

National Technical University School of Electrical and Computer Engineering

Class: Databases
User Manual of Semester Project

Group Number: 65

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Introduction to the Cooking Competition Management System

The app we have developed is designed to streamline the organization, storage and management of all essential information required for the smooth operation of a cooking competition. Whether you're an administrator, a cook, or a judge, this platform is built to enhance your experience and efficiency throughout the competition.

The key features of the app include include:

- 1. Recipe Management:
 - Recipes are classified by type (cooking or pastry), national cuisine (e.g. Italian, Mexican), difficulty level (1 to 5) and meal type (e.g. breakfast, brunch, dinner).
 - Each recipe includes a name, short description, tags (e.g. quick-lunch, cold dish) and useful tips (up to 3 per recipe).
 - Detailed step-by-step instructions, required equipment with usage guidelines and time breakdown (preparation and cooking time).

■ Specific ingredients with quantities, a base ingredient for classification (e.g. vegetarian, seafood) and dynamic nutritional information per serving.

2. Equipment and Ingredient Management:

- List of necessary tools for each recipe with detailed instructions for use.
- Ingredients grouped into food groups (e.g. dairy, vegetables) with detailed descriptions and nutritional data.

3. Cooks and Judges Management:

- Users' profiles include personal information, contact details, professional experience and specializations in national cuisines.
- Designations such as 3rd cook, 2nd cook, 1st cook, assistant chef and chef.

4. Competition Management:

- The system automates the selection of 10 national cuisines, 10 cooks, 3 judges and 1 recipe per cuisine for each of the 10 annual episodes. Ensures fair rotation and compliance with participation rules.
- Judges score each recipe execution on a scale of 1 to 5. The system determines the winner based on scores, professional qualifications and random selection in case of ties.

5. User Roles and Permissions:

- Administrators have full control over data, including creating backups and restoring the system.
- Cooks have the ability to edit assigned recipes, add new recipes and update personal information.
- All users and administrators can login, enduring data integrity and privacy.

6. Multimedia Support:

■ Each entity (recipes, ingredients, equipment etc.) is accompanied by images and detailed descriptions to provide a rich visual and informative experience.

Running the App - Prerequisites

In order to run the website, the user should execute the following steps:

- 1. Install NodeJS
- 2. Run file DB Schema.sql from folder backend and create the database
- 3. Import the csv files from folder generate_data into the directory c:/xampp/mysql/data/mydb

- 4. Run file dummy data.py from folder generate data and fill the database with data
- 5. Open the /db24-65/API file in terminal
- 6. Set the encoded word for the login token, e.g.:

```
$env:MY_SECRET = "example word"
(or if you're not using PowerShell, use command:)
set MY_SECRET = example word
```

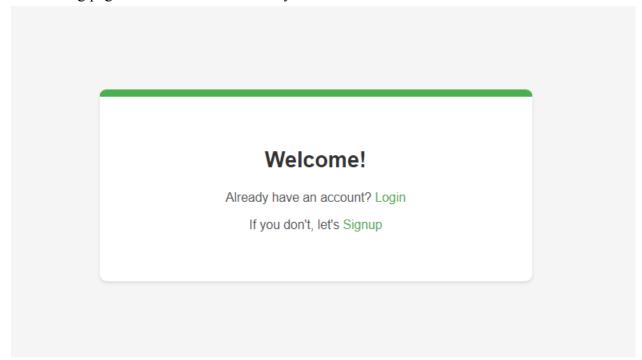
7. Run command:

```
node app.js
```

8. Go to link localhost: 9876/dacontest/ and proceed with login

Layout of the Website

The starting page of our website has this layout:



Here the user can either choose to login (if he already has an account) or create a new account by clicking on Signup

Login:

If the user chooses to login, he is redirected to this page:

	Login	
Role:		
Username:		
Password:		
	Login	

When clicking on Role, a dropdown list appears allowing the person logging in to choose his role on the website:

Role:		
Admin User		

After choosing a role, the user just has to enter his valid credentials, and click the login button:

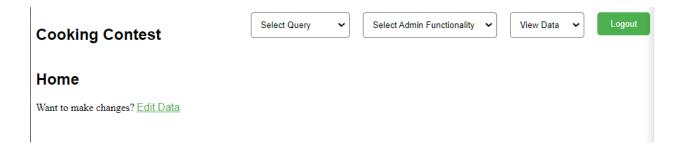
<u>Note:</u> User that are not registered as administrators will not be able to login as administrators just by choosing Admin instead of User

