

Software Architecture Design

Project: Donut Shop

Titouan Le Mao - Cédric Le Mercier

Use cases and mockups

1. Stakeholders of our application can connect to their personal space according to their role (Customer, Order supervisor, Cashier, Manager) - **Required**



Welcome to Donuts on Demand!
Please log in.

Name
John Doe

E-mail
example@mail.com

Password

LOG IN

NO ACCOUNT? SIGN UP

System detects role based on email

A red arrow points from the text "System detects role based on email" to the "E-mail" input field.

2. Customers of our application can create an account - **Required**



Welcome to Donuts on Demand!

[SIGN UP](#)

E-mail

Display Name

Password
 [X](#)

Confirm Password
 [X](#)

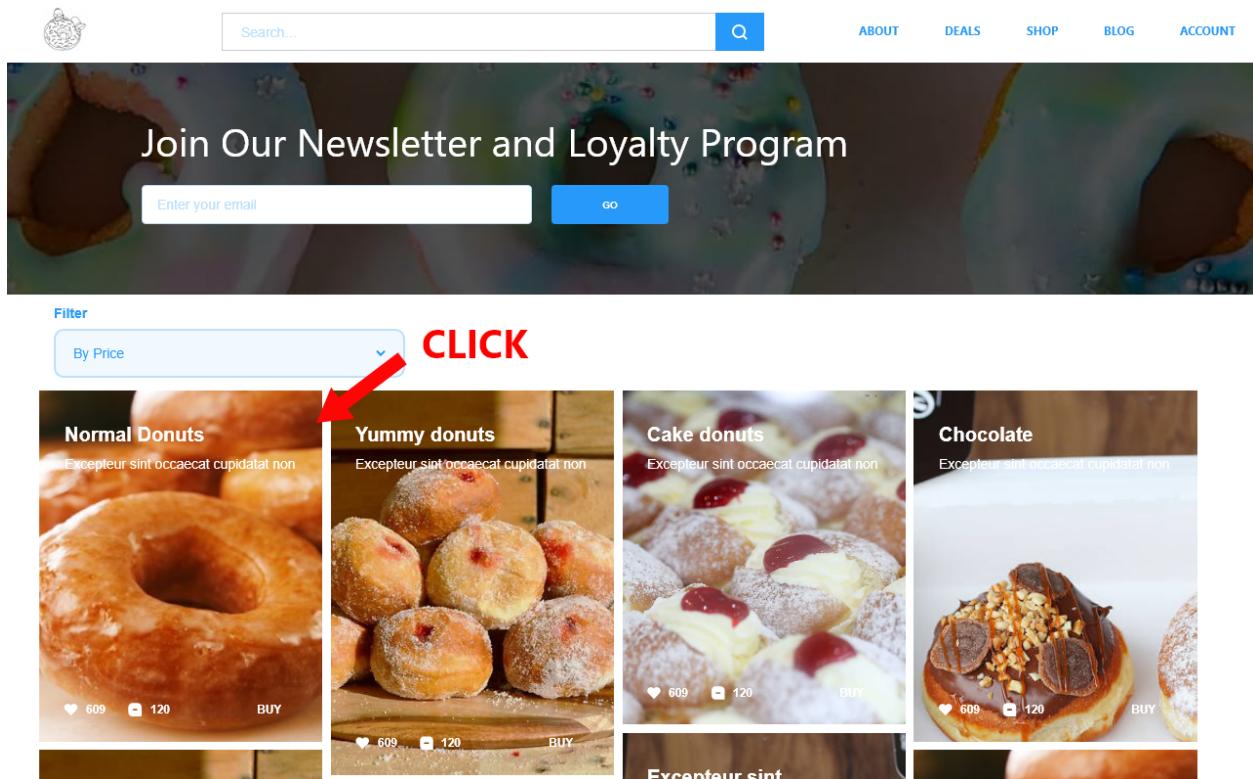
[CREATE MY ACCOUNT](#)

[HAVE AN ACCOUNT? SIGN IN](#)

