

Lazy Pizza Milestone #4 Requirements

This document describes the requirements for the first development milestone (Milestone #4) of the Lazy Pizza app.

The goal of this milestone is to implement the **Order Checkout screen**, which allows the user to select pickup time, review and edit order details, add recommended products, leave a comment, and confirm the order. In addition, the **Order Confirmation screen** is introduced.

The mockups define the app's appearance and behavior. Feel free to decide how you implement specific things (e.g., how you display a specific loading progress or how you specify error messages).

You can find the Lazy Pizza **mockups here**:

<https://www.figma.com/design/7Egltcq6KfY1Ct9H6uOitQ/Lazy-Pizza?node-id=0-1>

Milestone #4 Goal

- Build the **Order Checkout** screen with all functional blocks:
 - Pickup Time selection.
 - Editable Order Details.
 - Recommended Add-ons.
 - Comment field.
 - Order Summary and confirmation button.
- Build the **Order Confirmation screen** displaying final order data.

Icons

You may use Material Design icons where appropriate. If a suitable Material icon is not available, use the custom icons provided in the Figma mockups.

In Figma, any icon or image can be **exported** by selecting the element and clicking "Export" in the **right-hand panel**. In this panel, you can also choose the desired format (PNG, SVG, etc.).

Adaptive Layouts

The app must support two breakpoints:

- **Up to 840 dp** → mobile layout.
- **From 840 dp and above** → wide-screen layout.

Both versions must be implemented as shown in the mockups.

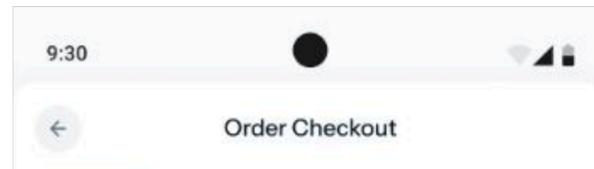
Technical Requirements



Order Checkout Screen

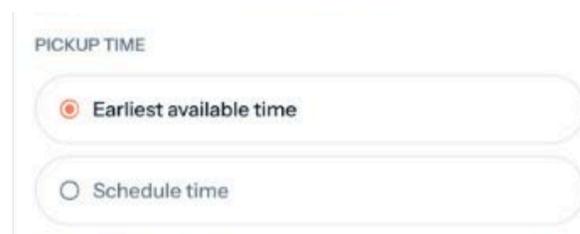
Top Bar

- Title: *Order Checkout* (centered).
- Left: Back arrow button.
- On tap → navigates back to the **Cart** screen.
- **Visual style:**
 - The entire Order Checkout screen is designed as a **rounded sheet** that starts below the system status bar.
 - Top bar area has **rounded top corners**.
 - A **soft shadow** is applied at the top edge, creating the effect of a floating sheet with rounded corners.



Block: Pickup Time

- Subtitle: *Pickup Time*.
- Two radio button options:

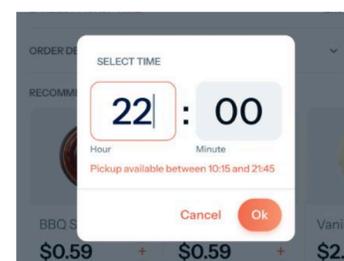


1. Earliest available time

- When selected, the app calculates pickup time = current time + 15 minutes.
- Below the options, a line is displayed: *Earliest Pickup Time: [HH:mm]*
Example: if the current time is 12:00, it shows *Earliest Pickup Time: 12:15*.

2. Schedule time

- When selected, the system opens a **DatePicker**:
 - Past days are disabled (greyed out).
 - Only today and future dates are available.
- After selecting a date, a **TimePicker** is shown:
 - User selects hours and minutes.

