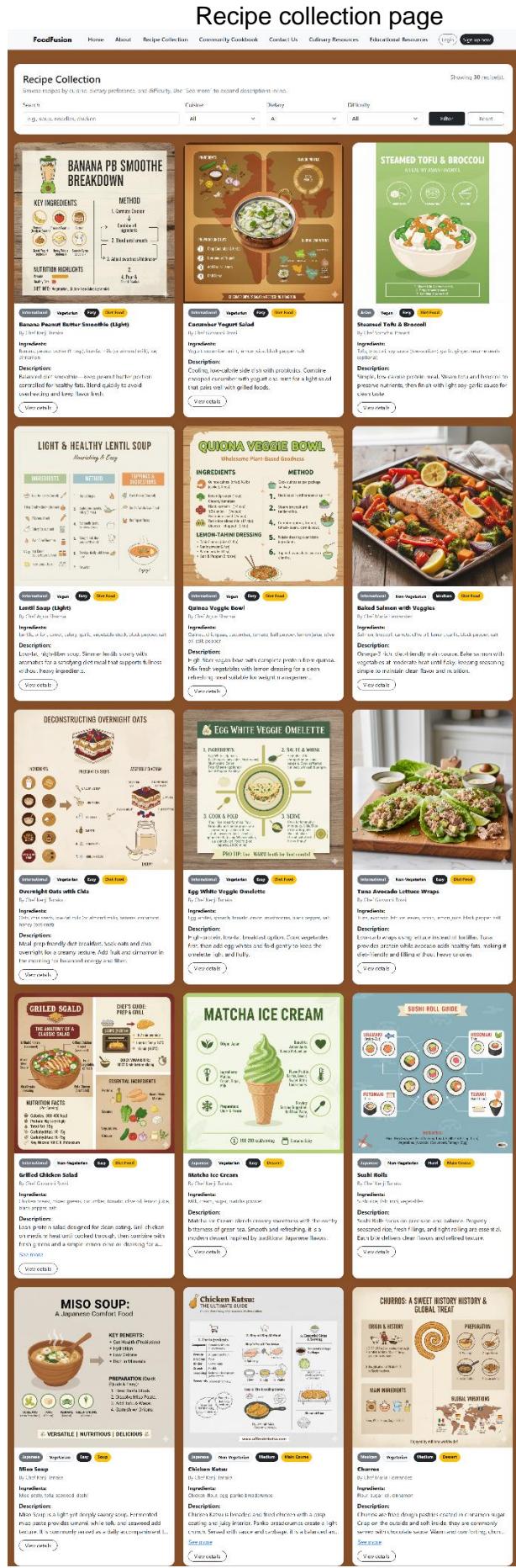


Figure 5.3



figure 5.4

Mushroom Risotto
By Chef Giovanni Rossi
Ingredients:
Arborio rice, mushrooms, vegetable stock, butter, parmesan, onion
Description:
Mushroom Risotto is a technique-driven Italian dish known for its creamy texture. Arborio rice is slowly cooked by gradually adding warm stock, releasing natural starches th...
[See more](#)
[View details](#)

Margherita Pizza
By Chef Giovanni Rossi
Ingredients:
Pizza dough, tomato sauce, mozzarella, fresh basil, olive oil
Description:
Margherita Pizza represents the essence of Italian simplicity. With only a few high-quality ingredients, the dish relies on balance rather than complexity. A well-fermented dough...
[See more](#)
[View details](#)

Beef Lasagna
By Chef Giovanni Rossi
Ingredients:
Lasagna sheets, minced beef, tomato sauce, onion, garlic, olive oil, mozzarella, parmesan, herbs
Description:
Beef Lasagna is a classic Italian comfort dish built on layers of rich flavors. Slowly cooked minced beef is combined with aromatic onions, garlic, and tomato sauce to create a dee...
[See more](#)
[View details](#)

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Figure 5.5

Community cookbook page

FoodFusion Home About Recipe Collection Community Cookbook Contact Us Culinary Resources Educational Resources Login Sign up now

Community Cookbook

Share recipes, cooking tips, and culinary experiences with the FoodFusion community.

Please [Login](#) or [Register](#) to post, react, and comment.

Thu Thu 2026-01-11 04:47:29 **Approved**

Mohinga
This is good Recipe



0 0

Login to react

Comments
No comments yet.
Login to comment

Ye Myat Kyaw 2026-01-11 01:00:24 **Approved**

Traditional Myanmar Mohinga
Myanmar Hard Prep 30m Cook 45m

This is the beloved national dish of Myanmar. It is a hearty, aromatic fish broth thickened with chickpea flour and served over fine rice noodles. Perfect for breakfast or a comforting anytime meal!



▶ Recipe Details
0 1

Login to react

Comments
Aung Kaung Myat 2026-01-11 01:02:00
good Recipe

Login to comment

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Figure 5.6

Community Cookbook

Share recipes, cooking tips, and culinary experiences with the FoodFusion community.

+ Post

T Thu Thu
2026-01-11 04:47:29

Mohinga

This is good Recipe



0 Like 0 Heart 0 Comment

Comments
No comments yet.
Write a comment... Send

Y Ye Myat Kyaw
2026-01-11 01:00:24

Traditional Myanmar Mohinga

Myanmar Hard Prep 30m Cook 45m

This is the beloved national dish of Myanmar. It is a hearty, aromatic fish broth thickened with chickpea flour and served over fine rice noodles. Perfect for breakfast or a comforting anytime meal!



