SYST24444 Assignment #4

Assignment #4 (10%)

This assignment will be used to test your knowledge of Angular, Angular Material, Routing, Forms, Services and JSON retrieval.

- Create an angular app called bookingApp
- Add angular material to this app
- Create a header component
    - Add a H3 with the text "Movie Booking System - yourName yourStudentId"
    - yourName and yourStudentId should be based on a Student interface
    - Add a background colour and change the colour of H3 using attribute binding
- Create a booking component
- Create a confirmation component
- Create a movie service
- Add the header component and a router outlet to app.component.html
- Define 3 routes with the following paths:
    - Booking (BookingComponent)
    - Confirmation (ConfirmationComponent
    - Empty route to BookingComponent

Create a website for online movie ticket booking.

Following fields are required for booking the tickets.

- Name of the city a person lives in (**dropdown**).
- Location of the movie theatre in the particular city (**radio butto**n).
- Display the list of movies that are currently running in the movie theatre (**dropdown**).
- Date when the user wants to book the movie.
- Number of tickets the user wants to book with an option of increment or decrement. Make sure that the user doesn't have negative value,
    - if it has negative value, then you should change the background colour of Number of Tickets and total Amount to red.
- List of show Times.
- First name and last name of the user
- Email address and Gender
- Age. (Don't allow the user under 20 to book the ticket).
- Total Amount to be paid box: showing the amount to be paid.
- Submit button.
    - On button press it should go to the Confirmation page showing

- ○ "Transaction successful" and displaying all the details submitted in the form such as
  - ■ First Name
  - ■ Last Name,
  - ■ City,
  - ■ Age
  - ■ Email
  - ■ Total Amount
- ○ The Confirmation page should also have a back button to go back to the previous page.

Please make sure if not all elements have been filled, on button click of submit it should

Notes

- Create a method in the movie service to store the booking form information in memory using interface
- Create a method in the movie service to return the booking form information so that it can be displayed in the confirmation page
- Use the angular material components such as input, select, datepicker,radiobutton
- Use the validators on the input and dropdowns

Grading View:

- I will be using the Chrome Toggle Device Bar for Galaxy S20 Ultra in Landscape mode when viewing your site
- REMEMBER, this must be in a mobile layout; too much scrolling or whitespace will reduce your mark

Submission Details for SLATE Drop Box:

- ☐ **ZIP** your SRC folder; name of zip should be yourLoginName.zip
- ☐ Publish your site to cPanel and include the **URL DIRECTLY to your site** in the Comment section of the Drop Box
- ☐ Some things to remember:
- DO NOT wait until the last minute to complete this assignment; debugging and publishing can take time
- DO NOT change the site on cPanel once you have submitted and the Drop Box closes. If past the Due Date, late marks will apply even if submitted on time in the SLATE Drop Box

- You can submit as many times as you need to until the Drop Box closes. I will grade the last one
- You have **3 days after the Due Date** to submit with 10% off per day. After 3 days, the assignment will no longer be accepted
- **NOT PUBLISHING** results in 4 marks off automatically
- **NOT MOBILE** results in 2 marks off automatically (minimal scrolling)
- Each assignment MUST be done individually. I will be checking the project for copying;

GRADING RUBRIC:

	2
☐ Booking component is created ☐ Confirmation component is Created ☐ Header component is created ☐ Header component contains student info ☐ Routing rules are created ☐ Angular material added/ app.module updated	
☐ Booking Component contains all form elements ☐ Form elements have validations ☐ On Submit the site is routed to confirmation component ☐ Service is injected to the booking component ☐ Submitted form data saved to service method ☐ Validation is applied on each of the fields as per the rules	4
☐ Confirmation Component is displayed on form submission ☐ Confirmation page displays form information ☐ Confirmation page contains back buttons ☐ Back button routes user to booking page ☐ Service is injected into the confirmation component	2

If the site is not published, 4 marks will be deducted automatically.	-4
If site is not mobile, 2 marks will be deducted automatically / Both pages must fit in mobile space with minimal scrolling	-2