

Kingdom of Saudi Arabia

Umm Al-Qura University

College of Computing



Code & Crumble_{CS3810T}

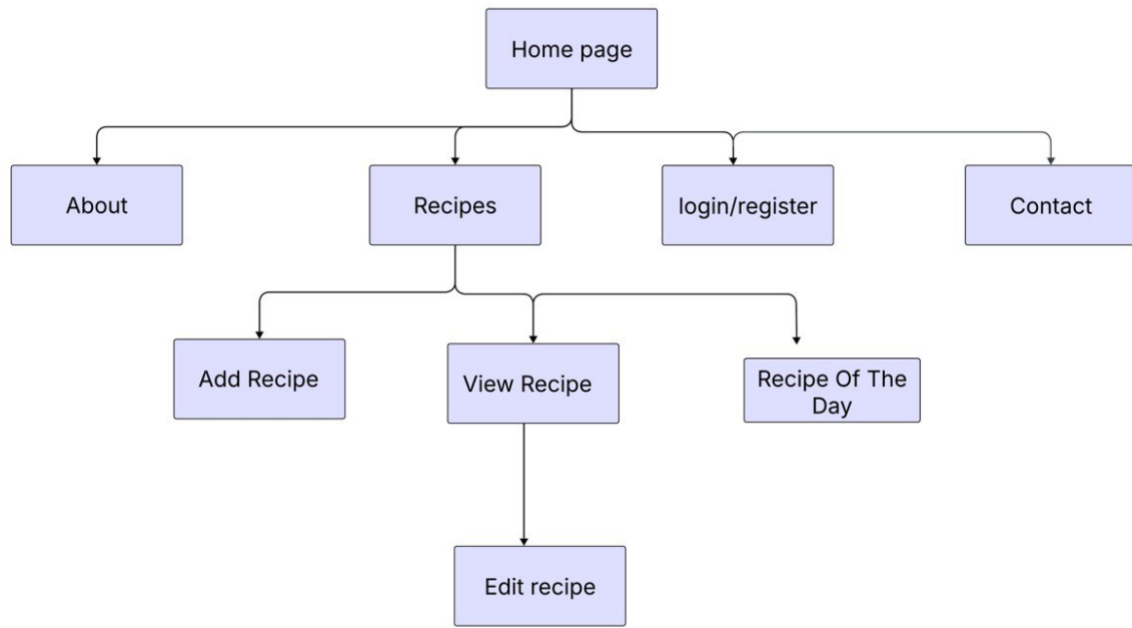
Web Development Project

Project idea:

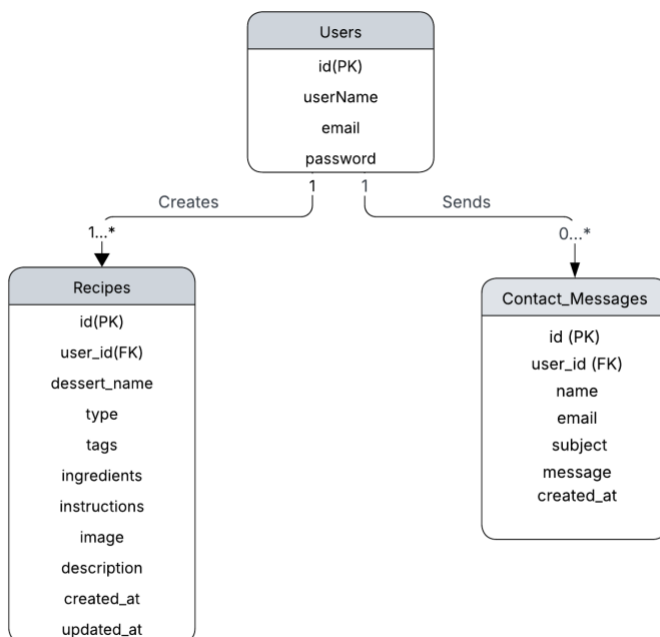
Code & Crumble Is a simple and user friendly web application designed for dessert lovers to share and discover sweet recipes. Users can create an account, add their favorite recipes, browse other people's creations, and edit or delete their own posts. The goal of this project is to develop an enjoyable and simple platform that incorporates key web development concepts such as HTML, CSS, JavaScript, React, and database integration.

2) System design:

Site Map:

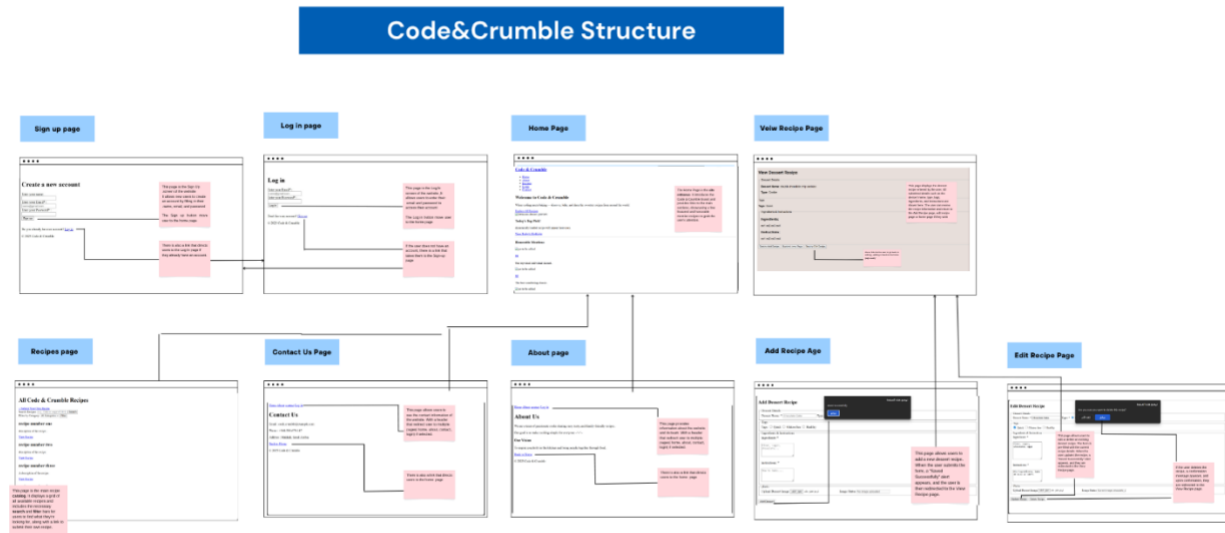


ERD Diagram:



Current Progress:

Website Structure:



Brief Explanation:

- **Home page:** The Home Page is the **site entrance**. It introduces the Code & Crumble brand and provides links to the main sections, showcasing a few featured and honorable mention recipes to grab the user's attention.
- **Login page:** This page is the Log In screen of the website ,It allows users to enter their email and password to access their account. The Log in button move user to the home page. If the user does not have an account, there is a link that takes them to the Sign-up page.
- **Signup page:** This page is the Sign Up screen of the website, It allows new users to create an account by filling in their name, email, and password. The Sign up button move user to the home page. There is also a link that directs users to the Log In page if they already have an account.

- **Contact page:** This page allows users to contact the website team. It includes a header with navigation links to Home, Recipes, Login, About,. The page displays the website's contact email and provides a contact form where users can enter their name, email, subject, and message to send feedback or inquiries.
- **About:** This page provides information about the website and its team. With a header that redirect user to multiple pages(home, contact, login) if selected, There is also a link that directs users to the home page.
- **Recipes page:** This page is the main **recipe catalog**. It displays a grid of all available recipes and includes the necessary search and filter bars for users to find what they're looking for, along with a link to submit their own recipe.
- **Add Recipe page:** This page allows users to add a new dessert recipe. When the user submits the form, a “Saved Successfully” alert appears, and the user is then redirected to the View Recipe page.
- **Edit Recipe:** This page allows users to edit or delete an existing dessert recipe. The form is pre-filled with the current recipe details. When the user updates the recipe, a “Saved Successfully” alert appears, and they are redirected to the View Recipe page.
- **View Recipe:** This page displays the dessert recipe entered by the user. All submitted details such as the dessert name, type, tags, ingredients, and instructions are shown here. The user can review the recipe information and return to the Add Recipe page, edit recipe page or home page if they wish. these links let the user to go back to editing , adding or back to the home page easily
- **Recipe of the Day:** This page displays a randomly selected dessert recipe from the database. It shows the recipe details such as the dessert name, type, image, ingredients, and instructions. A button allows the user to refresh the page and view another random recipe, and the header links help the user navigate back to the home page or other sections easily

Remaining Work:

1. Add CSS styling to enhance the visual design and consistency of the website.
2. Implement JavaScript for form validation and interactive elements (such as alerts or dynamic updates).
3. Connect the pages to a database for storing user information and recipes.
4. Finalize the overall design and responsiveness.

Implementation:

html&php:

[illegible][illegible]

```

17 if ($SERVER["REQUEST_METHOD"] == "POST") {
18     } else {
19     } else {
20         if ($stat->execute()) {
21         }
22         $stat->close();
23     }
24 }
25
26 // 3. FETCH EXISTING RECIPE DATA FOR PREFILLING THE FORM
27
28 $safe_id = mysqli_real_escape_string($conn, $recipe_id);
29 $sql_fetch = "SELECT * FROM recipes WHERE id = '$safe_id' AND user_id = '$user_id'";
30 $result_fetch = mysqli_query($conn, $sql_fetch);
31
32 if ($result_fetch AND mysqli_num_rows($result_fetch) > 0) {
33     $recipe = mysqli_fetch_assoc($result_fetch);
34 } else {
35     die("Error: Recipe not found or you do not have permission.");
36 }
37
38 // Helper function to safely output text
39 if (!function_exists("e")) {
40     function e($text) {
41         return htmlspecialchars($text ?? "");
42     }
43 }
44
45 //
46 <DOCTYPE html>
47 <html lang="en">
48 <head>
49     <meta charset="UTF-8">
50     <title>Edit Recipe</title>
51     <link rel="stylesheet" href="style.css">
52 </head>
53 <body class="edit-page">
54
55     <header class="main-header">
56         <nav class="navbar">
57             <a href="#" class="nav-item">