Signup:

If the user chooses to sign up, he is redirected to this page:

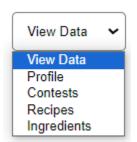
Sign Up First Name:	Here, the user may input his credentials. Since all the users of this website will be cooks participating in the cooking contest, each user must also fill in the years of experience field and also choose the most					
Last Name:	senior position he has experience on.					
Phone Number:	15					
Birth Date:	01					
1900 01	02 03 04					
Years Of Experience:	05 06 07					
Position:	08 09					
Username:	10 11 12 13 14 15 16					
Password:	17 18 19					
Confirm Password:	20					
	Position:					
Sign Up Already have an account? Log In	First Cook First Cook Second Cook Third Cook Sous-Chef					
	Chef					

After the user logs in to the website he is met with this page:



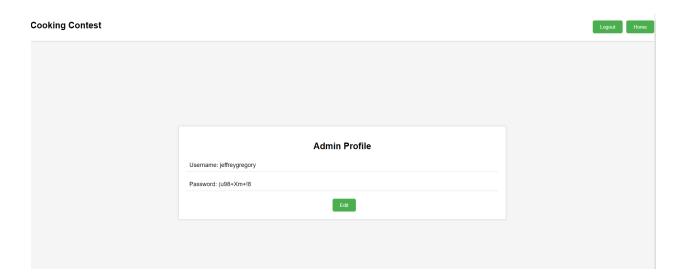
Here the user can choose and perform all of the websites function (depending on permissions)

Using the View Data dropdown list, user can choose to see:



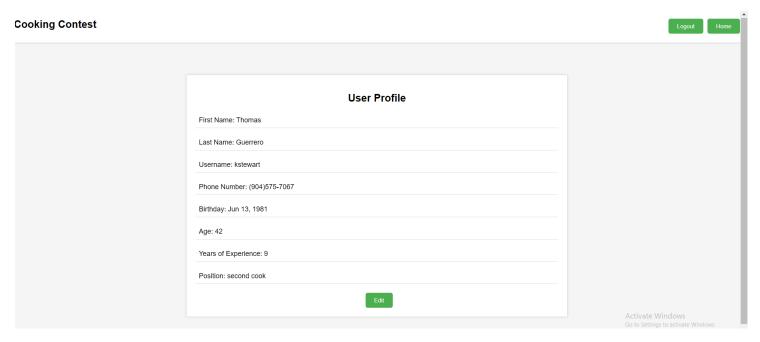
- 1. His personal profile data
- 2. All previous contest data
- 3. All recipes
- 4. All ingredients

Case: Admin Profile

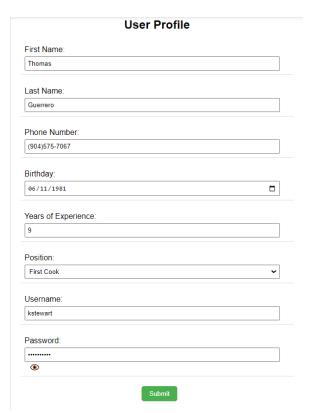


When an admin clicks on Profile, he gets redirected to this page where an admin can see and change username and password.

Case: User Profile



When a user clicks on Profile, he gets redirected to this page where a user can see and change their personal information



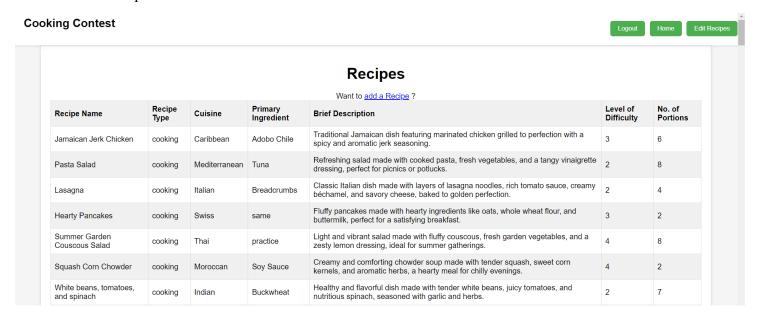
Here, the user information already registered in the DB are shown and the user can modify each field accordingly.