▶ Recipe Details
0 Like 1 Heart 0 Comment

Comments
Aung Kaung Myat 2026-01-11 01:02:00
good Recipe
Write a comment... Send

FOODFUSION

Thanks for stopping by FoodFusion.
Cook boldly, share generously, and come back hungry for more.

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Figure 5.7

User post

The screenshot shows a user interface for creating a post on the FoodFusion platform. At the top, there is a navigation bar with links for Home, About, Recipe Collection, Community Cookbook, Contact Us, Culinary Resources, Educational Resources, and a user account section for 'Thu Thu (user)' with a 'Logout' button. Below the navigation, a banner for the 'Community Cookbook' section encourages users to share recipes, cooking tips, and culinary experiences. A modal window titled 'Create a Post' is open in the center. The modal has fields for 'Title *' (with placeholder 'Post title...'), 'Content *' (with placeholder 'Write your recipe, tips, or story...'), and 'Cover Image (optional)' which includes a 'Choose File' button and a note that no file has been chosen. It also specifies a max upload of 20MB and a note that user posts will be pending until admin approves. At the bottom of the modal are 'Post' and 'Cancel' buttons. In the background, a post by 'Thu Thu' is visible, featuring a photo of a bowl of 'Mohinga' (a traditional Burmese fish noodle soup), the title 'Mohinga', the text 'This is good Recipe', and social interaction metrics (0 likes, 0 hearts). There are also 'Like', 'Heart', and 'Comment' buttons. Below the post, there is a comment from 'Aung Kaung Myat' with the text 'good Recipe'. At the bottom of the page, there are sections for 'FOODFUSION' (with a welcome message), 'SUPPORT' (listing Payment, Delivery, Exchange & Return, and Customer support), 'LEGAL' (listing Privacy Policy and Cookie Policy), and 'CONTACT' (listing address, email, and phone numbers). Social media links for Facebook, Instagram, TikTok, X, and YouTube are also present.

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Figure 5.8

Community Cookbook

Share recipes, cooking tips, and culinary experiences with the FoodFusion community.

+ Post

T Thu Thu 2026-01-11 04:47:29 **Approved**

Mohinga
This is good Recipe



0 Like 0 Heart Comment

Comments
No comments yet.

Write a comment... Send

Y Ye Myat Kyaw 2026-01-11 01:00:24 **Approved**

Traditional Myanmar Mohinga
Myanmar Hard Prep 30m Cook 45m

This is the beloved national dish of Myanmar. It is a hearty, aromatic fish broth thickened with chickpea flour and served over fine rice noodles. Perfect for breakfast or a comforting anytime meal!



▶ Recipe Details 0 Like 1 Heart Comment

Comments
Aung Kaung Myat 2026-01-11 01:02:00
good Recipe

Write a comment... Send

FOODFUSION

Thanks for stopping by FoodFusion.
Cook boldly, share generously, and come back hungry for more.

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Figure 5.9

Chef post

The screenshot shows the FoodFusion app's "Community Cookbook" section. A modal window titled "Create a Post" is open, prompting the user to enter details for a "Chef Recipe". The form includes fields for "Title" (Post title...), "Content" (Write your recipe, tips, or story...), "Cuisine" (e.g., Myanmar / Italian), "Difficulty" (Select), "Prep Time (min)" (e.g., 15), "Cook Time (min)" (e.g., 25), and "Ingredients" (List ingredients...). On the left, a preview of a post by "Thu Thu" titled "Mohinga" is visible, showing a photo of the dish and some basic stats. At the bottom right of the modal, there is a "Comments" section with a comment from "Aung Kaung Myat" dated 2026-01-11 01:02:00.

Figure 5.10

This screenshot shows the same "Create a Post" modal as Figure 5.10, but with additional fields. It now includes "Instructions" (Write step-by-step...) and "Cover Image (optional)" (Choose File, No file chosen, Max upload: 20MB). The "Post" and "Cancel" buttons are at the bottom of the modal. The background shows the same "Mohinga" post by "Thu Thu" and the comment from "Aung Kaung Myat".

Figure 5.11

Contact us page

not login

The screenshot shows the FoodFusion website's contact page. At the top, there is a navigation bar with links for Home, About, Recipe Collection, Community Cookbook, Contact Us, Culinary Resources, Educational Resources, Login, and Sign up now. Below the navigation bar, there is a large orange header section with the title "Contact FoodFusion". It includes a placeholder message: "Have a question, recipe request, or feedback? Send us a message and we'll get back to you." Below this, there are two input fields: "Email support@foodfusion.com" and "Location Yangon, Myanmar". To the right of the text area is a photograph of a hand holding a small telephone icon above a row of white blocks spelling "CONTACT US" on a wooden surface. In the main content area, there are two columns. The left column contains a "Send a message" form with fields for Full Name*, Email*, Message Type, Subject*, and Message*. The right column lists "What we can help with" (Recipe suggestions and requests, Community Cookbook support, Account issues (login/registration), Feedback and collaboration) and "Response time" (We normally reply within 24–48 hours (business days)). At the bottom of the page, there is a map titled "Find us in Yangon" showing the location of Yangon, with various neighborhoods labeled. The footer contains sections for FOODFUSION (Thanks for stopping by FoodFusion. Cook boldly, share generously, and come back hungry for more.), SUPPORT (Payment, Delivery, Exchange & Return, Customer support), LEGAL (Privacy Policy, Cookie Policy), and CONTACT (Address: A-101, Times Mall, Yangon, Email: foodfusion@email.com, Phone: +95 9987730238, +95 9762007221). Social media links for Facebook, Instagram, TikTok, X, and YouTube are also present.

