

CPSC 304 Project Cover Page

Milestone #: 3

Date: Oct 24, 2024

Group Number: 40

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

1. Brief Summary

The application allows users to plan meals, create grocery lists, and track their nutritional intake. Users can select from a database of recipes, customize their meal plans for a week, and generate corresponding grocery lists. The system will track recipes, ingredients, user preferences (like allergies and a preferred grocery store), and meal schedules.

2. Timeline and task breakdown/assignment:

Note:

- no query can be a subset of the other
- 2.2.1 - 2.2.6 queries may not be “hardcoded.” That is, the completed SQL query cannot be written or saved before application runtime. The user must be able to input or select specific value(s) (specified in each query description) to be used in the query.
- 2.2.7 onwards **can** be hardcoded

Task	Subtask	Task Description	Assignee	Due Date
2.1 Add tech stack to the repository.		<ul style="list-style-type: none">- Install TypeScript- Install Oracle Database Driver- Install Node.js- Install Node Package Manager (npm)- Install React- Potentially use the Next.js framework- Configure Oracle	Griffin	Oct 30
2.2 Queries	2.2.1 INSERT query	<ul style="list-style-type: none">- user specifies which values to insert- affects more than one relation (must occur on a table with a foreign key)- DDL in milestone 2 doesn't count towards this- Insert into user table, user prefs table when new user joins	Anna	Nov 6
	2.2.2 UPDATE	<ul style="list-style-type: none">- relation must have at least two non-PK attributes- update endDate or startDate of meal plan	Alex	Nov 6
	2.2.3 DELETE	<ul style="list-style-type: none">- cascade on delete- delete unwanted meal plan	Griffin	Nov 6
	2.2.4 Selection	<ul style="list-style-type: none">- select all meal plans with overallRating < or > some value (ie. “top rated” section)	Anna	Nov 6
	2.2.5 Projection	<ul style="list-style-type: none">- get all the start and end dates of a meal plan	Alex	Nov 6

	2.2.6 Join	<ul style="list-style-type: none"> - needs WHERE clause - join the recipe, ingredient, and nutritional info tables to find the names of recipes that WHERE calories are > 100 	Griffin	Nov 6
	2.2.7 Aggregation with GROUP BY	<ul style="list-style-type: none"> - must provide interface (button, dropdown, etc) for user to execute query - all users to view recipes with a min overallRating of 3, grouped by overallRating 	Anna	Nov 15
	2.2.8 Aggregation with HAVING	<ul style="list-style-type: none"> - must provide interface (button, dropdown, etc) for user to execute query 	Alex	Nov 15
	2.2.9 Nested aggregation with GROUP BY	<ul style="list-style-type: none"> - must provide interface (button, dropdown, etc) for user to execute query 	Griffin	Nov 15
	2.2.10 Division	<ul style="list-style-type: none"> - must provide interface (button, dropdown, etc) for user to execute query - allow user to find all recipes that contain the ingredient x 	Anna	Nov 15
2.2.1 GUI	Welcome Page / Create Account / Login	<ul style="list-style-type: none"> - Create account (user details and preferences) - Define subtype of the user (premium, standard, budget) 	Alex	Nov 20
	My Meal Plans	<ul style="list-style-type: none"> - view meal plans associated with your account - view grocery lists associated with the meal plan - view nutritional info of recipes - delete meal plans 	Griffin	Nov 20
	Create / Browse Meal Plans	<ul style="list-style-type: none"> - add meal plan to your account, or see meal plans ranked - select all meal plans with overallRating < or > some value - find meal plans with calories < or > some value (JOIN) - show all the start and end dates of a meal plan (Projection) - allow user to find all recipes that contain the ingredient x (DIVISION) 	Anna	Nov 20
	Meal Plan Details	<ul style="list-style-type: none"> - update endDate or startDate of specific meal plan (UPDATE) - allow users to query using aggregations (ex. Find all ingredients where calories are > 100) 	Alex	Nov 20
2.2.2 Sanitization		Ensure all user input fields are sanitized to avoid dangerous or invalid inputs	Anna	Nov 25

2.2.3 Error Handling		User notifications about errors, e.g. duplicate value, invalid input, etc.	Alex	Nov 25
2.2.6 User notification		User receives success or failure notification upon insert, update, delete action to verify action's effect	Griffin	Nov 25
2.2.7 Drop, Recreate, and Reload Tables		Groups should be able to use the .sql file submitted for Milestone 4 to drop, recreate, and reload tables.	Anna	Nov 25
M4	3.2.1 Cover Page	Usual cover page	Alex	Nov 29 10pm
M4	3.2.2 SQL script	<ul style="list-style-type: none"> - Script to first drop then re-create all tables and data in database - maximum of 1-2 sentences describing what that query does 	Everyone	Nov 25
M4	3.2.3 PDF File	Summary of whole project	Everyone	Nov 29
M5	Demo	Demonstrate project as outlined in Project Reference Guide	Everyone	Dec 2 9am