```

```

1 <?php
2 require_once "db.php"; // Connect to the database
3
4 // Check if the form was submitted using POST
5 if ($_SERVER["REQUEST_METHOD"] === "POST") {
6
7     // 1) Get the form values
8     $name = htmlspecialchars($_POST["name"]);
9     $email = htmlspecialchars($_POST["email"]);
10    $subject = htmlspecialchars($_POST["subject"]);
11    $message = htmlspecialchars($_POST["message"]);
12
13    // 2) Simple validation: check if any field is empty
14    if ($name == "" || $email == "" || $subject == "" || $message == "") {
15        echo "<div style='color:red;'>Please fill in all fields.</div>";
16        exit;
17    }
18
19    // 3) Check if the email exists in the users table
20    $user_id = NULL; // Default NULL for guest
21    $sql_user = "SELECT id FROM users WHERE email = '$email'";
22    $result_user = $conn->query($sql_user);
23    if ($result_user && $result_user->num_rows > 0) {
24        $row = $result_user->fetch_assoc();
25        $user_id = $row['id']; // link the message to the user
26    }
27
28    // 4) Determine user_id value for insertion without using ternary
29    if ($user_id != NULL) {
30        $user_id_value = $user_id;
31    } else {
32        $user_id_value = "NULL";
33    }
34
35    // 5) SQL query to insert the data into the database
36    $sql = "INSERT INTO contact_messages (user_id, name, email, subject, message)
37    VALUES ($user_id_value, '$name', '$email', '$subject', '$message')";
38
39    // 6) Run the SQL query
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```

CSS:

```

1 .view-all-link a:hover {
2     color: #15302d;
3 }
4
5
6
7 /*----- BACKDROP GRAPHICS----- */
8
9
10 .cake-graphic-backdrop-left {
11     position: absolute;
12
13     /* moves the image off to the left */
14     left: -400px;
15
16     /* slightly higher position */
17     top: -100px;
18
19     width: 600px;
20     height: 600px;
21
22     /* Placeholder for a cake slice transparent PNG */
23     background-image: url('images/pie.png');
24     background-size: contain;
25     background-repeat: no-repeat;
26
27     /* CRITICAL: Pushes graphic behind all content */
28     z-index: -1;
29
30     /* Subtlety */
31     opacity: 0.35;
32     pointer-events: none;
33 }
34
35 .cookie-graphic-backdrop {
36     position: absolute;
37
38     /* puts the image to the right */
39     right: -250px;
40
41     bottom: 90px;
42
43     /*size of the image */
44     width: 400px;
45 }
46
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```


JavaScript:

```

1 // scripts.js
2 // Update image status when user selects a file add/edit
3
4 function updateStatus() {
5     const fileInput = document.getElementById('recipe_file');
6     const status = document.getElementById('status');
7
8     if (!fileInput || !status) return;
9
10    if (fileInput.files.length === 0) {
11        status.value = "No image uploaded";
12        status.classList.remove('uploaded-status');
13    } else {
14        status.value = "Image: " + fileInput.files[0].name;
15        status.classList.add('uploaded-status');
16    }
17 }

```

Database:

```

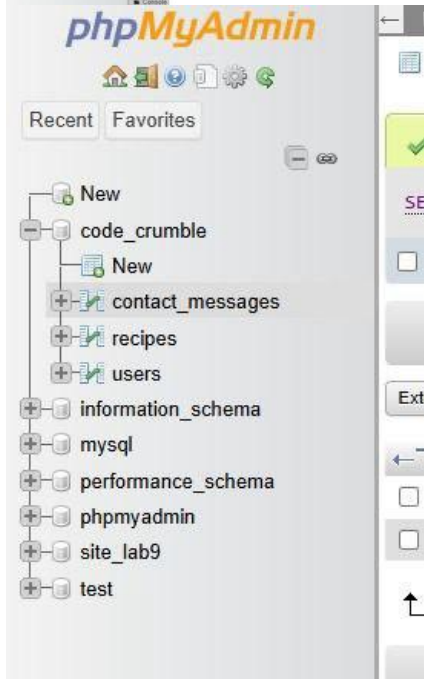
index.php db.php x signup.php contact.php login.php # style.css
C: > xampp > htdocs > code_crumble_project > db.php
1 <?php
2 $host = "localhost";
3 $user = "root"; // default XAMPP username
4 $pass = ""; // default password = empty
5 $dbname = "code_crumble";
6
7 $conn = mysqli_connect($host, $user, $pass, $dbname);
8
9 if (!$conn) {
10     die("Connection failed: " . mysqli_connect_error());
11 }
12 ?>
13

```

Showing rows 1 - 4 (4 total, Query took 0.002 seconds) (Refresh, status NONE, TOP PICK...)

