

# DELI-cious Capstone Planning Worksheet

## Step 1: Understand the Problem

**Instructions:** In your own words, summarize what this program needs to do.

- What kind of business is this for?
  - What are customers/employees supposed to do with the application?
  - What should happen after the customer finishes their order?
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## Step 2: Identify Requirements

**Instructions:** Make a list of broad requirements based on the project description. Look for the **key features** the application must support. Use bullet points.

*Tip:* Scan the project text and highlight all the **nouns** and **verbs**—this can help identify possible classes and actions.

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## Step 3: User Flow (What Happens First, Next, Then?)

**Instructions:** Imagine you're a customer or employee using this app from start to finish. Write a **numbered list** of the steps a typical user would take.

**Example (do not copy):**

1. Start the program
  2. Choose to place an order
  3. Add first sandwich
  4. ...
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## Step 4: Design Test Cases

**Instructions:** Write down at least 5 scenarios where you would want to test your program. Include:

- A sample action (e.g., customer adds 2 sandwiches, both toasted, one with extra cheese)

- What you expect to happen (e.g., order shows correct total, receipt saves to correct location)
- Remember, we like using actual numbers and doing real calculations

*Note:* These tests will help guide your coding later.

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### **Step 5: Brainstorm Potential Classes**

**Instructions:** Based on what the program needs to do and the nouns you found earlier, list at least 4-6 possible classes you may need.

You are NOT writing code—just brainstorming.

Once you have a list, check in with your instructor to get feedback

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### **Step 6: Define Responsibilities**

**Instructions:** For each class you listed above, write what that class might be responsible for.

Think about:

- What does this class *know*?
- What does this class *do*?

**Class Name   What it knows (data)   What it does (behavior/methods)**

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### **Step 7: Relationships Between Classes**

**Instructions:** Now think about how the classes relate to each other.

- Are there classes that contain or use other classes?
- Are there 1-to-many or has-a relationships?
- Inheritance? Interfaces? Abstract classes?

**Write your thoughts or draw lines between classes on paper.** You'll use this in the next step.

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### **Step 8: Create a UML Diagram (Draft)**

**Instructions:** Using your brainstormed classes, draw a UML diagram showing:

- Class names
- Attributes (variables)
- Methods (just the important ones)
- Relationships (e.g., arrows for associations or dependencies)

Don't worry about being perfect—this is a draft to help guide your design. Present your UML diagram to your instructor for final approval. You may change it while you're doing your Capstone but at least you have a start.