Default signup option: customer

3. Customers can place an order for donuts based on those available in the store - **Required**

Screen 1: Website home view



Join Our Newsletter and Loyalty Program

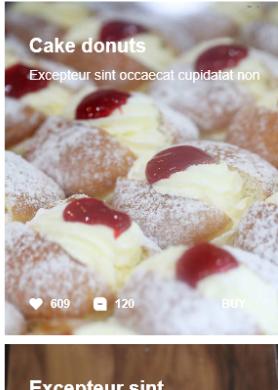
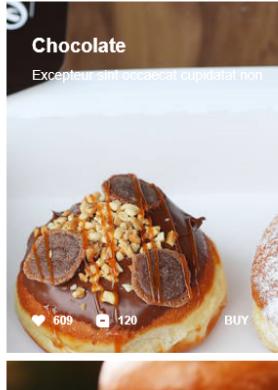
[GO](#)

CLICK

Filter [By Price](#)

- Normal Donuts**
Exepteur sint occaecat cupidatat non

BUY
- Yummy donuts**
Exepteur sint occaecat cupidatat non

BUY
- Cake donuts**
Exepteur sint occaecat cupidatat non

BUY
- Chocolate**
Exepteur sint occaecat cupidatat non

BUY

Screen 2: Single product order donuts screen

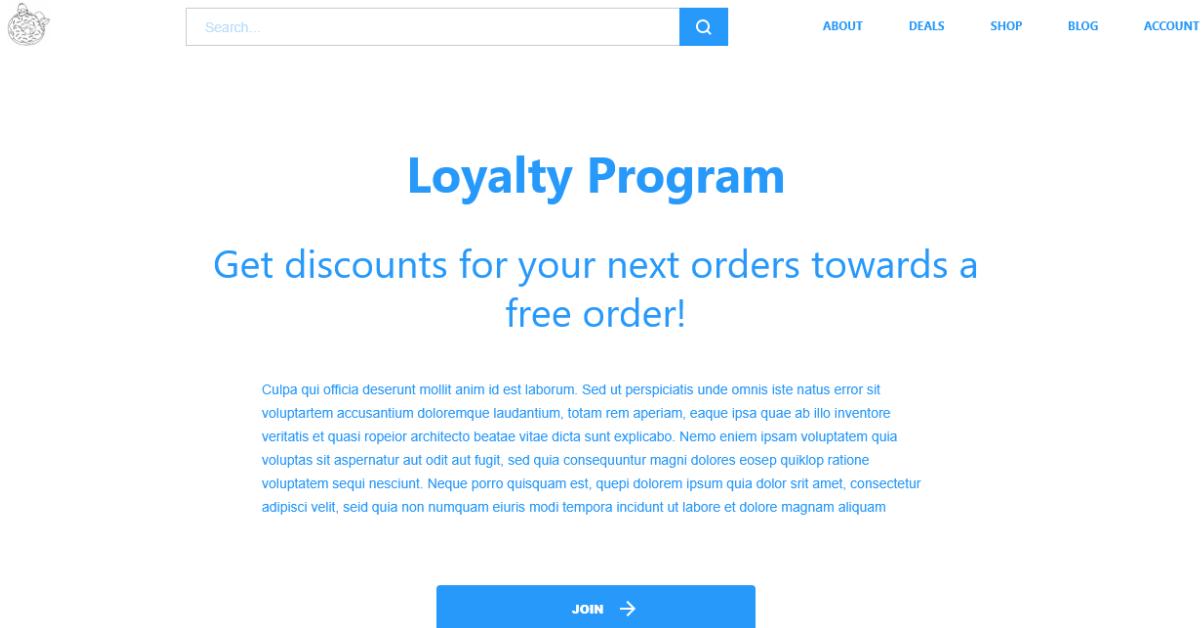
The screenshot shows a 'New Order' interface. On the left, there's a product card for 'Donuts 1' featuring a photo of several glazed donuts, a rating of 609 reviews and 120 likes, and a 'BUY' button. To the right, the main area has a title 'New Order' and a progress bar with three steps: ORDER, SHIPPING, and PAYMENT. Below this, a section for 'Normal Donut!' asks 'Choose flavour' (with 'The best kind!') and 'How many' (set to 0 THB). Further down, there are two sections: 'Pick up location' with a dropdown menu for 'Select Shop' containing options like 'Shop 1', 'Shop 2', and 'Shop 3', and 'Or select on the map' which shows a placeholder map.