Figure 5.12

When login

The screenshot shows the FoodFusion contact page. At the top, there is a navigation bar with links for Home, About, Recipe Collection, Community Cookbook, Contact Us, Culinary Resources, Educational Resources, and a user profile for Aung Kaung Myat (user). There is also a Logout button.

The main content area features a large image of a hand holding a phone and an envelope icon above a "CONTACT US" sign made of dice. Below this, there is a "Contact FoodFusion" section with a message input field and a "Send Message" button. To the right of this is a "What we can help with" list and a "Response time" section. Further down is a "Find us in Yangon" map and a footer with links for FoodFusion, SUPPORT, LEGAL, and CONTACT.

Contact FoodFusion

Have a question, recipe request, or feedback? Send us a message and we'll get back to you.

Email support@foodfusion.com Location Yangon, Myanmar

Send a message

Fill in the form and we'll respond as soon as possible. Logged in

Full Name * Aung Kaung Myat **Email *** aung2@gmail.com

Message Type Enquiry **Subject *** Write a subject

Message *

Write your message...

Send Message We normally reply within 24–48 hours (business days).

What we can help with

- Recipe suggestions and requests
- Community Cookbook support
- Account issues (login/registration)
- Feedback and collaboration

Response time

We normally reply within 24–48 hours (business days).

Find us in Yangon

Map of Yangon showing various neighborhoods like Yangon, Hkayangyi, Gyaungwaing, Thanyin, and Phar Kuu. A tip at the bottom says: "Tip: You can zoom and drag the map."

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Figure 5.13

Culinary resources page

FoodFusion Home About Recipe Collection Community Cookbook Contact Us Culinary Resources Educational Resources Log in as Kaung Myat (user) Logout

Culinary Resources

Downloadable cards, tutorials, and videos. Filter by type, topic, and category.

Total: 20 • Page 1 / 2

Search: e.g., knife, sauce, safety Type: All Topic: All Category: All

Apply Reset

Knife Skills: Core Cuts & Safety
Tutorial Cooking Basics Knife Skills
Added: 2026-01-09 18:04:27
Master the chef's grip, claw hand, and the most common cuts (slice, dice, julienne). Includes safety rules, board setup, and sharpening basics. This resource is designed to reduce accidents while...
[See more](#)
[Download](#) [Watch Video](#)

Plating Basics: Simple Restaurant Look
Tutorial Techniques Plating
Added: 2026-01-09 17:35:20
Learn composition, height, negative space, sauce placement, and garnish discipline. Includes a checklist for making dishes look clean and premium without special tools.
[Download](#) [Watch Video](#)

Food Safety: Storage & Reheating Rules
PDF Kitchen Rules Food Safety
Added: 2026-01-09 17:35:20
Essential food safety guide: safe temperature zones, storage durations, thawing rules, and reheating practices. Built for meal prepers and home cooks who want to reduce risk and waste.
[Download](#) [Watch Video](#)

Baking 101: Measuring & Oven Accuracy
PDF Cooking Basics Baking
Added: 2026-01-09 17:35:20
Baking depends on precision. Learn measuring methods, why kitchen scales matter, and how to check oven temperature. Includes troubleshooting for dense cakes, dry cookies, and uneven browning.
[Download](#) [Watch Video](#)

Salad Upgrades: Crunch, Balance, Dressings
Infographic Cooking Basics Salads
Added: 2026-01-09 17:35:20
A formula-based guide for building satisfying salads: greens + crunch + protein + acid + fat. Includes quick dressing ratios and tips to keep salads crisp (no soggy greens).
[Download](#) [Watch Video](#)

Italian Basics: Pasta Water & Emulsions
Tutorial Cuisine Basics Italian
Added: 2026-01-09 17:35:20
Understand why pasta water matters, how to emulsify sauces, and how to finish pasta in the pan for restaurant-level texture. Includes timing guidance, salt ratio, and common mistakes to avoid.
[Download](#) [Watch Video](#)

Meal Prep Blueprint: 1 Hour, 5 Meals
Recipe Card Planning Meal Prep
Added: 2026-01-09 17:35:20
A structured meal prep template: choose 1 protein, 2 veggies, 1 carb, and 2 sauces. Includes storage guidance, reheating tips, and food safety notes to keep meals fresh and consistent all week.
[Download](#) [Watch Video](#)

Stir-Fry Method: Heat Control & Timing
Tutorial Techniques Stir-fry
Added: 2026-01-09 17:35:20
Learn wok heat management, batch cooking, and sauce timing so ingredients stay crisp instead of soggy. Includes a timing chart for vegetables, proteins, and aromatics, plus how to prevent steaming...
[Download](#) [Watch Video](#)

Sauces Cheat Sheets: 5 Mother Sauces
PDF Techniques Sauces
Added: 2026-01-09 17:35:20
A printable reference for béchamel, velouté, espagnole, hollandaise, and tomato sauce. Includes ratios, thickening methods, and common variations you can use to create dozens of dishes quickly.
[Download](#) [Watch Video](#)

Seasoning Fundamentals: Salt, Acid, Fat
Infographic Cooking Basics Seasoning
Added: 2026-01-09 17:35:20
A practical seasoning map that helps you balance flavour. Learn when to add salt, how acids brighten dishes, and how fats carry aroma. Includes quick fixes when food tastes flat, bitter, or too salty.
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Figure 5.14

Educational resources page 1

FoodFusion Home About Recipe Collection Community Cookbook Contact Us Culinary Resources Educational Resources [Log In](#) [Sign Up](#)

Educational Resources
Downloadable resources, infographics, and videos on renewable energy topics.

