



PROBLEM STATEMENT

Angular Assessment

Note: On clicking Execute button for the first time, In case you see any message like Compilation Error in Project/Result File Not Found , Click on 'Execute' again

Problem Description:

Floating Restaurant is a Front end (Angular) application which connects with Backend REST API service to automate the process of booking a buffet for their customers and view booking details.

Details of Backend REST API service (Implemented)-

- **Booking a Buffet** – This service books a buffet by sending POST request at */buffetBookings*. The customer gets assigned a booking Id. The booking JSON is sent in the request body.

"Buffet booked with booking 1001"

- In case a buffet is already booked for the given date, below message is sent-

"Buffet is already booked on this date!"

- **Returning details of a booking through id:** This service returns a JSON response containing details a particular booking id by sending GET request at */buffetBookings/<id>*

Note: The value of '*bookedOn*' field is sent in the format - "*2018-10-09*" from the web service.

- In case booking id is not available, following response is sent

"Reservation for booking Id: 10012 is not found!"

Details of Floating Restaurant Front end application

- When “**http://localhost:4200**” is entered in browser following form should be displayed:

- Populate the Buffet Name field with the following values.

Option	Value	Disabled
Select a buffet	<Empty string i.e ">	Yes
South Indian Festival Special	SouthIndianFestivalSpecial	No
North Indian Festival Special	NorthIndianFestivalSpecial	No
Chinese Special	ChineseSpecial	No

- Add validations for form controls as below. Use field names as mentioned below and use validations inside a component only.

Field name	Validations Required
buffetName	Required validation
emailId	Required validation, Basic Email validation
plateCount	Required validation, Minimum 1
bookedOn	Required validation

4. When **Book a buffet** is clicked Buffet Reservation Page should be displayed as below:

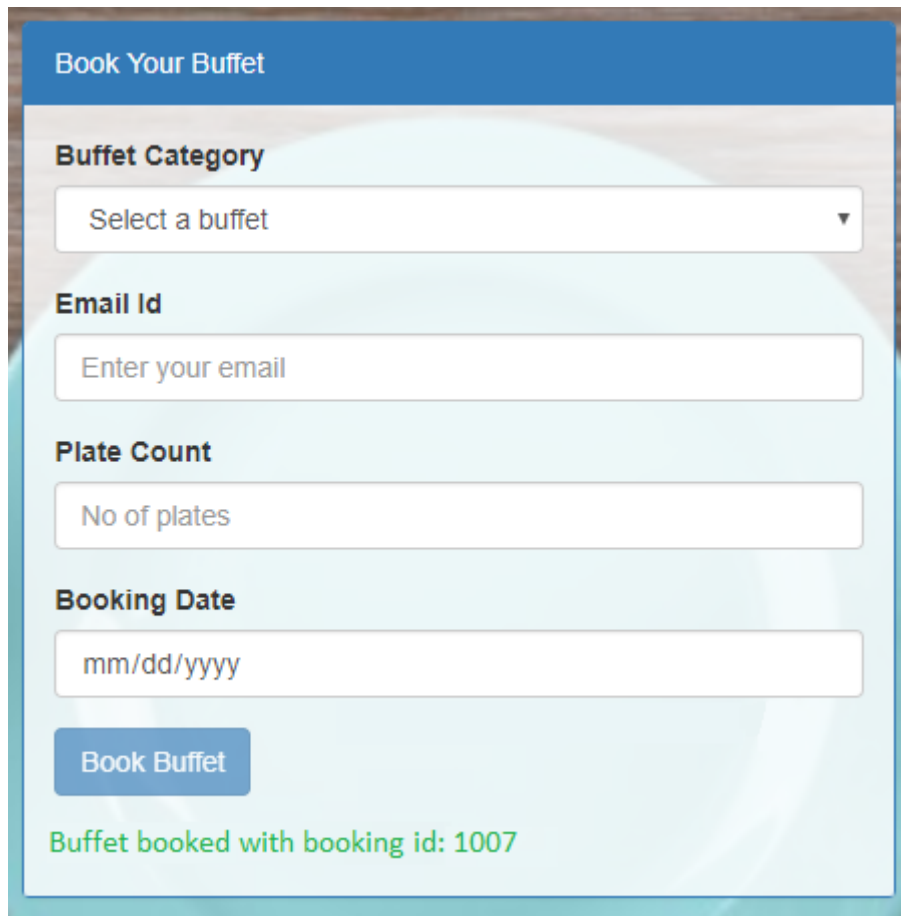
The screenshot shows a web application with a blue header containing the text "Floating Restaurant" and two navigation links: "Book Buffet" and "View Bookings". The main content area features a background image of a wooden table with a light blue plate in the center. Two hands are visible, one holding a fork and the other a knife. Overlaid on this image is a white form titled "Book Your Buffet". The form contains the following fields: a dropdown menu for "Buffet Category" with the placeholder text "Select a buffet", a text input for "Email Id" with the placeholder text "Enter your email", a text input for "Plate Count" with the placeholder text "No of plates", and a text input for "Booking Date" with the placeholder text "mm/dd/yyyy". A blue button labeled "Book Buffet" is positioned at the bottom of the form.

