CSE110 Project Pitch

Team 25: Runtime Terror

Problem Statement & Motivation

- Individuals who are barely getting started with cooking need an application to manage, create, search/discover, and delete recipes, all while ensuring a user-friendly experience that will not deter them from interacting with the application.
- We want to build an application for people who are interested in starting out cooking that will not scare them off. Instead, we want our application to increase the productivity in their life based on the user friendliness we plan to incorporate and satisfy the user's needs (e.g., managing their recipes).
- Some of the inspiration was drawn by us.
- Most inspiration was drawn from Tasty and allrecipes.

We t___ __ _ __e *BuzzFeed Community* for their go-to easy dinner ideas — the ones perfect for busy nights where you don't want to spend hours in the kitchen, but still want something more substantial than, say, a PB&J. Here are some of their picks, along with several of our favorites! 🍊

1. Oven-Baked French Bread Pizzas

tasty.co

Pin

Pizza night is the best night — especially when everyone gets to build their dream slice. (Or three!)
Recipe here.

Tres Leches (Milk Cake)
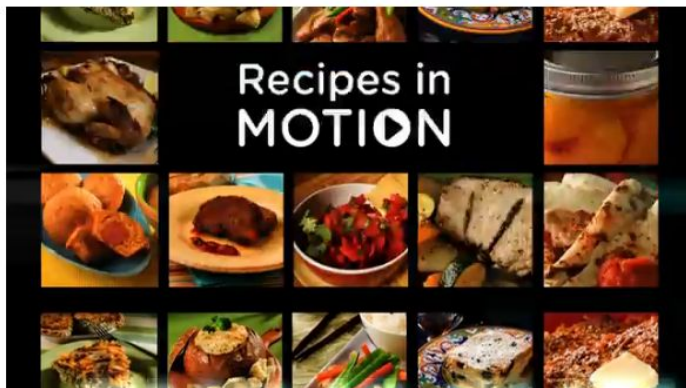
★★★★☆ ▾ **1,784 Ratings**   **1,895 Reviews**   **364 Photos**

"This cake is made with three layers: Cake, filling, and topping. There are 4 types of milk in the filling and topping (whole milk, condensed milk, evaporated milk, and heavy cream). This is an excellent cake for milk lovers!
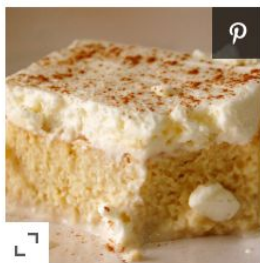
By **Stephanie Watts**

♥ Save

📌 Pin

🖨 Print

••• Share

Recipes in MOTION

Read the full recipe after the video.

📷

Servings: 24

Yield: 1 -9x13 inch cake

Nutrition Info

Step 1

Preheat oven to 350 degrees F (175 degrees C). Grease and flour one 9x13 inch baking pan.

Step 2

Sift flour and baking powder together and set aside.

Step 3

Cream butter or margarine and the 1 cup sugar together until fluffy. Add eggs and the 1/2 teaspoon vanilla extract; beat well.

Step 4

Add the flour mixture to the butter mixture 2 tablespoons at a time; mix until well blended. Pour batter into prepared pan.

Step 5

Bake at 350 degrees F (175 degrees C) for 30 minutes. Pierce cake several times with a fork.

Step 6

Combine the whole milk, condensed milk, and evaporated milk together. Pour over the top of the cooled cake.

Step 7

Whip whipping cream, the remaining 1 cup of the sugar, and the remaining 1 teaspoon vanilla together until thick. Spread over the top of cake. Be sure and keep cake refrigerated, enjoy!

User Personas

Mary Lee

Mary is an undergraduate studying computer science at San Jose State University. As someone who spends so much time working on programming assignments, she doesn't have a lot of time to spend cooking her meals. She wants to learn to cook healthy food that does not take a lot of time to make.

Age: 20

Marital status: Single

Children: N/A

Occupation: Student

Technology Familiarity: Very Familiar

Devices: Samsung Smartphone, Windows Laptop

Simon Smith

Simon just graduated from Sacramento State University. During college, he always ate at dining halls with friends and colleagues. Now that he is living on his own and making strides in his career, he wants to be able to at least cook basic meals for himself. He worries that he won't be able to cook good food for himself or his friends.

Age: 23

Marital status: Single

Children: N/A

Occupation: Event Planner

Technology Familiarity: Proficient

Devices: iPhone, Macbook

User Personas

Amelia Green

Amelia is a full time accountant at Budget Consultants. As a mother of three children young children, she wants to make meals that look appetizing and with fairly large portion sizes to feed the whole family. She has some experience as a cook but is not too proficient with technology, and as such she's easily frustrated by unintuitive UI where it makes it hard to search for the recipes that she wants.