Total: 18 • Page 1 / 2

Search: Type: Topic: Category:

(e.g. solar, wind, grid, battery)

Apply Reset

LIFE CYCLE ASSESSMENT (LCA) FOR RENEWABLES

1. WHAT IT IS
2. LEARN MORE FOR RENEWABLES
3. KEY FINDINGS

ENERGY EFFICIENCY BASICS

1. WHAT IT IS
2. KEY BENEFITS

SOLAR THERMAL VS. SOLAR PV

1. HOW IT WORKS
2. KEY BENEFITS

POLICY FIT: RENEWABLE ENERGY AUCTIONS

1. HOW IT WORKS
2. KEY BENEFITS

GREEN HYDROGEN EXPLAINED

1. HOW IT'S MADE
2. KEY USERS

MIGRATORI Case Study & Worksheet

PUMPED HYDRO STORAGE

1. HOW IT WORKS
2. KEY BENEFITS

OFFSHORE WIND POWER

1. HOW IT WORKS
2. KEY ADVANTAGES

SOLAR PV SYSTEM DESIGN

1. SITE ASSESSMENT
2. COMPONENT SELECTION

CLIMATE METRICS BASICS

1. LEARN MORE
2. KEY TERMS
3. GREEN IMPACT

Climate Impacts Avoided CO2 and Renewable Metrics (Video Notes)

Infographic: Climate metrics used by renewable energy reporting agencies (IEA, avoided CO2, and why the same GHG can have different emissions impact depending on the grid mix...)

See more

Download Watch Video

Hydrogen Basics: Green Hydrogen from Renewables

Infographic: Green hydrogen is produced by electrolyzing water using renewable electricity. It's cleaner than fossil fuels and can be used in existing infrastructure like pipelines for vehicles, heating, industrial processes, and more.

See more

Download Watch Video

Offshore Wind: Why It's Different (Infographic)

Infographic: Offshore wind turbines are built to withstand harsh ocean conditions, including storms, large waves, tides, and currents. This infographic highlights the key differences between offshore and onshore wind energy sources, their unique challenges, and how they're being developed and integrated into the power grid.

See more

Download Watch Video

Solar System Design: Sizing, Inverters, and Shading Losses

Infographic: When designing a solar system, it's important to consider shading losses, which occur when parts of the panels are in the shade. This infographic provides tips for minimizing shading and maximizing energy output.

See more

Download Watch Video

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Figure 5.14

Educational resources page 2

Educational Resources
Downloadable resources, infographics, and videos on renewable energy topics.

Total: 19 • Page 2 / 2

Search	Type	Topic	Category
e.g. solar, wind, grid, battery	All	All	All
Apply	Reset		

ELECTRICAL SAFETY

Safety Basics: Electrical Risks in Renewable Systems (PDF)
Added: 2026-01-09 19:59:12
Covers essential electrical safety concepts for renewable installations: isolation, PPE, lockout-tagout, arc flash awareness, safe cable management, and basic hazard recognitions. Includes a one-page checklist for quick reference.

[See more](#)

[Download](#) [Watch Video](#)

LCOE EXPLAINED
Levelized Cost of Energy

Renewable Energy Economics: LCOE Explained (Tutorial)
Added: 2026-01-09 19:59:12
A step-by-step explanation of Levelized Cost of Energy (LCOE): what it measures, how it is calculated conceptually, and which inputs change results (capacity, capacity factor, discount rate). Includes a one-page summary sheet.

[See more](#)

[Download](#) [Watch Video](#)

BIO MASS & BIOENERGY

Biomass & Bioenergy: Benefits, Limits, and Emissions
Added: 2026-01-09 19:59:12
Explains biomass feedstocks (agricultural residues, forestry waste, energy crops), conversion methods, and key sustainability questions. Covers carbon accounting basics, air pollutant concerns, and environmental impacts.

[See more](#)

[Download](#) [Watch Video](#)

GEO THERMAL POWER OVERVIEW

Geothermal Energy Overview (Infographic)
Added: 2026-01-09 19:59:12
Summarizes how geothermal power works, including hydrothermal systems, production/injection wells, steam separation, and re-injection. Highlights where geothermal is most viable.

[See more](#)

[Download](#) [Watch Video](#)

GRID FUNDAMENTALS

Grid Fundamentals: AC Power, Frequency, and Worksheet
Added: 2026-01-09 19:59:12
A guided worksheet that explores AC fundamentals, frequency stability, demand matching, and the concept of grid inertia. Includes short questions, fill-in diagrams, and mini scenarios to practice.

[See more](#)

[Download](#) [Watch Video](#)

BATTERY ENERGY STORAGE

Battery Storage: Why Grids Need It
Added: 2026-01-09 19:59:12
Introduces battery energy storage systems (BESS) and their role in renewable integration. Covers peak shaving, frequency regulation, smoothing solar/wind variability, and supporting grid resilience.