5. Validation messages should be rendered as below:

This screenshot shows the same "Book Your Buffet" form as in the previous image, but with validation messages displayed in red text below the input fields. The "Email Id" field has the message "Enter the valid email id". The "Plate Count" field has the message "Plate count should be more then 0". The "Booking Date" field has the message "Enter the valid booked on field". The "Book Buffet" button remains visible at the bottom of the form.

Note: Button should remain disabled until the form becomes valid

6. On successful execution, the success message should be displayed as shown below:



Book Your Buffet

Buffet Category
Select a buffet ▼

Email Id
Enter your email

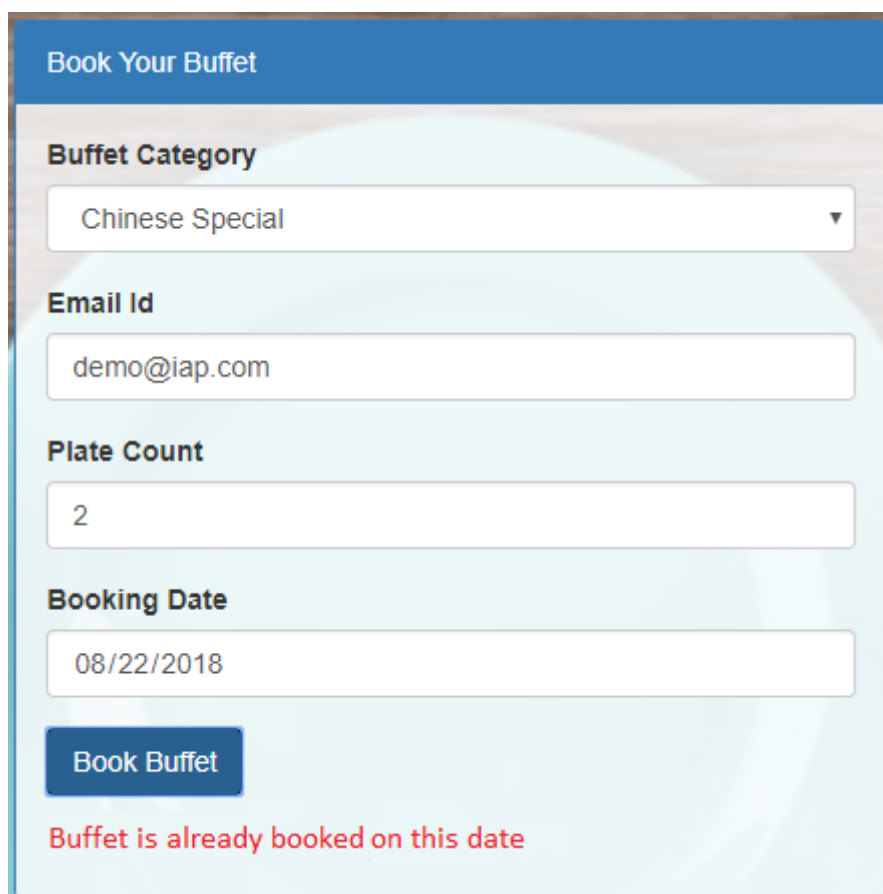
Plate Count
No of plates

Booking Date
mm/dd/yyyy

Book Buffet

Buffet booked with booking id: 1007

7. In case if you are trying to book the buffet for which it is already booked, the error message should be displayed as shown below:



Book Your Buffet

Buffet Category
Chinese Special ▼

Email Id
demo@iap.com

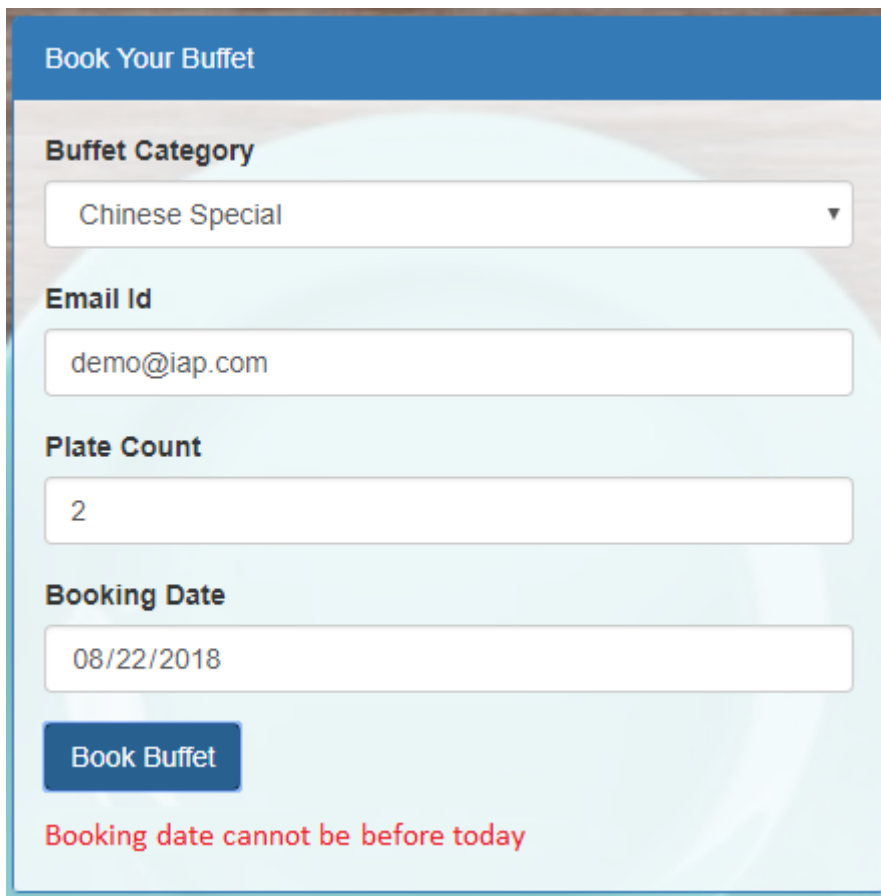
Plate Count
2

Booking Date
08/22/2018

Book Buffet

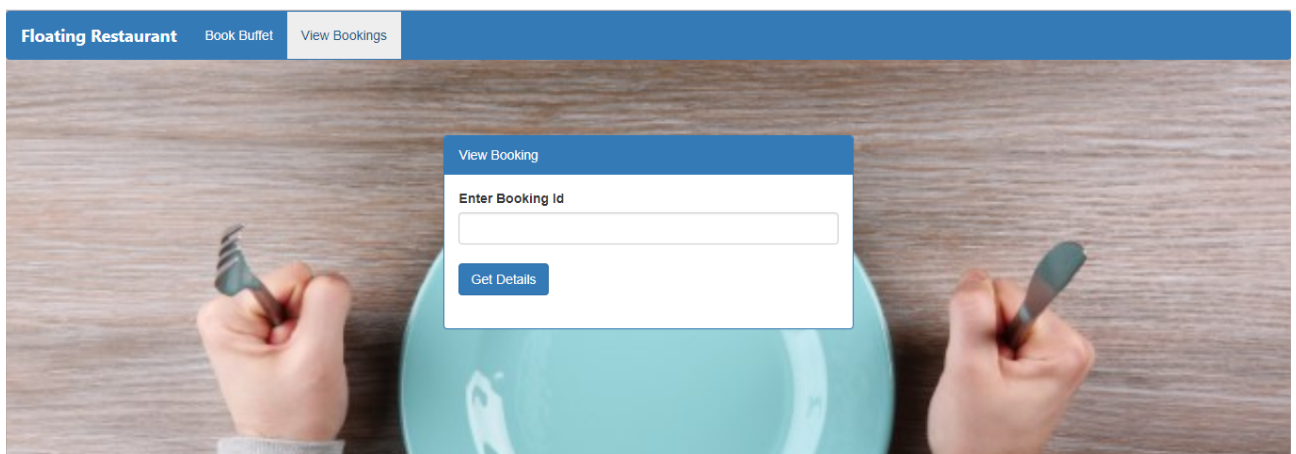
Buffet is already booked on this date

8. In case of user entering the date which is past date, the error message should be displayed as shown below:



The screenshot shows a web form titled "Book Your Buffet". It contains the following fields: "Buffet Category" (a dropdown menu with "Chinese Special" selected), "Email Id" (a text input field with "demo@iap.com"), "Plate Count" (a text input field with "2"), and "Booking Date" (a text input field with "08/22/2018"). Below the "Booking Date" field is a blue button labeled "Book Buffet". At the bottom of the form, a red error message reads "Booking date cannot be before today".

9. When **View Bookings** is clicked view should be displayed as shown below:



The screenshot shows a web application with a navigation bar containing "Floating Restaurant", "Book Buffet", and "View Bookings". The "View Bookings" tab is active. A modal form titled "View Booking" is displayed in the center. It contains a text input field labeled "Enter Booking Id" and a blue button labeled "Get Details". The background of the page shows a wooden table with a blue plate and two hands holding forks.

Note: DO NOT USE a form element to create the above component

10. When user enters booking id and clicks on get details, details of that particular booking id should be shown as below:

The screenshot shows a web form titled "View Booking". It has a header bar with the title. Below the header, there is a section "Enter Booking Id" with a text input field containing "1001" and a blue "Get Details" button. Below the button is a table with booking details.

Booking date	Meal type	Plate Count
October 21, 2018	SouthIndianSpcl	5

11. Transform the

- **Booking date field** - Render the date value in the format shown above.
- **Plate count field** - If the **Plate Count** is greater than 5, it should be transformed as "more than 5 plates" else it should be "5 or less plates"

3. If entered booking Id doesn't exist, it should display error as per given screenshot

The screenshot shows the same "View Booking" form, but with the text input field containing "1004". Below the "Get Details" button, there is a red error message: "Reservation for booking Id: 1005 is not found!".

4. If the correct booking Id is mentioned and if the "Get Details" button is clicked, then the error message (if any) must disappear and the appropriate details must be rendered.

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