SELECT * FROM `recipes` WHERE `featured_status` = 0

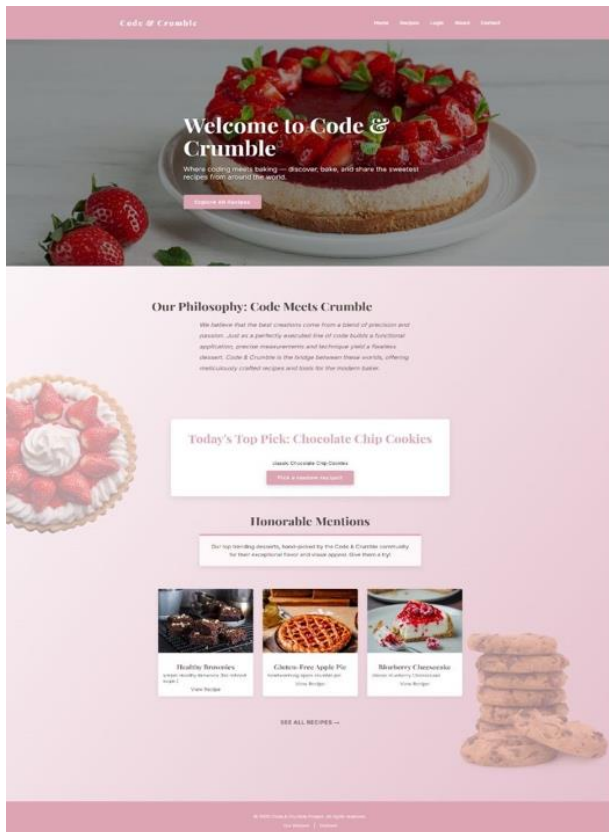
Showing 4 (4) rows [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] [26] [27] [28] [29] [30] [31] [32] [33] [34] [35] [36] [37] [38] [39] [40] [41] [42] [43] [44] [45] [46] [47] [48] [49] [50] [51] [52] [53] [54] [55] [56] [57] [58] [59] [60] [61] [62] [63] [64] [65] [66] [67] [68] [69] [70] [71] [72] [73] [74] [75] [76] [77] [78] [79] [80] [81] [82] [83] [84] [85] [86] [87] [88] [89] [90] [91] [92] [93] [94] [95] [96] [97] [98] [99] [100] [101] [102] [103] [104] [105] [106] [107] [108] [109] [110] [111] [112] [113] [114] [115] [116] [117] [118] [119] [120] [121] [122] [123] [124] [125] [126] [127] [128] [129] [130] [131] [132] [133] [134] [135] [136] [137] [138] [139] [140] [141] [142] [143] [144] [145] [146] [147] [148] [149] [150] [151] [152] [153] [154] [155] [156] [157] [158] [159] [160] [161] [162] [163] [164] [165] [166] [167] [168] [169] [170] [171] [172] [173] [174] [175] [176] [177] [178] [179] [180] [181] [182] [183] [184] [185] [186] [187] [188] [189] [190] [191] [192] [193] [194] [195] [196] [197] [198] [199] [200] [201] [202] [203] [204] [205] [206] [207] [208] [209] [210] [211] [212] [213] [214] [215] [216] [217] [218] [219] [220] [221] [222] [223] [224] [225] [226] [227] [228] [229] [230] [231] [232] [233] [234] [235] [236] [237] [238] [239] [240] [241] [242] [243] [244] [245] [246] [247] [248] [249] [250] [251] [252] [253] [254] [255] [256] [257] [258] [259] [260] [261] [262] [263] [264] [265] [266] [267] [268] [269] [270] [271] [272] [273] [274] [275] [276] [277] [278] [279] [280] [281] [282] [283] [284] [285] [286] [287] [288] [289] [290] [291] [292] [293] [294] [295] [296] [297] [298] [299] [300] [301] [302] [303] [304] [305] [306] [307] [308] [309] [310] [311] [312] [313] [314] [315] [316] [317] [318] [319] [320] [321] [322] [323] [324] [325] [326] [327] [328] [329] [330] [331] [332] [333] [334] [335] [336] [337] [338] [339] [340] [341] [342] [343] [344] [345] [346] [347] [348] [349] [350] [351] [352] [353] [354] [355] [356] [357] [358] [359] [360] [361] [362] [363] [364] [365] [366] [367] [368] [369] [370] [371] [372] [373] [374] [375] [376] [377] [378] [379] [380] [381] [382] [383] [384] [385] [386] [387] [388] [389] [390] [391] [392] [393] [394] [395] [396] [397] [398] [399] [400] [401] [402] [403] [404] [405] [406] [407] [408] [409] [410] [411] [412] [413] [414] [415] [416] [417] [418] [419] [420] [421] [422] [423] [424] [425] [426] [427] [428] [429] [430] [431] [432] [433] [434] [435] [436] [437] [438] [439] [440] [441] [442] [443] [444] [445] [446] [447] [448] [449] [450] [451] [452] [453] [454] [455] [456] [457] [458] [459] [460] [461] [462] [463] [464] [465] [466] [467] [468] [469] [470] [471] [472] [473] [474] [475] [476] [477] [478] [479] [480] [481] [482] [483] [484] [485] [486] [487] [488] [489] [490] [491] [492] [493] [494] [495] [496] [497] [498] [499] [500] [501] [502] [503] [504] [505] [506] [507] [508] [509] [510] [511] [512] [513] [514] [515] [516] [517] [518] [519] [520] [521] [522] [523] [524] [525] [526] [527] [528] [529] [530] [531] [532] [533] [534] [535] [536] [537] [538] [539] [540] [541] [542] [543] [544] [545] [546] [547] [548] [549] [550] [551] [552] [553] [554] [555] [556] [557] [558] [559] [560] [561] [562] [563] [564] [565] [566] [567] [568] [569] [570] [571] [572] [573] [574] [575] [576] [577] [578] [579] [580] [581] [582] [583] [584] [585] [586] [587] [588] [589] [590] [591] [592] [593] [594] [595] [596] [597] [598] [599] [600] [601] [602] [603] [604] [605] [606] [607] [608] [609] [610] [611] [612] [613] [614] [615] [616] [617] [618] [619] [620] [621] [622] [623] [624] [625] [626] [627] [628] [629] [630] [631] [632] [633] [634] [635] [636] [637] [638] [639] [640] [641] [642] [643] [644] [645] [646] [647] [648] [649] [650] [651] [652] [653] [654] [655] [656] [657] [658] [659] [660] [661] [662] [663] [664] [665] [666] [667] [668] [669] [670] [671] [672] [673] [674] [675] [676] [677] [678] [679] [680] [681] [682] [683] [684] [685] [686] [687] [688] [689] [690] [691] [692] [693] [694] [695] [696] [697] [698] [699] [700] [701] [702] [703] [704] [705] [706] [707] [708] [709] [710] [711] [712] [713] [714] [715] [716] [717] [718] [719] [720] [721] [722] [723] [724] [725] [726] [727] [728] [729] [730] [731] [732] [733] [734] [735] [736] [737] [738] [739] [740] [741] [742] [743] [744] [745] [746] [747] [748] [749] [750] [751] [752] [753] [754] [755] [756] [757] [758] [759] [760] [761] [762] [763] [764] [765] [766] [767] [768] [769] [770] [771] [772] [773] [774] [775] [776] [777] [778] [779] [780] [781] [782] [783] [784] [785] [786] [787] [788] [789] [790] [791] [792] [793] [794] [795] [796] [797] [798] [799] [800] [801] [802] [803] [804] [805] [806] [807] [808] [809] [810] [811] [812] [813] [814] [815] [816] [817] [818] [819] [820] [821] [822] [823] [824] [825] [826] [827] [828] [829] [830] [831] [832] [833] [834] [835] [836] [837] [838] [839] [840] [841] [842] [843] [844] [845] [846] [847] [848] [849] [850] [851] [852] [853] [854] [855] [856] [857] [858] [859] [860] [861] [862] [863] [864] [865] [866] [867] [868] [869] [870] [871] [872] [873] [874] [875] [876] [877] [878] [879] [880] [881] [882] [883] [884] [885] [886] [887] [888] [889] [890] [891] [892] [893] [894] [895] [896] [897] [898] [899] [900] [901] [902] [903] [904] [905] [906] [907] [908] [909] [910] [911] [912] [913] [914] [915] [916] [917] [918] [919] [920] [921] [922] [923] [924] [925] [926] [927] [928] [929] [930] [931] [932] [933] [934] [935] [936] [937] [938] [939] [940] [941] [942] [943] [944] [945] [946] [947] [948] [949] [950] [951] [952] [953] [954] [955] [956] [957] [958] [959] [960] [961] [962] [963] [964] [965] [966] [967] [968] [969] [970] [971] [972] [973] [974] [975] [976] [977] [978] [979] [980] [981] [982] [983] [984] [985] [986] [987] [988] [989] [990] [991] [992] [993] [994] [995] [996] [997] [998] [999] [1000] [1001] [1002] [1003] [1004] [1005] [1006] [1007] [1008] [1009] [1010] [1011] [1012] [1013] [1014] [1015] [1016] [1017] [1018] [1019] [1020] [1021] [1022] [1023] [1024] [1025] [1026] [1027] [1028] [1029] [1030] [1031] [1032] [1033] [1034] [1035] [1036] [1037] [1038] [1039] [1040] [1041] [1042] [1043] [1044] [1045] [1046] [1047] [1048] [1049] [1050] [1051] [1052] [1053] [1054] [1055] [1056] [1057] [1058] [1059] [1060] [1061] [1062] [1063] [1064] [1065] [1066] [1067] [1068] [1069] [1070] [1071] [1072] [1073] [1074] [1075] [1076] [1077] [1078] [1079] [1080] [1081] [1082] [1083] [1084] [1085] [1086] [1087] [1088] [1089] [1090] [1091] [1092] [1093] [1094] [1095] [1096] [1097] [1098] [1099] [1100] [1101] [1102] [1103] [1104] [1105] [1106] [1107] [1108] [1109] [1110] [1111] [1112] [1113] [1114] [1115] [1116] [1117] [1118] [1119] [1120] [1121] [1122] [1123] [1124] [1125] [1126] [1127] [1128] [1129] [1130] [1131] [1132] [1133] [1134] [1135] [1136] [1137] [1138] [1139] [1140] [1141] [1142] [1143] [1144] [1145] [1146] [1147] [1148] [1149] [1150] [1151] [1152] [1153] [1154] [1155] [1156] [1157] [1158] [1159] [1160] [1161] [1162] [1163] [1164] [1165] [1166] [1167] [1168] [1169] [1170] [1171] [1172] [1173] [1174] [1175] [1176] [1177] [1178] [1179] [1180] [1181] [1182] [1183] [1184] [1185] [1186] [1187] [1188] [1189] [1190] [1191] [1192] [1193] [1194] [1195] [1196] [1197] [1198] [1199] [1200] [1201] [1202] [1203] [1204] [1205] [1206] [1207] [1208] [1209] [1210] [1211] [1212] [1213] [1214] [1215] [1216] [1217] [1218] [1219] [1220] [1221] [1222] [1223] [1224] [1225] [1226] [1227] [1228] [1229] [1230] [1231] [1232] [1233] [1234] [1235] [1236] [1237] [1238] [1239] [1240] [1241] [1242] [1243] [1244] [1245] [1246] [1247] [1248] [1249] [1250] [1251] [1252] [1253] [1254] [1255] [1256] [1257] [1258] [1259] [1260] [1261] [1262] [1263] [1264] [1265] [1266] [1267] [1268] [1269] [1270] [1271] [1272] [1273] [1274] [1275] [1276] [1277] [1278] [1279] [1280] [1281] [1282] [1283] [1284] [1285] [1286] [1287] [1288] [1289] [1290] [1291] [1292] [1293] [1294] [1295] [1296] 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Screenshots & Testing:

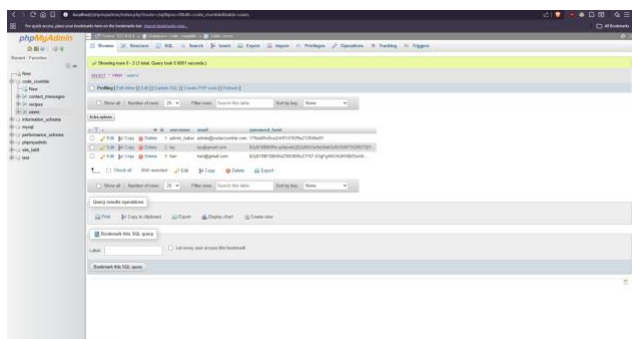
Home Page Test Cases

Display Featured Recipes

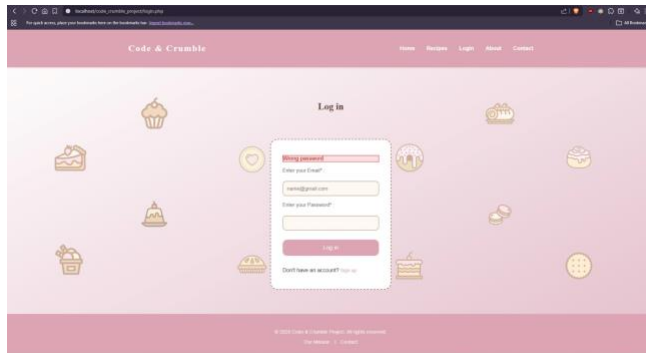


Login Page Test Cases:

Login with Valid Credentials



Login with Invalid Credentials



Signup Page Test Cases:

Create New Account

Showing rows 0 - 1 (2 total, Query took 0.0002 seconds)

SELECT * FROM `contact_messages`

Profiling | Edit inline | Edit | Explain SQL | Create PHP code | Refresh

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

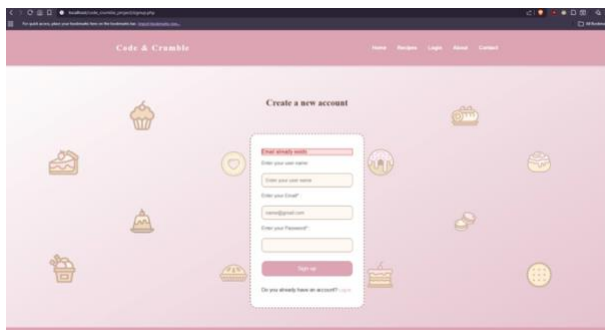
Extra options

	id	user_id	name	email	subject	message	created_at
<input type="checkbox"/>	1	NULL	layan	layanlop4@gmail.com	course	hello	2025-12-16 14:50:24
<input type="checkbox"/>	2	NULL	han	layanlop0@gmail.com	sweet	I love sweets	2025-12-16 18:52:22