[See more](#)

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HYDROPOWER: DAM VS. RUN-OF-RIVER

Hydropower: Run-of-River vs Reservoir (Video Notes + PDF)
Added: 2026-01-09 19:59:12
Explains two major hydropower approaches—run-of-river and reservoir-based generation. Summarizes advantages, limitations, and environmental trade-offs (ecosystems, sediment, seasonal flow).

[See more](#)

[Download](#) [Watch Video](#)

WIND TURBINE ANATOMY

Wind Turbine Anatomy (Infographic)
Added: 2026-01-09 19:59:12
A one-page crash guide to modern wind turbines, rotor blades, hub nacelle, gearboxes/rectifiers/generators, yaw system, tower, and control systems. Explains cut-in speed, rated speed, cut-out...

[See more](#)

[Download](#) [Watch Video](#)

SOLAR PV BASICS

Solar PV Basics: How Panels Generate Electricity
Added: 2026-01-09 19:59:12
A short introduction to the photovoltaic effect and how solar panels convert sunlight into usable electricity. Covers key components (PV modules, inverter, mounting, wiring), common system types (grid...

[See more](#)

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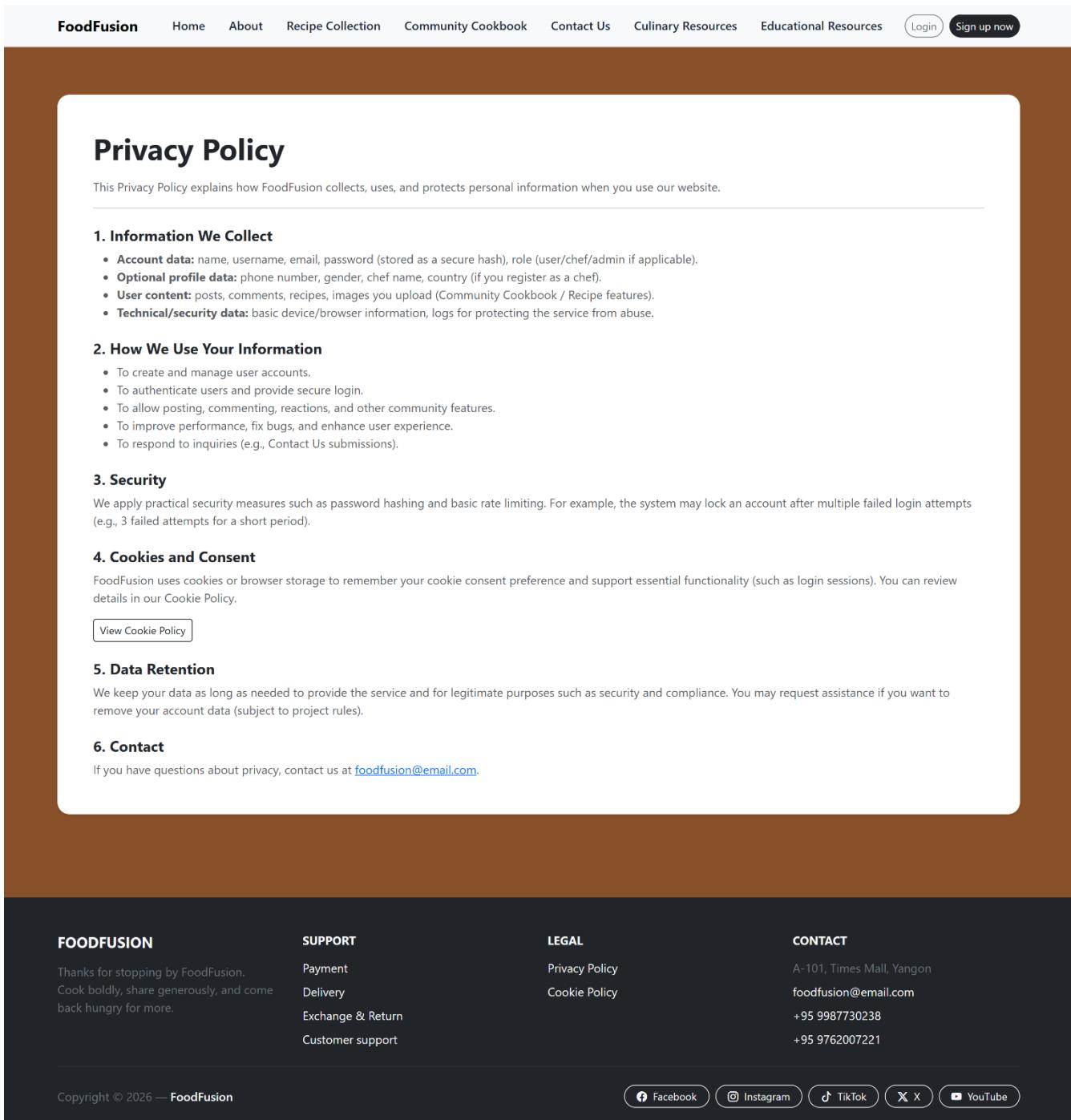
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Figure 5.15

Privacy page



The screenshot shows the FoodFusion Privacy Policy page. At the top, there's a navigation bar with links for Home, About, Recipe Collection, Community Cookbook, Contact Us, Culinary Resources, Educational Resources, Login, and Sign up now. Below the navigation is a large brown header section containing the title "Privacy Policy". A sub-section below it states: "This Privacy Policy explains how FoodFusion collects, uses, and protects personal information when you use our website." The main content is organized into six sections: 1. Information We Collect, 2. How We Use Your Information, 3. Security, 4. Cookies and Consent, 5. Data Retention, and 6. Contact. Each section contains a bulleted list of details or a brief paragraph. A "View Cookie Policy" button is located under the Cookies and Consent section. At the bottom of the page is a footer with links for FOODFUSION, SUPPORT, LEGAL, and CONTACT, along with social media icons for Facebook, Instagram, TikTok, X, and YouTube.

