Test 4

Submission Requirements:

□ **A zip file containing your project code**. Here's how to create it:

1. Unzip the starter code from the course webpage.
2. Rename the project folder `BOOKING_FIRSTNAME`, where you replace `FIRSTNAME` with your name, example: `BOOKING_PAOLO`
3. Using the starter code, create your solution.
4. When you are finished, create a zip file containing the entire project folder:
   a. Windows: Right click on the project folder > Send To > Compressed (zip) file
   b. Mac: Right click on the project folder > Compress

5. Rename zip file `BOOKING_FIRSTNAME.zip`. Replace `FIRSTNAME` with your name, example: `BOOKING_PAOLO.zip`
6. Upload the zip file to the course dropbox

□ **If you completed the deployment component of the assignment**, then paste a link to your website in the submission dropbox.

Implementation Guidelines:

Your overall implementation must reflect the coding practices demonstrated in class. Key points include:

- When declaring variables, use let and const
- When declaring functions, use the const arrow function syntax described in class
- You **may** use the array shortcut functions: map(), reduce(), find(), forEach(), and filter()

Academic integrity

- This is an individual assessment.
- Please refer to chart below for permitted and not permitted activities

Item	Can you use it?
Using course materials (lectures, class code)	✅
Tailwind or DaisyUI documentation	✅
Searching the internet for syntax related to HTML, CSS, Javascript, Express, Tailwind/DaisyUI, Mongoose, EJS, express-session, Vercel. Examples: ● What is express function for logging out a user ● How to remove an item from an array in javascript ● Tailwind class for making bigger font ● HTML for text box ● What does this Vercel error mean? _________	✅
Asking Google or ChatGPT for solutions specifically related to the test problem. Examples: ● How to build restaurant website with Express	❌
Generative AI (ChatGPT, Copilot, NotebookLLM, etc)	❌
Visual Studio Code extensions related to AI (Github Copilot, etc)	❌
Following step-by-step tutorials	❌
Sharing resources or code	❌
Communication with others verbally or online	❌

Grading Rubric

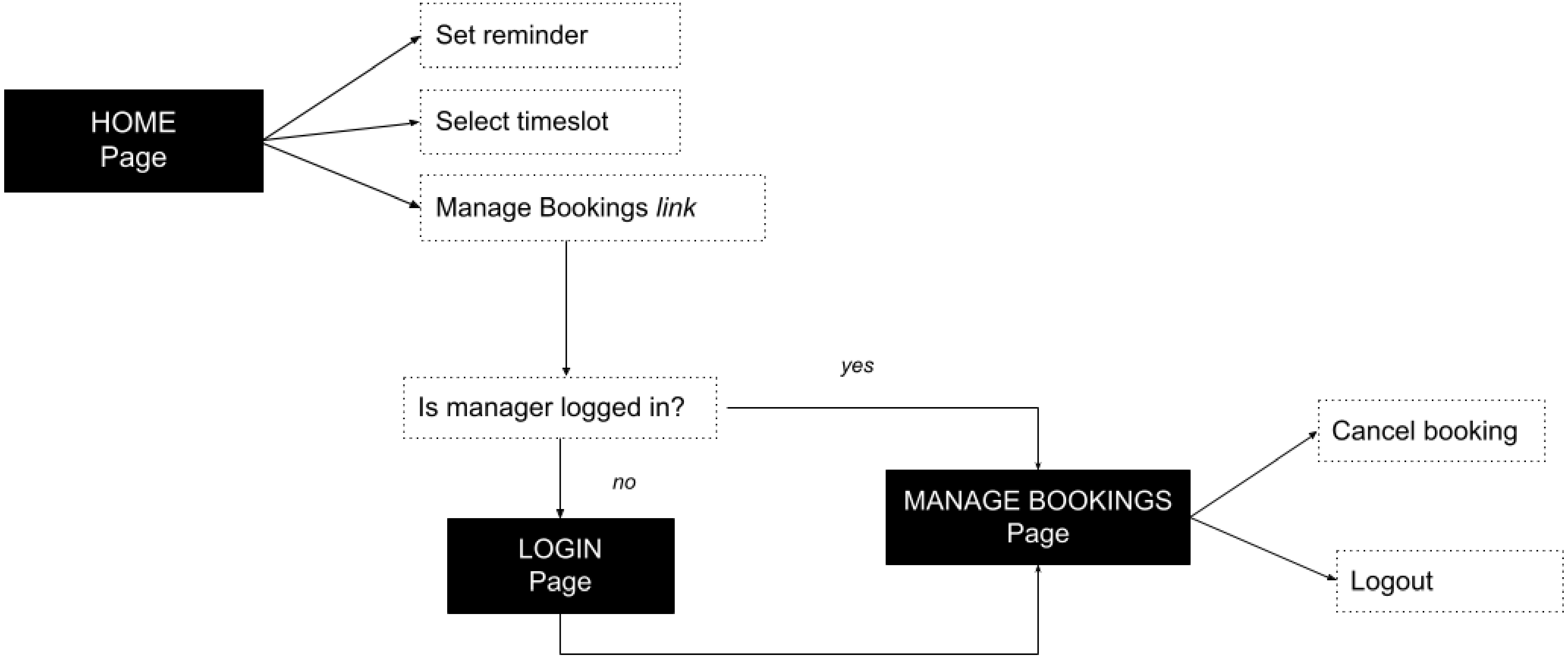
Here is the **approximate** weighting for the test components