Check all | With selected | Edit | Copy | Delete | Export

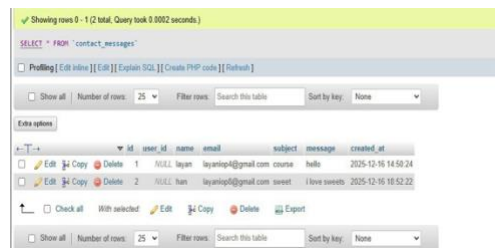
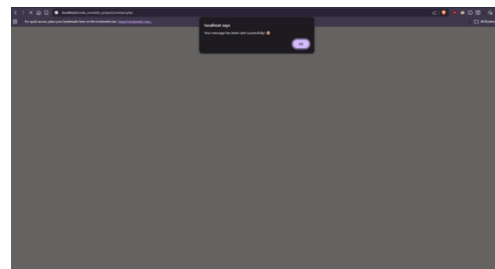
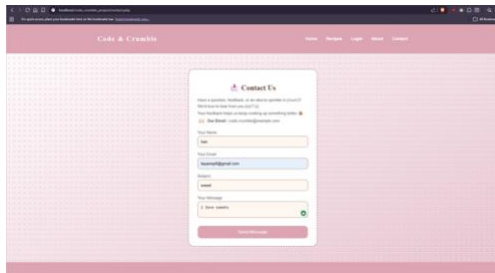
Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Signup Form Validation



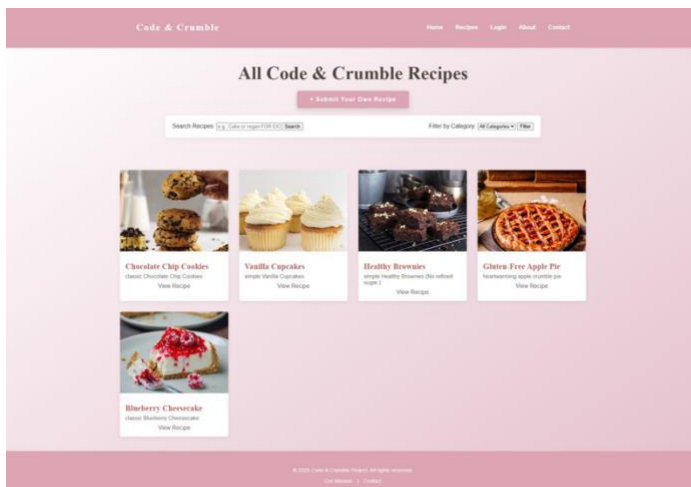
Contact Page Test Cases:

Display Contact Information

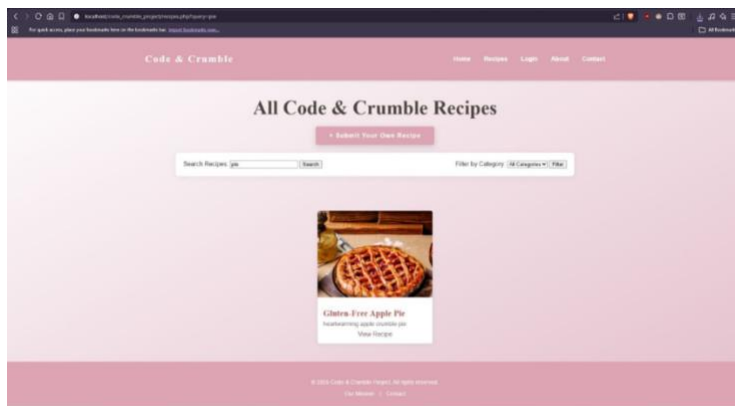


Recipes Page Test Cases

Display All Recipes



Search Recipes

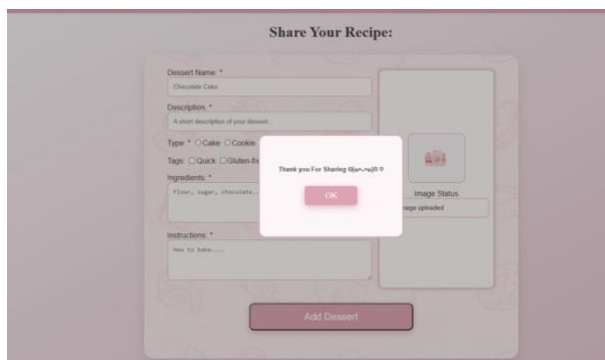


Filter Recipes



Add Recipe Page Test Cases

Add Recipe successfully



Add Recipe Validation

The screenshot shows the 'Share Your Recipe' form in the Code & Crumble application. The form is titled 'Share Your Recipe:' and is set against a light pink background with a faint pattern of cookies. It contains several input fields and a submit button. The fields are: 'Recipe Name' (text input), 'Description' (text input with a placeholder 'Please fill out this field'), 'Type' (radio buttons for 'Cake', 'Cookie', and 'Pie'), 'Tags' (checkboxes for 'Quick', 'Gluten-free', and 'Healthy'), 'Ingredients' (text input with a placeholder 'Enter ingredients here...'), and 'Instructions' (text input with a placeholder 'Enter instructions here...'). To the right of the form is a placeholder for an image, showing a 'No image uploaded' status. At the bottom of the form is a pink 'Add Recipe' button. The application's header includes the logo 'Code & Crumble' and navigation links for 'Home', 'Recipes', 'Login', 'About', and 'Contact'.