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Figure 5.16

Cookie's page

The screenshot shows the FoodFusion website's cookie policy page. At the top, there is a navigation bar with links for Home, About, Recipe Collection, Community Cookbook, Contact Us, Culinary Resources, Educational Resources, Login, and Sign up now. Below the navigation bar is a large brown header section containing the title "Cookie Policy". The main content area is white and contains four sections: "1. What We Use", "2. Why We Use Them", "3. Your Choices", and "4. More Information". Each section has a list of bullet points. At the bottom of the page is a footer with sections for FOODFUSION, SUPPORT, LEGAL, and CONTACT, along with social media links for Facebook, Instagram, TikTok, X, and YouTube.

FoodFusion Home About Recipe Collection Community Cookbook Contact Us Culinary Resources Educational Resources Login Sign up now

Cookie Policy

This Cookie Policy explains how FoodFusion uses cookies and similar technologies (such as browser storage) to provide essential functionality and improve your experience.

1. What We Use

- **Consent choice storage:** We store your cookie preference (Accept/Reject) so we don't keep showing the consent banner. This may be stored as:
 - `localStorage` key: `ff_cookie_consent`
 - A browser cookie: `ff_cookie_consent` (expires after ~180 days)
- **Essential cookies (if needed):** Login/session cookies may be required for authentication and security.

2. Why We Use Them

- To remember your consent choice (Accept/Reject).
- To support core site features like login sessions and security.
- To improve usability and performance (if enabled).

3. Your Choices

You can accept or reject non-essential cookies using the cookie banner when you first visit the website. If you want to change your decision later, you can:

- Use the **Manage cookies** link in the cookie banner (if available), or
- Clear site data (cookies/local storage) in your browser settings to reset the banner.

4. More Information

Please review our [Privacy Policy](#) for details about how we handle personal data.

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Figure 5.17

Admin

The screenshot shows the FoodFusion Admin Dashboard. On the left, a sidebar lists categories like Recipe Collection (30), Chefs (5), and Events (10). The main dashboard displays various metrics in cards:

Category	Count	Action
Recipes	30	Manage
Chefs	5	Manage
Events	10	Manage
Community Posts	2	Manage
Contact Messages	2	Manage
Culinary Resources	20	Manage
Educational Resources	19	Manage
Users	5	Manage

At the bottom, a footer note reads "FoodFusion Admin • 2026-01-20 10:08:04".

Figure 5.18

Admin user name -yemyat67

Admin password-yemyat67

ii. ERD (Entity-Relationship Diagram)