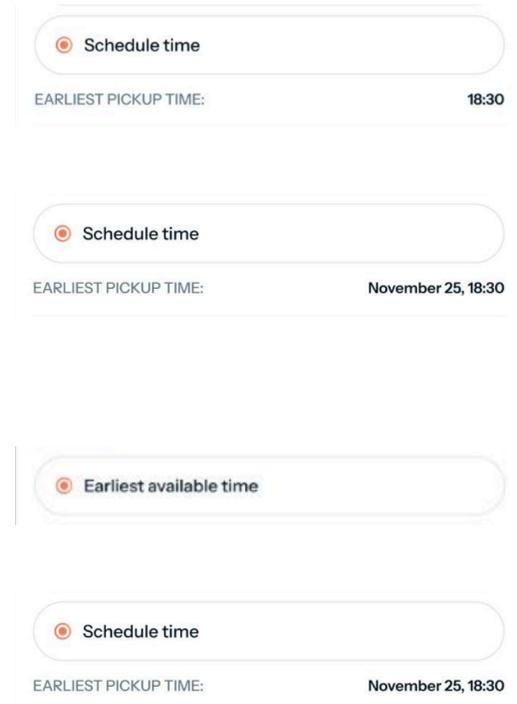


Validation Rules

- If chosen time is outside **10:15–21:45**:
 - Show an orange warning text below the TimePicker: *"Pickup available between 10:15 and 21:45"*.
- If chosen time is **earlier** than current time + 15 minutes (for today):
 - Show an orange warning text: *"Pickup is possible at least 15 minutes from the current time"*.

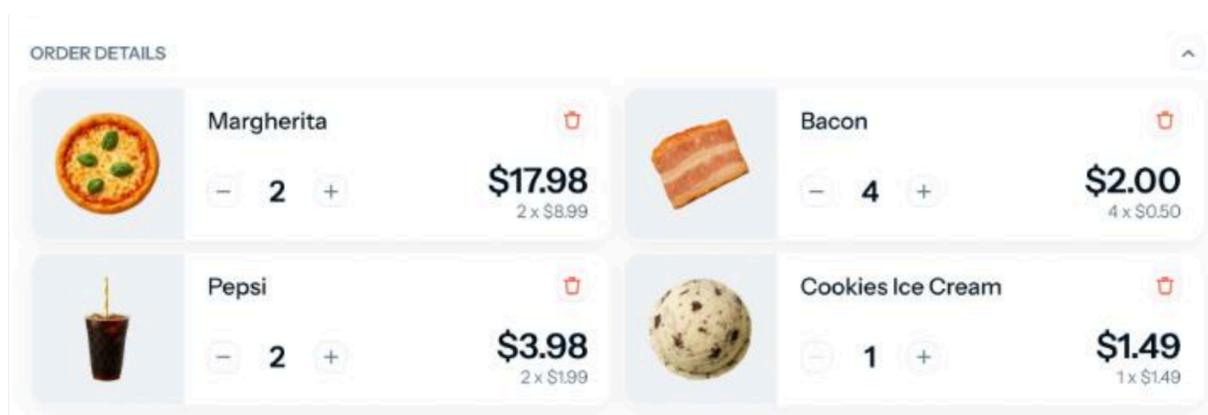
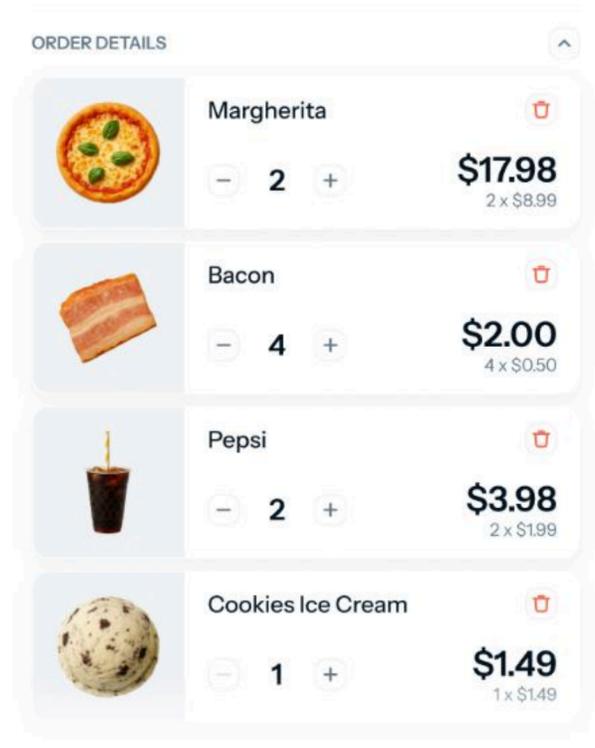
Dialog Button Behavior

- **OK:**
 - If time is valid → dialog closes.
 - Selected time is displayed in the Pickup Time section:
 - If date = today → show only time (e.g., 18:30).
 - If date = future day → show date + time (e.g., November 25, 18:30).
- **Cancel:**
 - Dialog closes.
 - If the date/time hasn't been confirmed before → fallback to Earliest available time.
 - If date/time was previously confirmed → keep Schedule time active.