Edit Recipe Page Test Cases

Load Existing Recipe Data

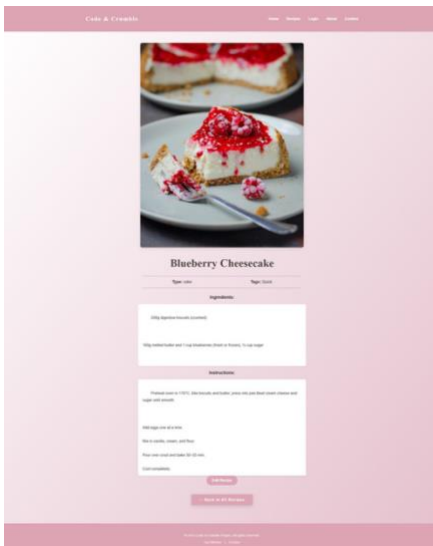
The screenshot shows the 'Edit Your Recipe' form in the Code & Crumble application. The form is titled 'Edit Your Recipe:' and is set against a light pink background with a faint pattern of cookies. It contains several input fields and a submit button. The fields are: 'Recipe Name' (text input with pre-filled text 'Berry Cheesecake'), 'Description' (text input with pre-filled text 'A delicious Berry Cheesecake'), 'Type' (radio buttons for 'Cake', 'Cookie', and 'Pie', with 'Cake' selected), 'Tags' (checkboxes for 'Quick', 'Gluten-free', and 'Healthy', with 'Quick' selected), 'Ingredients' (text input with pre-filled text '1 cup all-purpose flour (sifted), 1/2 cup butter, 1/2 cup white sugar, 1 egg, 1/2 cup milk'), and 'Instructions' (text input with pre-filled text 'Preheat oven to 350°F. Mix flour, sugar, and butter in a bowl. Add eggs and milk. Bake for 20 minutes. Cool and serve.'). To the right of the form is a placeholder for an image, showing a 'No image uploaded' status. At the bottom of the form is a pink 'Update Recipe' button. The application's header includes the logo 'Code & Crumble' and navigation links for 'Home', 'Recipes', 'Login', 'About', and 'Contact'.

Update Recipe

The screenshot shows the 'Edit Your Recipe' form in the Code & Crumble application. The form is titled 'Edit Your Recipe:' and is set against a light pink background with a faint pattern of cookies. It contains several input fields and a submit button. The fields are: 'Recipe Name' (text input with pre-filled text 'Berry Cheesecake'), 'Description' (text input with pre-filled text 'A delicious Berry Cheesecake'), 'Type' (radio buttons for 'Cake', 'Cookie', and 'Pie', with 'Cake' selected), 'Tags' (checkboxes for 'Quick', 'Gluten-free', and 'Healthy', with 'Quick' selected), 'Ingredients' (text input with pre-filled text '1 cup all-purpose flour (sifted), 1/2 cup butter, 1/2 cup white sugar, 1 egg, 1/2 cup milk'), and 'Instructions' (text input with pre-filled text 'Preheat oven to 350°F. Mix flour, sugar, and butter in a bowl. Add eggs and milk. Bake for 20 minutes. Cool and serve.'). To the right of the form is a placeholder for an image, showing a 'No image uploaded' status. At the bottom of the form is a pink 'Update Recipe' button. A confirmation dialog box is displayed over the form, asking 'Are you sure you want to update this recipe?' with 'Yes' and 'No' buttons. The application's header includes the logo 'Code & Crumble' and navigation links for 'Home', 'Recipes', 'Login', 'About', and 'Contact'.

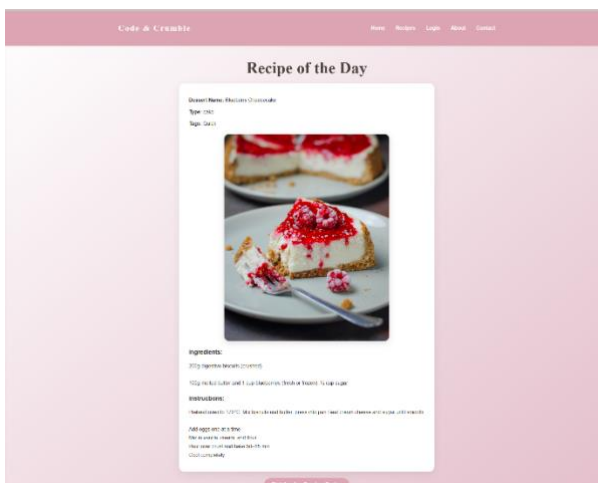
View Recipe Page Test Cases

Display Recipe Details



Recipe of the Day Page Test Cases

Display Random Recipe



Conclusion

The Code & Crumble website was successfully developed to allow users to browse, add, edit, and manage dessert recipes easily. The system provides clear navigation and core features that work as intended, offering a simple and user-friendly experience.

Future Work

Future improvements may include adding user profiles, as well as recipe ratings and comments, to further improve usability and user engagement.

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