4. Customers can subscribe to a loyalty program - Possible

Screen 1: Website home

The screenshot shows the website's homepage. At the top, there's a header with a search bar, navigation links for ABOUT, DEALS, SHOP, BLOG, and ACCOUNT, and a user icon. A prominent banner in the center says 'Join Our Newsletter and Loyalty Program' with a text input field containing 'exampleuser@gmail.com' and a blue 'GO' button. A large red arrow points from the text 'CLICK' to the 'GO' button. Below the banner, there's a 'Filter' dropdown set to 'By Price'. A grid of four donut categories is displayed: 'Normal Donuts' (glazed), 'Yummy donuts' (dusted with sugar), 'Cake donuts' (topped with cream and cherries), and 'Chocolate' (dipped in chocolate and nuts). Each category card includes a rating of 609 reviews and 120 likes, and a 'BUY' button.

Screen 2: Getting into the loyalty program



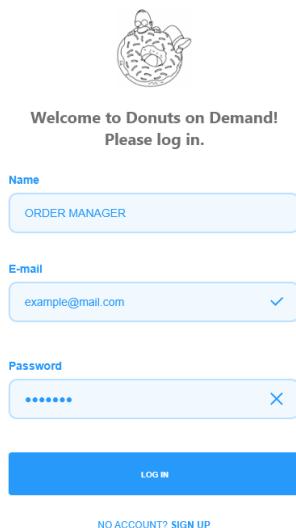
The screenshot shows a website header with a search bar, a magnifying glass icon, and navigation links for ABOUT, DEALS, SHOP, BLOG, and ACCOUNT. Below the header, there's a large blue title 'Loyalty Program' and a subtext 'Get discounts for your next orders towards a free order!'. A paragraph of placeholder Latin text follows. At the bottom is a blue 'JOIN →' button.

Culpa qui officia deserunt mollit anim id est laborum. Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritas et quasi ropeior architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eosip quiklop ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consecetur adipisci velit, sed quia non numquam eiusmod tempora incidunt ut labore et dolore magnam aliquam

JOIN →

5. Order picker can manage the order picking and indicate which ones are ready - **Required**

Screen 1: Log in



The screenshot shows a login form for 'Donuts on Demand'. It features a logo of a donut with a face, a welcome message 'Welcome to Donuts on Demand!', and a 'Please log in.' instruction. The form includes fields for 'Name' (containing 'ORDER MANAGER'), 'E-mail' (containing 'example@mail.com'), and 'Password' (containing '*****'). A blue 'LOG IN' button is at the bottom, and a link 'NO ACCOUNT? SIGN UP' is at the very bottom.

Welcome to Donuts on Demand!
Please log in.

Name
ORDER MANAGER

E-mail
example@mail.com

Password

LOG IN

NO ACCOUNT? SIGN UP

Screen 2: Manage Orders

The screenshot shows a user interface for managing orders. At the top right, it says "LOGGED IN AS: ORDER PICKER" next to a profile icon. On the left, there's a small logo of a person inside a donut. Below the header, there are two tabs: "PENDING ORDERS" (which is highlighted in blue) and "FINISHED ORDERS". Under "PENDING ORDERS", there's a sub-section titled "MANAGE ORDERS" with "PROFILE" and "LOG OUT" options. A table lists one pending order: "Order #1" (Yummy Donuts) containing "Strawberry" items, quantity "2", and status "Pending".