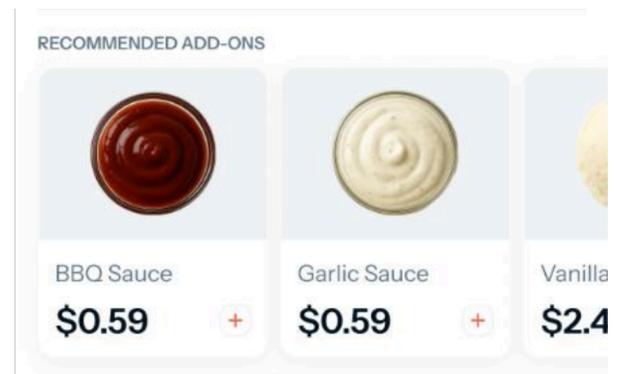
Block: Order Details

- Subtitle: *Order Details*.
- Collapsed by default.
- When expanded → shows a list of product cards:
 - Product image.
 - Product name.
 - Quantity selector (- 1 +).
 - Total product price.
 - Multiplication label below (e.g., 2 × \$8.99).
 - Trash icon to remove product.
- **Logic:**
 - Quantity changes update price dynamically.
 - Removing an item deletes the card from the list.
 - If the current **quantity = 1** → the minus (-) button is disabled (inactive).
- **Layout:**
 - up to 840 dp → list is shown in one column.
 - from 840 dp and above → list is displayed in two columns.



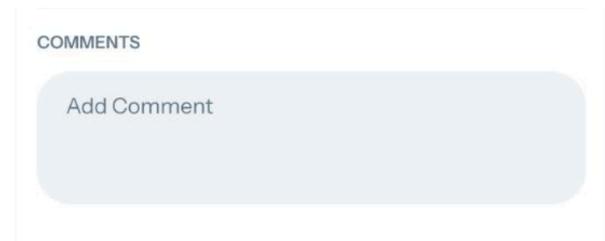
Block: Recommended Add-ons

- Horizontal scroll list of cards.
- Each card includes:
 - Product image.
 - Name.
 - Price.
 - “+” button to add quickly to the order.



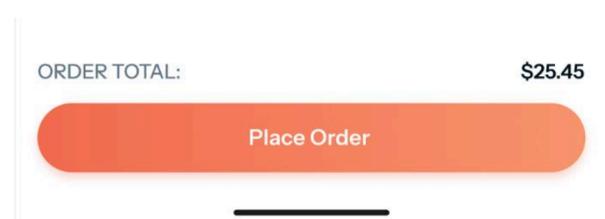
Block: Comments

- Text field with hint: *Add Comment*
- Minimum height: **92 dp**.
- Field automatically expands in height if the entered text exceeds the default space.



Order Summary and Button

- Displays total amount: *Total: \$XXX.XX*. Positioned above the button.
- Button sticky at the bottom of the screen.
- Text: *Place Order*.
- On tap → the Order Checkout screen switches to the Confirmation State.



✓ Order Confirmation State

Top Bar

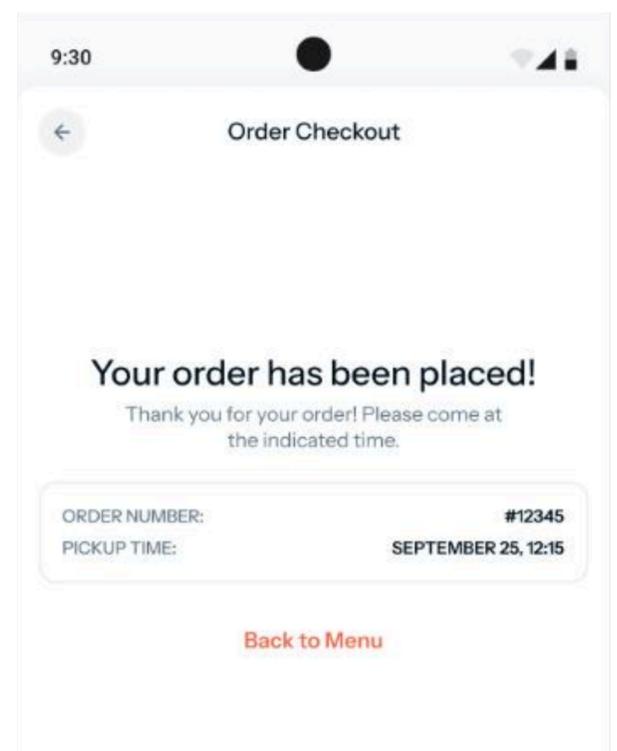
- Title: *Order Checkout* (centered).
- Left: Back arrow button.
- Tapping the Back button also returns the user to the **Main screen** (not back to Checkout).