Age: 33

Marital status: Married

Children: 3

Occupation: Accountant

Technology Familiarity: Less Familiar

Devices: iPhone, Windows Laptop, iPad

Josh Miller

Undergraduate full-time student who goes to the University of Texas. As he has a part-time job and goes to school at the same time, time management became difficult. He recognized that as he got busy it became difficult to have a regular meal every day and his health has deteriorated. He starts to take more interest in healthy eating, so he researches healthy food recipes frequently.

Age: 25

Marital status: Single

Children: N/A

Occupation: Server

Technology Familiarity: Very familiar

Devices: iPhone, Macbook, iPad

User Personas

Brad Chen

Brad just moved to the U.S. with his family, and he is conversationally fluent in English. Now that his parents are more busy, he wants to help cook good family recipes, but he hasn't learned how to cook before. He worries that he won't be able to prepare these dishes for his family.

Age: 15

Marital status: Single

Children: N/A

Occupation: High School Student
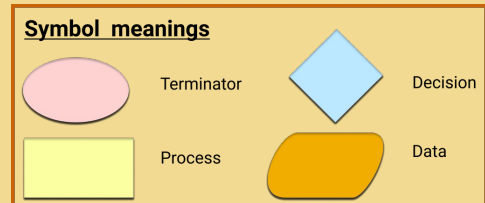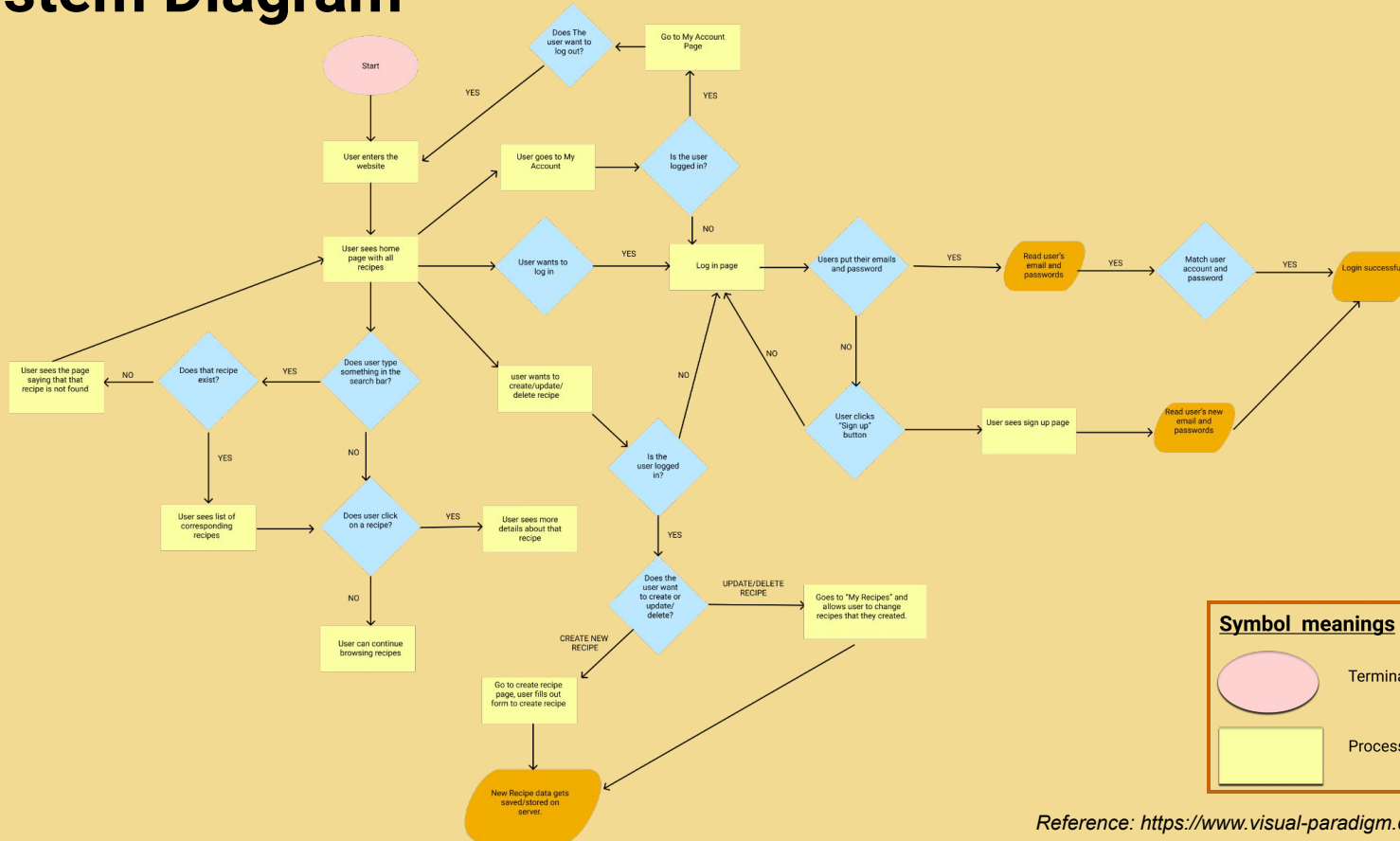
Technology Familiarity: Unfamiliar

