Restaurant Order App (technical test)

We are expecting to evaluate follow criteria:

1. Object Oriented Design
2. Respect SOLID Principles
3. Readability
4. Maintainability
5. Testability

Frontend Requirements:

1. Create SPA website using any JavaScript framework (e.g. Angular, ReactJs etc.)
2. Main Page must have 4 components : input textbox, output textbox, button(send order) and grid
3. The grid must keep history of inputs and outputs that user had requested before
4. Website can(optional) have unit tests
5. Push your solution in a GitHub repository, and send us a link when done

Backend Requirements:

1. Create this solution as a web API application
2. Solution must have unit tests
3. Push your solution in a GitHub repository, and send us a link when done

Rules:

1. You must enter time of day as "morning" or "night"
2. You must enter a comma delimited list of dish types with at least one selection
3. The output must print food in the following order: entrée, side, drink, dessert
4. There is no dessert for morning meals
5. Input is not case sensitive
6. If invalid selection is encountered, display valid selections up to the error, then print error
7. In the morning, you can order multiple cups of coffee
8. At night, you can have multiple orders of potatoes
9. Except for the above rules, you can only order 1 of each dish type

Dishes for Each time of day

Dish Type	morning	night
1 (entrée)	eggs	steak
2 (side)	Toast	potato
3 (drink)	coffee	wine
4 (dessert)	*Not Applicable*	cake

Sample Input and Output:

Input: morning, 1, 2, 3   Output: eggs, toast, coffee

Input: morning, 2, 1, 3   Output: eggs, toast, coffee

Input: morning, 1, 2, 3, 4   Output: eggs, toast, coffee, error

Input: morning, 1, 2, 3, 3, 3   Output: eggs, toast, coffee(x3)

Input: night, 1, 2, 3, 4   Output: steak, potato, wine, cake

Input: night, 1, 2, 2, 4   Output steak, potato(x2), cake

Input: night, 1, 2, 3, 5   Output: steak, potato, wine, error

Input: night, 1, 1, 2, 3, 5   Output: steak, error