Main Content

- Title: *Your order has been placed!*
- Subtitle: *Thank you for your order! Please come at the indicated time.*

Information Block

- Order Number: **12345** (simulates a real order number).
- Pickup Time: pulled directly from the selection made on the Checkout screen (either Earliest available time or Scheduled time).



Back to Menu Button

- Text: *Back to Menu*.
- On tap → redirects to the Main screen.

Order Persistence

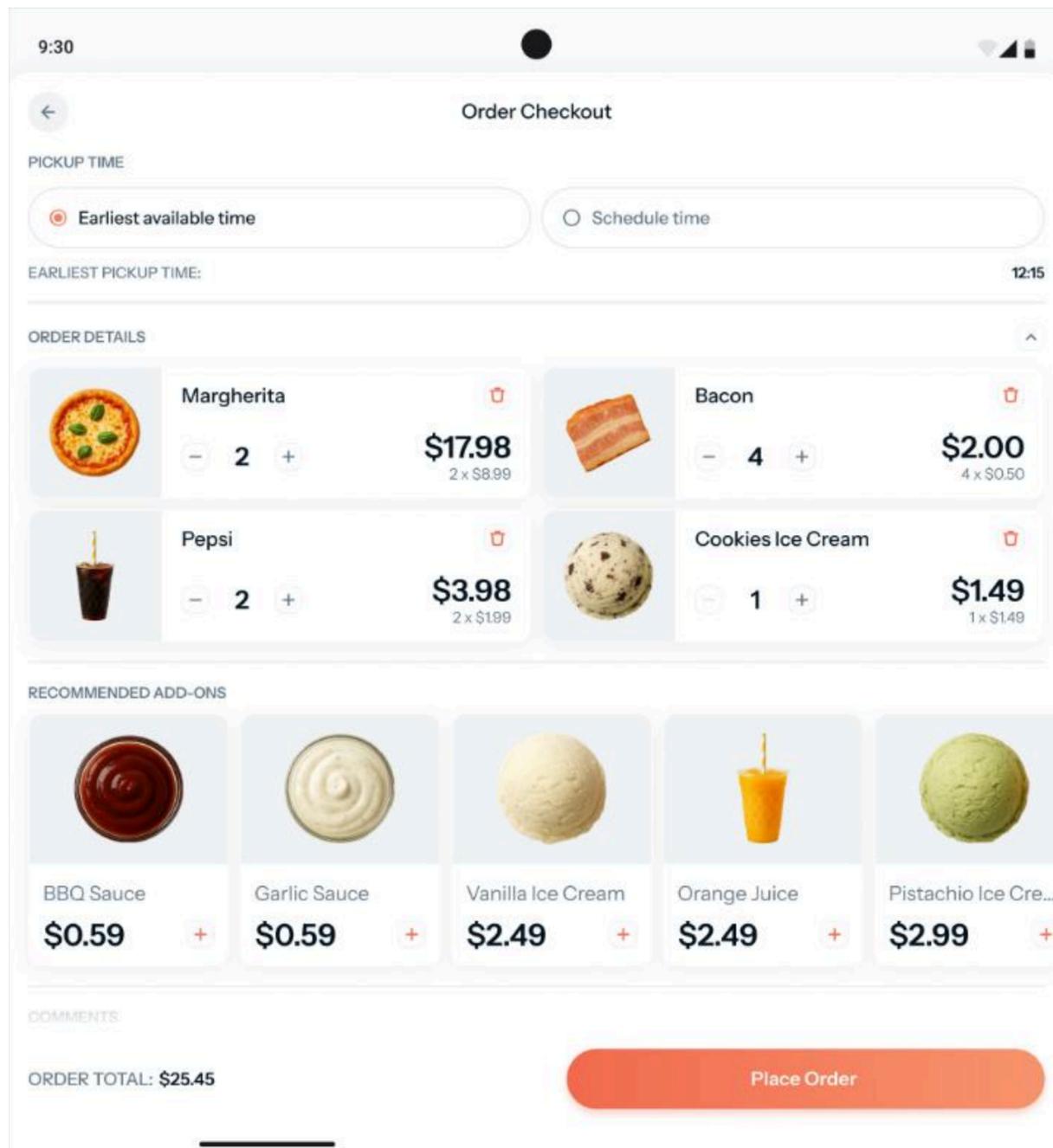
- When the user confirms an order (taps **Place Order**), the order data must be **saved remotely** in the orders collection of your chosen backend solution (e.g., Firestore or another database).
- Each order document should include:
 - **userId**: the unique identifier of the currently signed-in user.
 - **orderNumber**: a short numeric identifier displayed in the format Order #12347.
 - **pickupTime**: based on user selection.
 - **items**: list of ordered products (including add-ons).
 - **totalAmount**: final order sum.
 - **status**: *In Progress*.
 - **timestamp**: creation time.
- The **order number** displayed on the confirmation screen must follow the format Order #12347.
- After returning to the main menu, the **Order History** screen must display all saved orders for the signed-in user.

