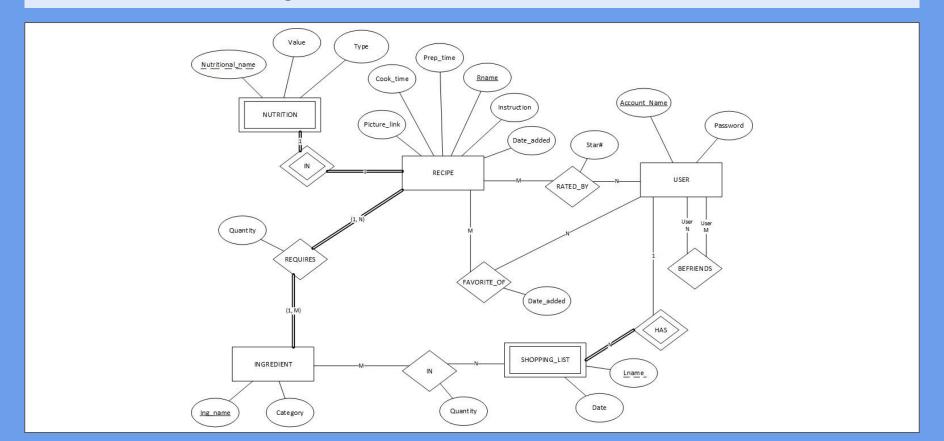




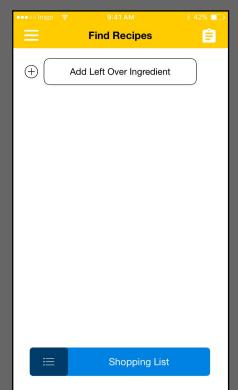
Database Design

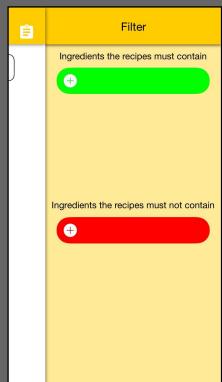


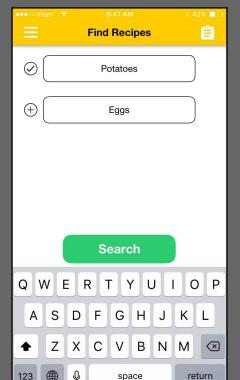
Normalization

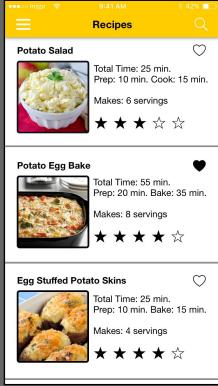
Table Name	Information Stored in the Table	Normal Form
FAVORITE	Stores user's favorite recipes, and the date the recipe was added.	BCNF
FRIEND	Stores the username of a friend.	BCNF
INGREDIENT	Stores ingredient name and ites respective category.	BCNF
NUTRITION	Stores nutritional values of the recipe and the respective measurement units.	BCNF
RATING	Stores the number of stars given to the recipe along with the user who gave the rating.	BCNF
RECIPE	Stores the name of the recipe, cook and preparation times, link to a picture, instructions and the date the recipe was added.	BCNF
RECIPE_CONTENT	Stores the recipe name, ingredients within the recipe and the quantity.	BCNF
SHOPPING_LIST	Stores the name of the list, date it was added, and the account name to whom it belongs.	BCNF
SHOPPING_LIST_CONTENT	Stores the name of the list, account name to whom it belongs, ingredient name and the quantity needed of the corresponding ingredient.	BCNF
USER	Stores the user's name and their password.	BCNF

Mobile Mockups

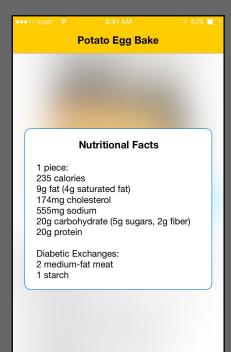


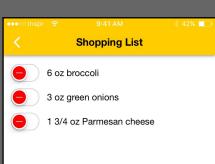


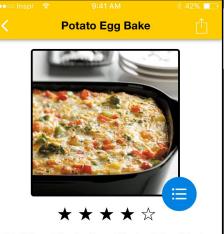




Mobile Mockups







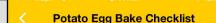
Total Time: 55 min. Prep: 20 min. Bake: 35 min. Makes: 8 servings

Ingredients

- 2 pounds Yukon Gold potatoes (about 6 medium), peeled and diced
- 1/2 cup water
- · 1 cup frozen chopped broccoli, thawed
- 6 green onions, thinly sliced
- 1 small sweet red pepper, chopped
- 6 large eggs
- 1/2 cup grated Parmesan cheese
- 1/2 cup fat-free milk
- · 2 tablespoons dried parsley flakes
- 1/2 teaspoon salt

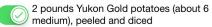
Directions

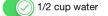
1. Place potatoes and water in a microwavesafe dish. Cover and microwave on high for seven minutes or until tender; drain.





Ingredients





1 cup frozen chopped broccoli, thawed

6 green onions, thinly sliced

1 small sweet red pepper, chopped

6 large eggs

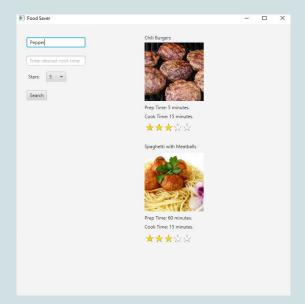
1/2 cup grated Parmesan cheese

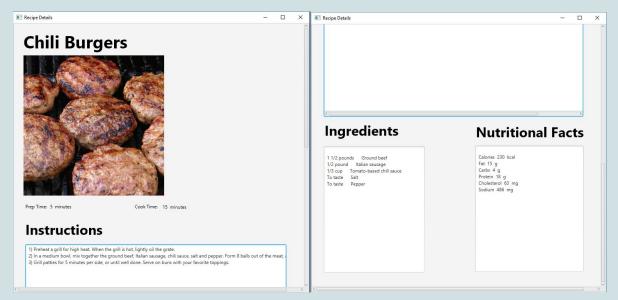
1/2 cup fat-free milk

2 tablespoons dried parsley flakes

1/2 teaspoon salt

Computer Graphical User Interface





Search Screen

Details Screen

Effort Spent Overall

- Designing the database.
- Testing the normal forms of our tables.
- Correcting the ER diagram and relational map with new updates.
- Writing and combining multiple SQL scripts from team members.
- Dealing with SQL syntax errors.
- Working on a JavaFX prototype GUI.
- Integrating local database with another application.
- Creating and providing deliverables.

What went right?

- Designing Entity-Relationship Diagram.
- Mapping Relational Data Model.
- Normalizing all of the functional dependencies.

What went wrong?

- Each of our team members populated the database with at least three recipes. Due to not utilizing a repository, when we merged all the data on one computer, we were experiencing various errors.
- Time-management failure to complete the JavaFX GUI.
- Unable to embed the database into an executable JavaFX jar file. Can only run using IntelliJ IDEA IDE.

What would be done different if done again?

- More functions for user.
- Use a repository for the SQL code.
- Embed database file in a GUI application.
- Provide search filters for queries in the GUI application