Devices: Android Phone

Flowchart

1. User enters the website
2. User sees a home page (browse page), which has a bunch of recipes that other people have uploaded that they can browse.
3. On the home page there is a search bar where users can search for recipe by name.
4. At the top of the page, there should be tabs for home, create recipe, and my recipes, my account, and login
5. If user wanted to access CUD recipe functionality and is not logged in yet, ask them to log in (redirect to login page)
    a. If user has not created an account before, ask them to register
        i. Prompt user for email, username and password
        ii. Ask to enter password twice for confirmation
    b. If user has created an account before, ask them to login
        i. Prompt user for email/username and password
6. Once user is logged in, display home page (recipes,...) → ?navbar (tab) to create recipe, look up recipe, user's created recipes,....?
    a. If user wanted to create recipe
        i. If user has not logged in, go to 5.
        ii. Else, show form to fill in recipes/ingredients of the recipe
    b. If user wanted to update/delete recipe
        i. If user has not logged in, go to 5.
        ii. Else, redirect user to user's created recipes.
7. If user goes to My Account
    a. If not logged in yet, then go to 5.
    b. If they are logged in, the page should show the user's created recipes.
        i. There is also a log out button on the My Account page in case the user wants to log out.
8. If user click on one of the recipes, display recipe details
9. Leave page → If user decided to leave page, then leave. Else, back to point of origin. *(Not included in the flowchart)*

System Diagram

Reference: https://www.visual-paradigm.com/tutorials/flowchart-tutorial/

Start

Does The user want to log out?

Go to My Account Page

User enters the website

User goes to My Account

Is the user logged in?

User sees home page with all recipes

User wants to log in

Log in page

Users put their emails and password

Read user's email and passwords

Match user account and password

Login successful

User sees the page saying that that recipe is not found

Does that recipe exist?

Does user type something in the search bar?

user wants to create/update/delete recipe

Is the user logged in?

User clicks "Sign up" button

User sees sign up page

Read user's new email and passwords

User sees list of corresponding recipes

Does user click on a recipe?

User sees more details about that recipe

Does the user want to create or update/delete?

Goes to "My Recipes" and allows user to change recipes that they created.

User can continue browsing recipes

Go to create recipe page, user fills out form to create recipe

New Recipe data gets saved/stored on server.

YES / NO / UPDATE/DELETE RECIPE / CREATE NEW RECIPE

Symbol meanings

Terminator — Decision

Process — Data

Features

Major Feature 1: Searching and Browsing
- Accessing the homepage of the web app will bring up a list of recipes that the user can scroll through and browse.
- Users can also search for recipes by name using a search bar.

Risks:
- ❏ The user might be overwhelmed by a huge amount of information when scrolling through the home page.

Major Feature 2: Account Creation
- User's may browse and search for all all the available recipes for free without having to create an account.
- If the user wants to "bookmark" recipes, or create/update/delete recipes they need to create an account and log in.
- They will only be able to update and delete recipes that they have created. (i.e, the recipes tied to their account)

Risks:
- ❏ User security (how their log-in info is stored and processed)
- ❏ Potential back end infrastructure problems when storing user data.

Features

Major Feature 3: Recipe Creation
- If the user wants to create their own recipe, they need to create an account or log into an existing account.
- Users will be required to enter some information regarding their recipe, such as title, description, serving size, and recipe ingredients.

Risks:
- ❏ The user might not want to create an account to create a recipe.

Major Feature 4: Recipe Editing
- If the user wants to edit a recipe they have created before, they need to be logged into their existing account.
- User will be shown the form that they filled out when they created the recipe, and they will be allowed to edit any fields.
- None of the required fields will be allowed to be empty.

Risks:
- ❏ The user might not want to log into their account to edit a recipe.

Features

Major Feature 5: Recipe Deletion
- If the user wants to delete a recipe they have created before, they need to be logged into their existing account.
- User will be prompted with a confirmation message before deleting a recipe.