6. Cashier can validate the withdrawal of an order when a customer picks it up at the store - **Required**

Screen 1: Log in

The screenshot shows a log-in form. At the top, it says "Welcome to Donuts on Demand! Please log in." Below that are three input fields: "Name" (containing "CASHIER"), "E-mail" (containing "example@mail.com"), and "Password" (containing "*****"). At the bottom is a large blue "LOG IN" button.

NO ACCOUNT? SIGN UP

Screen 2: Manage Orders

The screenshot shows a user interface for managing orders. At the top right, it says "LOGGED IN AS: CASHIER" next to a profile icon. On the left, there's a small donut icon. Below that, a blue bar contains the text "PENDING ORDERS". To its right, another blue bar contains the text "FINISHED ORDERS". Under "PENDING ORDERS", there's a section titled "MANAGE ORDERS" with "PROFILE" and "LOG OUT" options. The main area shows two orders:

ID	Name	Amount	Status
Order #1	John Doe	1500	Pending ▾
Order #2	Customer	1500	READY ▾

A red arrow points to the "READY ▾" button for Order #2, and the text "Click for more details" is overlaid in red.

7. Manager can add/delete new donut recipes - Important

Login:

Welcome to Donuts on Demand!
Please log in.

Name

E-mail
 ▾

Password
 X

LOG IN

NO ACCOUNT? SIGN UP

Screen 1: Manage recipes

LOGGED IN AS: MANAGER

APPROVED RECIPES

SUBMITTED RECIPES

MANAGE RECIPES

TEAM	ID	Name	Amount	Status
STORE	Recipe #1	John Doe	1500	APPROVED
ANALYTICS	Recipe #2	John Doe	1500	APPROVED
PROFILE	Recipe #3	John Doe	1500	APPROVED

Click item

Screen 2: Recipe details

LOGGED IN AS: MANAGER

Recipe

MANAGE RECIPES

TEAM	Author: JOHN DOE	Date submitted: 26/02/2021
STORE		
ANALYTICS		
PROFILE		
LOG OUT		

Recipe Description

Culpa qui officia deserunt mollit anim id est laborum. Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritas et quasi repellor architecto beatae vitae dicta sunt explicabo. Nemo enim ipsum voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores

UNAPPROVE APPROVE

Approve Recipe

8. Manager can manage the opening hours of the store - Important (While logged in already)

Screen 1: Store details and hours

Access Store

MY BUSINESS

Location... **EDIT**

Opening times... **EDIT**

Monday: 9:00 AM - 8:00PM
 Tuesday: 9:00 AM - 8:00PM
 Wednesday: 9:00 AM - 8:00PM
 Thursday: 9:00 AM - 8:00PM
 Friday: 9:00 AM - 8:00PM
 Saturday: 9:00 AM - 8:00PM
 Sunday: Closed

Edit

Description

Culpa qui officia deserunt mollit anim id est laborum. Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi ropeior architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos per quiklo ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consecetur adipisci velit, seid quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat iope voluptatem.

Lore ipsum dolor sit amet, consectetur

PREVIEW **SAVE**

9. Manager can access the store's sales statistics - Possible

(Already logged in)

Screen 1: Get sales stats

Access sales

\$3,456.58
Sales for Wednesday June 7, 2017

15 total
Wholesale/Customer orders for today

Upcoming Orders [View All Orders](#)

Customer	Fulfillment Date + Time	Fulfillment Method	Balance
Bernard Lawrence 860-248-6595	06/11/2017 at 2:00 p.m.	Pickup	\$45.67
Harvey Brooks 245-037-0702	06/24/2017 at 3:10 p.m.	Pickup	\$17.03
Marvin Roberson 035-844-6297	06/26/2017 at 3:30 p.m.	Delivery	\$65.53
Melvin Schmidt 304-522-3658	06/24/2017 at 5:00 p.m.	Pickup	\$271.85
Hunter Duncan 364-090-0851	06/26/2017 at 2:00 p.m.	Pickup	\$122.98

10. Customers can create and order their own personal donuts recipe - Possible
- Screen 1: Log in screen**



Welcome to Donuts on Demand!
Please log in.