 For this project, generate the number automatically based on the current timestamp (for example, by taking the last 5 digits of `System.currentTimeMillis()`).

This approach ensures a unique and realistic identifier for each order in training scenarios, without requiring a backend sequence generator. The generated number should be saved together with the order data and displayed consistently across the app (e.g., in the Order Confirmation and Order History screens).

Screen Adaptation

- **Up to 840 dp** → mobile layout (vertical stacking of elements).
- **From 840 dp and above**:
 - Authentication screen elements are centered with clean spacing.
 - **Order Details**: product list displayed in two columns.
 - **Order Total and Button**: at the bottom, the order total is shown on the left, while the Place Order button is aligned to the right on the same horizontal line.



Useful Links for This Challenge

- [Create a Splash Screen](#)
- [UX With Material3](#)
- [Full Guide to Material3 Theming](#)
- [The Full Jetpack Compose Responsive UI Crash Course](#)
- [How to Create a Lazy Column With Categories](#)
- [How to Save & Restore the Scroll Position of a LazyColumn Persistently](#)
- [Stateful vs. Stateless Composables](#)
- [State Hoisting in Compose](#)
- [Managing State in Jetpack Compose \(Codelab\)](#)
- [Add shadows in Compose](#)

Application Items List

Pizza Menu

- **Margherita** — \$8.99
Ingredients: Tomato sauce, mozzarella, fresh basil, olive oil
- **Pepperoni** — \$9.99
Ingredients: Tomato sauce, mozzarella, pepperoni
- **Hawaiian** — \$10.49
Ingredients: Tomato sauce, mozzarella, ham, pineapple
- **BBQ Chicken** — \$11.49
Ingredients: BBQ sauce, mozzarella, grilled chicken, onion, corn
- **Four Cheese** — \$11.99
Ingredients: Mozzarella, gorgonzola, parmesan, ricotta
- **Veggie Delight** — \$9.79
Ingredients: Tomato sauce, mozzarella, mushrooms, olives, bell pepper, onion, corn
- **Meat Lovers** — \$12.49
Ingredients: Tomato sauce, mozzarella, pepperoni, ham, bacon, sausage
- **Spicy Inferno** — \$11.29
Ingredients: Tomato sauce, mozzarella, spicy salami, jalapeños, red chili pepper, garlic
- **Seafood Special** — \$13.99
Ingredients: Tomato sauce, mozzarella, shrimp, mussels, squid, parsley
- **Truffle Mushroom** — \$12.99
Ingredients: Cream sauce, mozzarella, mushrooms, truffle oil, parmesan

Drinks

1. Mineral Water — \$1.49
2. 7-Up — \$1.89
3. Pepsi — \$1.99
4. Orange Juice — \$2.49
5. Apple Juice — \$2.29
6. Iced Tea (Lemon) — \$2.19

Sauces

1. Garlic Sauce — \$0.59
2. BBQ Sauce — \$0.59
3. Cheese Sauce — \$0.89
4. Spicy Chili Sauce — \$0.59

Ice Cream

1. Vanilla Ice Cream — \$2.49
2. Chocolate Ice Cream — \$2.49
3. Strawberry Ice Cream — \$2.49
4. Cookies Ice Cream — \$2.79
5. Pistachio Ice Cream — \$2.99
6. Mango Sorbet — \$2.69

Extra Toppings

- Bacon — \$1.00
- Extra Cheese — \$1.00
- Corn — \$0.50
- Tomato — \$0.50
- Olives — \$0.50
- Pepperoni — \$1.00
- Mushrooms — \$0.50
- Basil — \$0.50
- Pineapple — \$1.00
- Onion — \$0.50
- Chili Peppers — \$0.50
- Spinach — \$0.50