When editing the position field, a dropdown list appears, similar to the one we saw earlier on the signup page, to avoid a mismatch of data in the DB

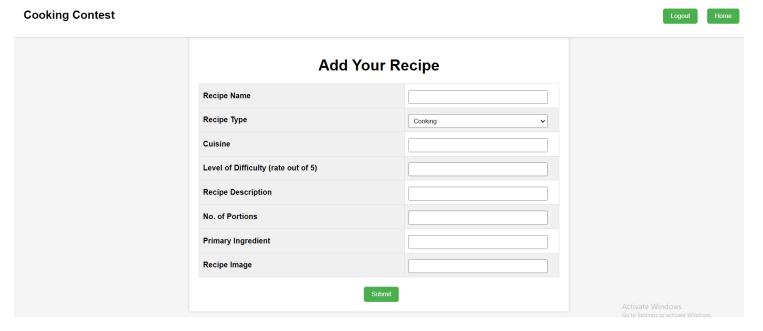
In the Admin case, a similar page shows up with editable fields for only the admin data.

Recipes:

When clicking on recipes the user is redirected to this page displaying all the recipes registered in the competition

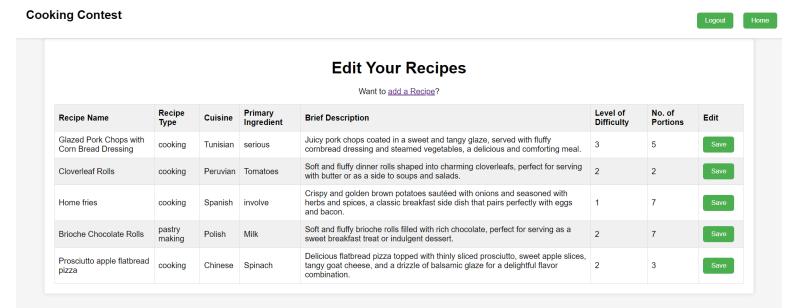


From this page the user can view all the recipes. The user has two additional options from this page: Adding a new recipe that he knows, and Editing one of his recipes. When clicking on add a Recipe the user is redirected to this page:



Here the user can specify all these fields to define a new recipe and add it to the DB.

By clicking on Edit Recipes, the user is redirected to this page where all the recipes he knows are displayed, and he can make adjustments to all the fields of the recipe.

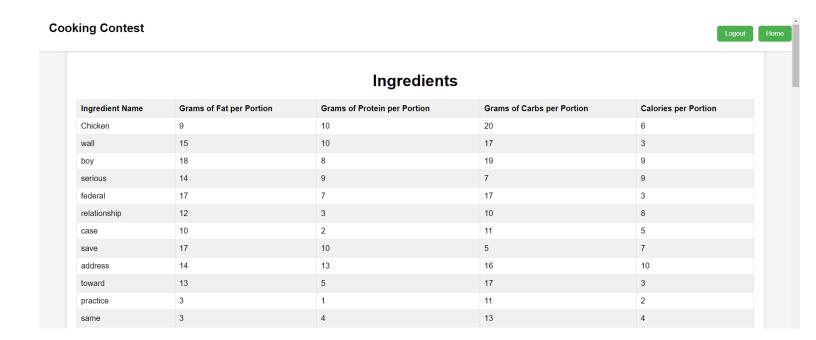


Here all the fields are editable once clicked on and the user can adjust as needed.

Ingredients:

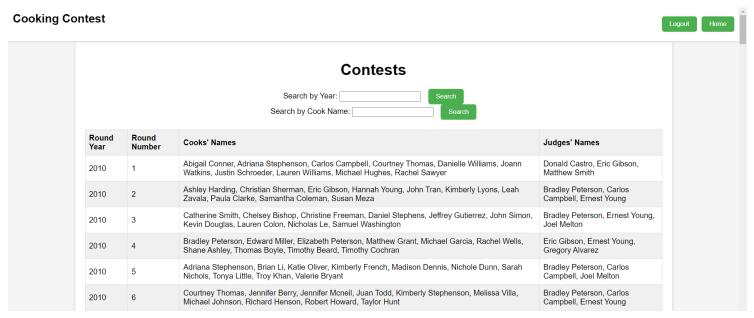
When the user clicks on ingredients he is redirected to this page where he can see all ingredients listed in the DB.