Name

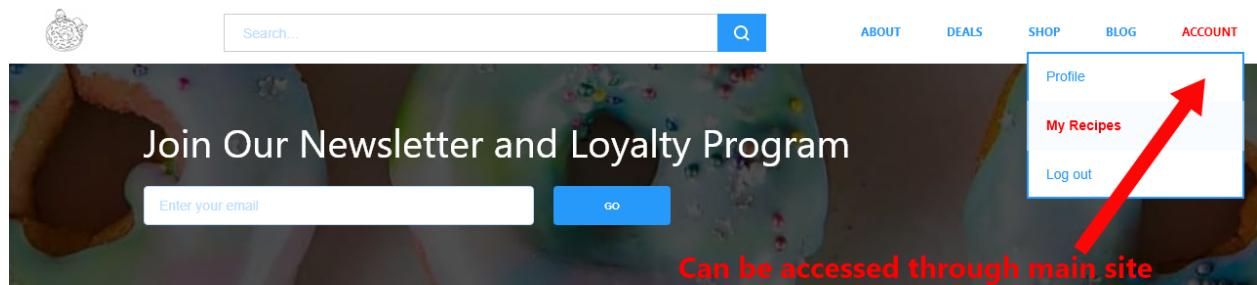
E-mail

Password

[LOG IN](#)

[NO ACCOUNT? SIGN UP](#)

Screen 2: Accessing account details and recipes from main site



Join Our Newsletter and Loyalty Program

Enter your email GO

Can be accessed through main site

Profile
My Recipes
Log out

Filter
By Price

Normal Donuts
Exepteur sint occaecat cupidatat non



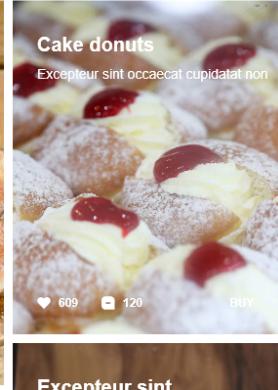
609 120 BUY

Yummy donuts
Exepteur sint occaecat cupidatat non



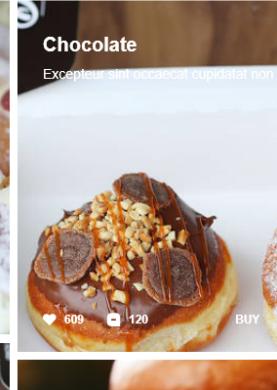
609 120 BUY

Cake donuts
Exepteur sint occaecat cupidatat non



609 120 BUY

Chocolate
Exepteur sint occaecat cupidatat non



609 120 BUY

Screen 3: Recipes list

The screenshot shows a user interface for managing recipes. At the top right, it says "LOGGED IN AS: JOHN DOE" next to a profile icon. On the left, there's a sidebar with "MY RECIPES", "PROFILE", and "LOG OUT". In the center, a blue button labeled "+ ADD RECIPE" has a red arrow pointing to it with the text "Click to add". Below this are three tabs: "PUBLISHED" (selected), "IN REVIEW", and "DRAFT". Two recipe cards are displayed: "Home made Donuts!" with a photo of colorful donuts and "Tasty Sweet Donuts" with a photo of cream-filled donuts. Each card has a like count (609), a comment count (120), and an "EDIT" button.

Screen 4: Adding a new recipe

The screenshot shows a form for adding a new recipe. At the top right, it says "LOGGED IN AS: JOHN DOE" next to a profile icon. On the left, there's a sidebar with "MY RECIPES", "PROFILE", and "LOG OUT". A large blue "SAVE" button is at the top. Below it is a photo of several glazed donuts. To the right, there's a section for "INGREDIENTS" with a "Add quantity" field and a placeholder "Add a new ingredient...". At the bottom, there's a "TITLE" field with the placeholder "Write a title" and a "DESCRIPTION" field containing sample text.