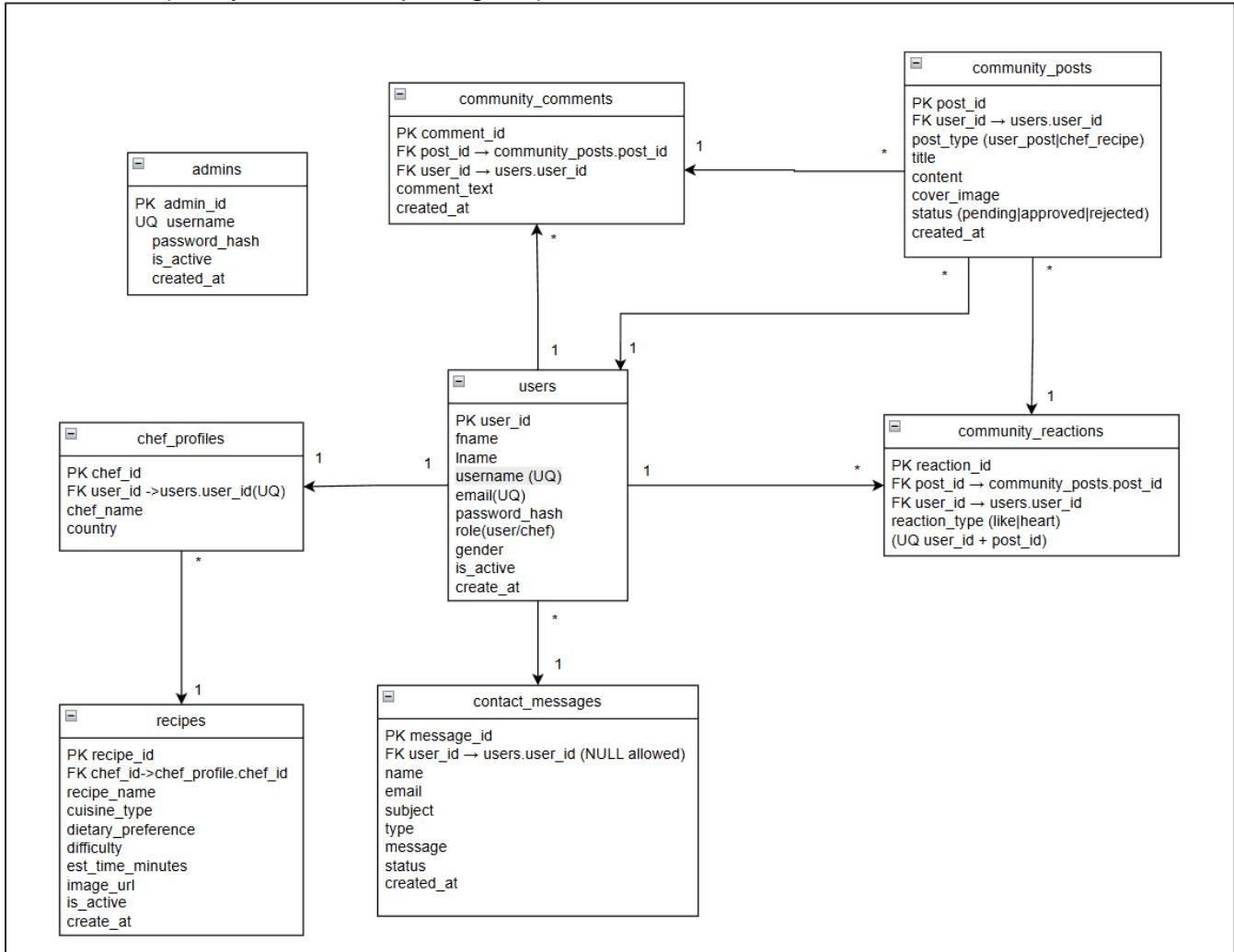


Figure 5.19

B. Security Controls

The part about security control informs that in the event the first user logs in and types the username or password wrong three times in a row, the account gets locked and the user can only log in after 3 minutes. Alternatively, the user can unlock it by reaching out to the admin. Users' passwords are maintained as hashed passwords and are inaccessible to the admin. Only the user will know. The Cookbook function does not ask users to upload recipes just as they are. Yet they can upload recipes only if the admin permits. Uploading of any content not related to cooking is prohibited.

User input username, email and password something wrong

A screenshot of a mobile application's login interface. The title bar says "Login" and has a close button "X". Below the title is a red error message box containing the text "Invalid credentials.". The next section is labeled "Email or Username" and contains the text "Aung67". The following section is labeled "Password" and contains a redacted password "....." with an "eye" icon to toggle visibility. At the bottom is a large black "Login" button. At the very bottom of the screen, there is a footer note: "Security: account locks after 3 failed attempts for 3 minutes."