Note: Some ingredient names are just dummy string data to test for DB functionality

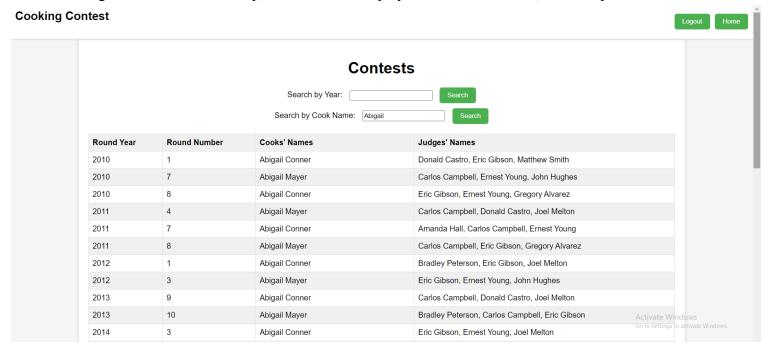


Contests:

When clicking on contests, user is redirected to this page, containing data for all contest rounds and years as well as which cooks participated in each round as well as which cooks judged in each round.

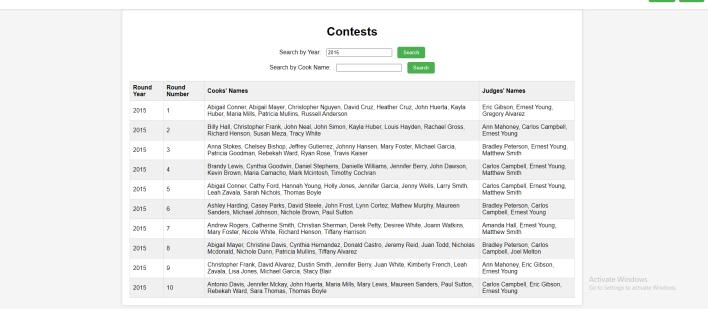


Using the search functionality, user can filter displayed data as he wishes, for example:



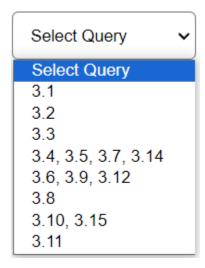
Cooking Contest

Logout Home



Queries:

Finally, the user can access all the queries we made as part of the exercise, by clicking on the Select Query dropdown list found on the home page:



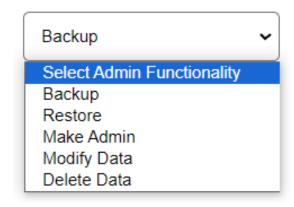
For example, if a user selects the query requests in question 3.1, he is redirected to a page containing the average cook ratings and the average cuisine rating.



Admin Functionalities:

The admin has access to all the user functionalities shown above but also to a few more mainly concerning the maintenance and usage functionality of the site.

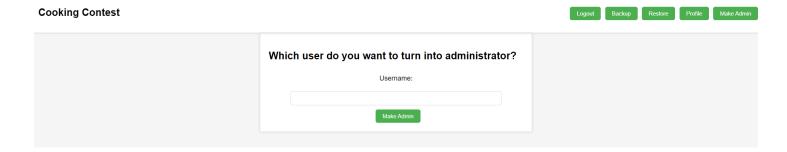
From the home page dropdown list, we can see all the additional functionalities the admin has:



- 1. Backup: The admin can make a copy of the DB by writing all DB data to CSV files
- 2. Restore: The admin restores the DB to the latest backup
- 3. Make Admin: The admin can promote a user and grant him administrator privileges
- 4. Modify Data: Here the admin can modify all the data in the DB
- 5. Delete Data: The admin can delete data existing on the DB

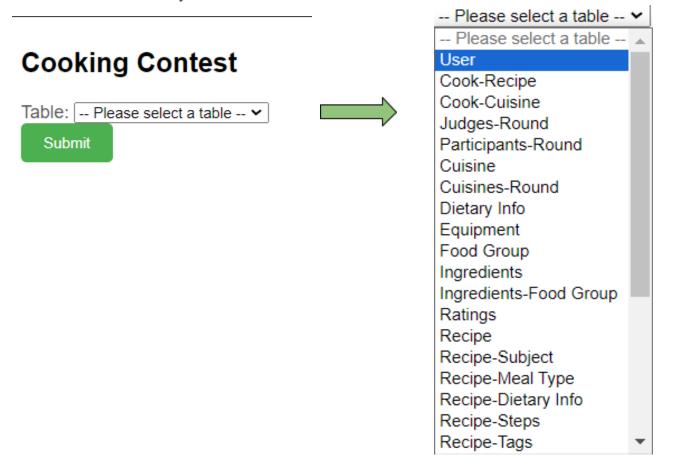
Make Admin:

The admin gets redirected to this page, where by entering the username of a user, that user is promoted to admin and granted admin privileges



Modify Data:

The admin gets redirected to this page and by clicking on this dropdown list, he can choose the table he wants to modify:



Upon selecting a table, the table is displayed on the page and the admin can modify its content just by clicking on the specific cell the admin wishes to modify:

cook_ic	d first_name	last_name	phone_number	birth_date age years_of_experience	position	cook_img	username	password
1	Thomas	Guerrero	(904)575-7067	1981-06-11 42 9	second cool	k https://placekitten.com/780/145	kstewart	!YLlIKxm2f
2	Charles	Williams	(614)855-7984	1972-05-02 52 9	second cool	k https://placekitten.com/8/806	alexandria64	L)1w7^BacU
3	Wesley	Frye	594-927-7981x286	1965-05-31 58 5	sous-chef	https://dummyimage.com/7x275	smonroe	_4ODsr1Hbg
4	Jeffery	Espinoza	(536)654-7381x20731	1995-11-13 28 4	sous-chef	https://placekitten.com/364/377	bfisher	o(5EFhpYGL
5	Daniel	Williamson	463-334-7023	1984-07-25 39 10	sous-chef	https://picsum.photos/733/801	fkeith	&2SG7b\$2#6
cook_io	d first_name	last_name	phone_number (904)575-7067	birth_date age years_of_experience 1981-06-11 42 9	-	cook_img c https://placekitten.com/780/145	username kstewart	password !YLlIKxm2f
cook_	id first_nam	ie last_nam	e phone_number	birth_date age years_of_experience	ce position	n cook_img	username	password
1	Stelios	Guerrero	(904)575-7067	1981-06-11 42 9	second co	ook https://placekitten.com/780/145	kstewart	!YLlIKxm2f

Delete Data:

When an admin selects delete data, he is redirected to the same page as modify data, however, now a delete button is present on the right side of the table and by clicking it, the admin can delete data from the DB.

cook_	id first_nam	e last_name	phone_number	birth_date age years_of_experience	position	cook_img	username	password	Actions
1	Stelios	Guerrero	(904)575-7067	1981-06-11 42 9	second coo	k https://placekitten.com/780/145	kstewart	!YLlIKxm2f	Delete
2	Charles	Williams	(614)855-7984	1972-05-02 52 9	second coo	k https://placekitten.com/8/806	alexandria64	L)1w7^BacU	Delete
3	Wesley	Frye	594-927-7981x286	1965-05-31 58 5	sous-chef	https://dummyimage.com/7x275	smonroe	_4ODsr1Hbg	Delete
4	Jeffery	Espinoza	(536)654-7381x20731	1995-11-13 28 4	sous-chef	https://placekitten.com/364/377	bfisher	o(5EFhpYGL	Delete
5	Daniel	Williamson	1 463-334-7023	1984-07-25 39 10	sous-chef	https://picsum.photos/733/801	fkeith	&2SG7b\$2#6	Delete

After deleting the first cook, the page looks like this:

cook_i	d first_nam	e last_name	phone_number	birth_date age years_of_experience	position	cook_img	username	password	Actions
2	Charles	Williams	(614)855-7984	1972-05-02 52 9	second coo	k https://placekitten.com/8/806	alexandria64	L)1w7^BacU	Delete
3	Wesley	Frye	594-927-7981x286	1965-05-31 58 5	sous-chef	https://dummyimage.com/7x275	smonroe	_4ODsr1Hbg	Delete
4	Jeffery	Espinoza	(536)654-7381x20731	1995-11-13 28 4	sous-chef	https://placekitten.com/364/377	bfisher	o(5EFhpYGL	Delete
5	Daniel	Williamson	1 463-334-7023	1984-07-25 39 10	sous-chef	https://picsum.photos/733/801	fkeith	&2SG7b\$2#6	Delete

Backup - Restore:

The Backup and Restore functionalities do not have a front-end, however, they are executed as soon as the admin clicks on the button.