Risks:
- ❏ The user might not want to log into their account to delete a recipe.

Major Feature 6: Sorting recipes

- If a user wants to see all recipes in different orders, on the right top side, there is a button with several options: "High rating -> low rating" , "A -> Z" , "Z -> A" , "Low rating -> High rating", "Less time consume -> more time consume"....... etc

Risks:
- ❏ None.

Wireframes

Risks & Rabbit Holes

- Not establish the plan well enough which lead to indecisive decisions on features to implement
- Perfecting a feature to an extent that it diminishes productivity and fall off the rail of project blueprint
- Unspecified coding style convention, make source codes hard to follow among team members
- Miscommunication between front-end and back-end, as well as other teams/departments
- Putting all of the focus on one bug before putting together the overarching project
- Using "tags" idea to our benefit, rather than using it against us; don't want to overcomplicate it
- Deciding whether homepage should start off with only input options for user or more recipe suggestions, etc.
- User should not have to sign up or log in to read recipes, but must log in to create/update/delete recipes
- Deciding whether we require different tabs for each aspect of the app
- Considering what data are necessary to include in user's personal page (e.g name, user's created recipe, date of birth, etc.)
- Setting up boundaries or formatting our page template that can ensure users' created recipe match well with our target audience which are beginner or intermediate cook
- Displaying results/recipes that are most relevant to the search query
- Selecting a specific database (e.g. SQL vs NoSQL) to be implemented to store all users' created recipes

No-Go's

- Grocery list generation
- Meal planning
- Nutrient information/tracking
- Recipe exporting
- Social features (e.g., friends, chats)
- Personalized recommendations

Team Organization

Additional Functionalities

- Tag feature
- Recommendation
- Filter domain
- Browsing existing recipe
- Input new recipe
- Search for existing recipe
- Audio

Team Organization

Project Managers:
- Ruby
- Jieun

Communications and planning for the team / Taking part in all the roles

Testers:
- Pranav
- Justin

Build
Test script

Developers:
- Quoc
- Jerry
- Reyner
- Yoomin

debugging/writing code

Designers:
- Dorsa
- Ting-Yun

UI/UX

Wireframes

Minimum Viable Product

Recipe creation

Recipe edition

Recipe Deletion

CRUD

Database

Frontend
-CSS
-JavaScript
-HTML

User Account
-Person's page

Authentication/
Encryption

NodeJs /
Mongo Stack

Roadmap

	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Finals Week
Brainstorming	Team							
Work on System Diagram	Developers							
Create and work on wireframes	Designers							
Rabbit Holes / Risks		Developers						
Features		Team						
Mini Pitch			Team					
Pitch Presentation (actual)			Ruby, Jerry, Pranav, Quoc					
Decide on framework/software			Team					
Begin HiFi wireframes			Designers					
Create feature								
Delete Feature								
Login Feature								
Search/Browsing Feature								
Recipe Editing								
Sorting Recipes								
UI/UX Research								
UI/UX Implementation								
Pinning/Saving Recipes								

*revised as features change, features finished ahead of schedule/delayed, etc.

Team Organization

Additional Functionalities

- Tag feature
- Recommendation
- Filter domain
- Browsing existing recipe
- Input new recipe
- Search for existing recipe
- Audio

Project Managers:

- Ruby
- Jieun

Communications and planning for the team / Taking part in all the roles

Testers:

- Pranav
- Justin

Build
Test script

Developers:
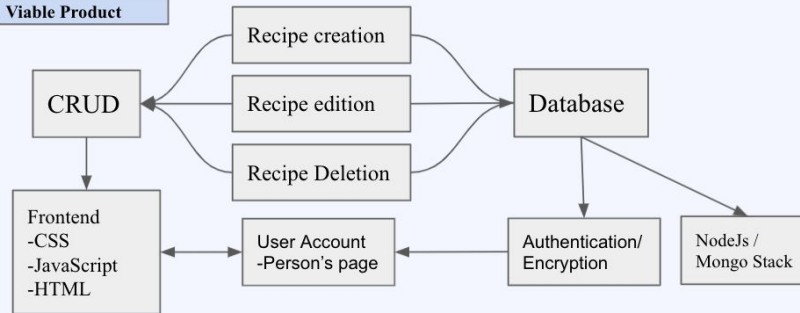
- Quoc
- Jerry
- Reyner
- Yoomin

debugging/writing code

Designers:

- Dorsa
- Ting-Yun

UI/UX

Wireframes

Minimum Viable Product

Recipe creation

Recipe edition

Recipe Deletion

CRUD

Database

Frontend
-CSS
-JavaScript
-HTML

User Account
-Person's page

Authentication/
Encryption

NodeJs /
Mongo Stack