Figure 5.20

3-time wrong lock login

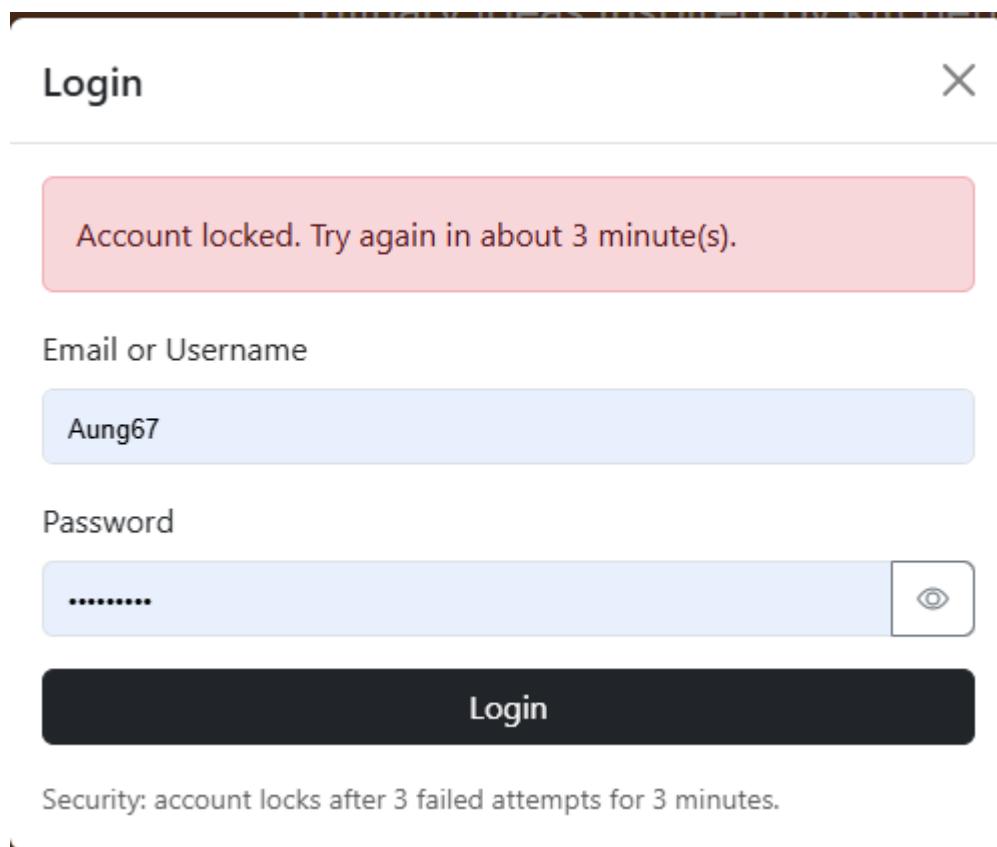


Figure 5.21

Hashed Password in Admin View

	<input type="button" value="←"/>	<input type="button" value="→"/>	<input type="button" value="▼"/>	user_id	fname	lname	phone	username	email	password_hash
<input type="checkbox"/>				6	Ye Myat	Kyaw	09762007221	Yemyat70	yemyat76200@gmail.com	\$2y\$10\$Znof5Pr3mzUYtsDm0PNNRReNIHR/Qc8CCzGm3Rj1K9Zm...
<input type="checkbox"/>				7	Aung Kaung	Myat	09762007222	Aung67	aung2@gmail.com	\$2y\$10\$7ac9BuSHChBwmO2f/2AYteqXExNkyol5i8mgnbP1x/a...
<input type="checkbox"/>				9	Thu	Thu	09762007226	Thu78	Thu78@gmail.com	\$2y\$10\$nPc3a.FeZPjd72CG9/FdW.CdYkcTjRzFWKCjtVaSdfC...
<input type="checkbox"/>				10	Tun	Tun	09762007220	tun78	Tun78@gmail.com	\$2y\$10\$GmNVljQ8zhz0ZikcYk/XE.pN1rGjdFwgysgf4F6.HY9...
<input type="checkbox"/>				11	Ye	Gyi	09762007221	YeGyi	yegyi76200@gmail.com	\$2y\$10\$E3McliUwqiHAe9Flkx3hkuc8ro9.hzDvrLkAEFEcdJ2...

C. Learning Outcomes

Finishing this back-end web development project was a great boost for my technical and professional skills. I got a chance to work on and through the entire design and implementation of a database-driven web application by using PHP and MySQL such as the creation of relational database schemas, defining primary and foreign keys, and using database diagrams (ERDs) for structurally planning the system logically. In addition, I became more aware of the server-side programming concepts which included session management, authentication, role-based access control, and securing passwords using hashing techniques.

This learning is very important for my job search since employers are on the lookout for those candidates who are able to develop web applications that are functional, secure, and well-structured. The project is a solid proof of my capability to convert requirements into a working system, to handle real-world technologies and to follow best practices in back-end development, which not only increases my confidence but also makes me job-ready as a junior web developer.

D. Version Control and Deployment Practices

i. Better utilization of version control

The whole project would reap significant benefits if it used the version control tools like Git more efficiently. A systematic repository with descriptive commit messages and uniform branching tactics (for instance, differentiating between development and master branches) would allow the entire process of codebase introduction to be monitored, inspected, and even undone if necessary. Besides, version control allows making mistakes more safely, since new functionalities or corrections can be placed in separate branches and thus not disturb the application's version that is safe. In a setting where all the team members are working together, this practice has a tendency to minimize and reduce the number of conflicts, to increase and improve the accountability, and to make certain that the history of the project is clear—showing how the system has changed over time. (geeksforgeeks, 2026) (git, 2026)

ii. Advantages of continuous integration (CI)

The use of continuous integration (CI) practices would have a huge positive impact on the overall quality of the software development process. The CI method integrates the newly changed code through running tests and performing basic checks on automatic basis each time an update to the repository is made. This, as a result, leads to quicker detection of bugs, less experienced problems during integration and it being assured that the application is not unstable at any time during the entire development process. Moreover, through CI integration, coding becomes more disciplined, and less time for the development process is required because there is quicker feedback on the quality of the code. (geeksforgeeks, 2026)

iii. Benefits of cloud-based deployment

Utilizing web deployment based on the cloud can augment the scalability and reliability of the project. Cloud platforms provide the possibility to dynamically scale resources like server capacity and storage according to the user demand. Thus, the performance during the traffic peaks is being kept at a high level. Furthermore, cloud-based deployment guarantees reliability by the means of features such as automatic backups, redundancy, and high availability which can lead to a reduction of downtimes and also supporting a long-term system growth. (solutions, 2026)

E. Challenges and Solutions

OS

At the beginning of the project, Kali Linux OS was used, so there were some file path problems. The OS did not allow new files in root/etc./. Therefore, it was only possible to change the OS to window 11.

Xampp shutdown error

Xampp on window OS had many errors, frequent shutdowns, and files were damaged, so I had to rebuild and rebuild the database.

Session management / login and logout time

Implementing user authentication and session management securely was also a challenge. We successfully solved this problem by using password hashing, session validation, and separating user and admin functionality. As we gradually addressed these challenges, we were able to create a stable and usable web application for the entire system.

The process of building this back-end web application project was not all smooth and easy. One of the major difficulties was the task of creating a relational database model that would depict the system requirements correctly and would not contain repeating data. The solution to this issue was to initially sketch an ERD (Entity Relationship Diagram) and then methodically alter the table relationships.

F. Testing Table

Test Area	Test Case Description	Expected Outcomes
Home Page	Review the responsiveness and functionality of the navigation bar.	Review the responsiveness and functionality of the navigation bar.
Recipe Page	Checking how filters work	All cuisine, difficulty, dietary Can filter
Contact page	Users desiring interaction must always stop short at giving answers.	An anonymous user may post a message on the contact page.
Login timer	In case a user tries to log in with the wrong password three times, the account will be locked.	Login is blocked if user enter wrongly three times
Join us popup on home page	When the user first arrives on the site, a popup will appear if he clicks on the Join Us menu.	Click on Join us and a popup will appear
Approve recipe on admin side	Approvals would be needed on the administrative side once users put up recipes in their Cookbook.	The admin will have to judge the book and place it into the Cookbook section.
Admin dashboard	The total number of contacts one works for that individual admin dashboard user!	On the admin side, the Contact monitoring feature functioning of entire recipe users.