- Deployment to Vercel	- 20%
- Home Page	
- Displaying and booking a timeslot	- 25%
- Setting a Reminder	- 25%
- Manage Bookings and cancel	- 20%
- Login, Logout, Authorization	- 10%

Problem Description

Brian Hood owns a restaurant. He hires you to build an app to help him manage his restaurant's reservations. **Your task is to develop this app.**

The app consists of 3 pages (HOME, LOGIN, MY BOOKINGS). **Here's how they interact:**



1. Starter Code

- You must use the test starter code located in the assignment folder on the course webpage.

2. Deployment

Demonstrate that you can deploy to Vercel. Choose from one of these options:

- OPTION 1: Deploy the test starter code to Vercel. Ensure you use your own Mongo Atlas credentials (not mine)
- OPTION 2: Work on the test and deploy your partially finished or complete code to Vercel.

3. User Interface

- Use the html and css given in the starter code's EJS files
- You may adjust the user interface as needed.
- You must use EJS and DaisyUI/Tailwind classes.

4. Database

- The database is already built for you. You are **NOT ALLOWED** to modify the given schemas and models.

- The database is prepopulated with these documents. You may modify these documents to your liking.

Manager

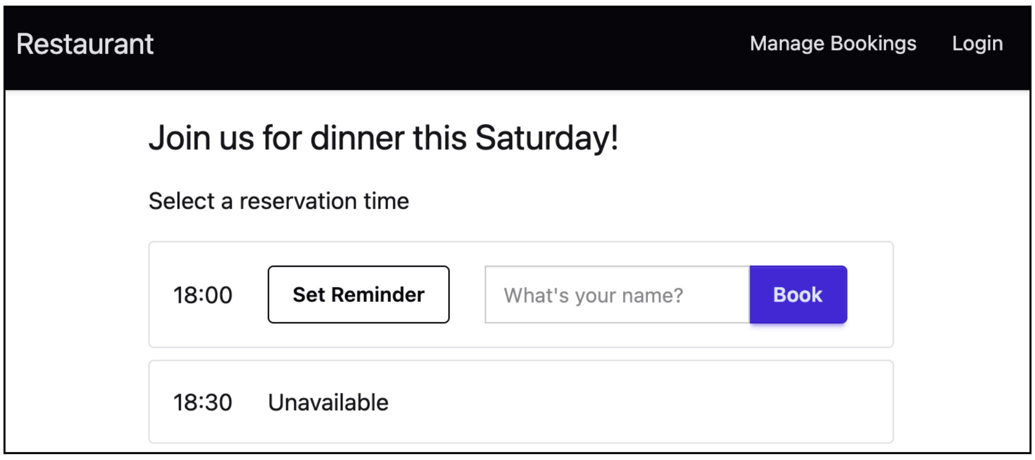
name (*string*)
admin

Timeslot

time (*string*)	**customer** (*string*)
18:00	**""** (empty string means timeslot is available)
18:30	**alice** (non-empty string means timeslot is not available)
19:00	bob
19:30	""

5. Home Page

Customers use this page to book a reservation or to set a reminder for themselves. The UI is already built for you.



Join us for dinner this Saturday!

Select a reservation time

18:00

18:30 Unavailable

Modify the given UI so that:

- □ If the timeslot is booked, show a message; “Unavailbale”
- □ If the timeslot is available, show a **Booking Form** and a Set Reminder link.

1. Booking Form

To book a timeslot, the customer enters their name in the form. When the BOOK button is pressed, the server must associate the specified timeslot with the customer.

After booking completes, display a success message. **Do not implement error handling. Assume booking always succeeds.**

2. Set Reminder

My suggestion is to implement this feature last (or after other requirements)
The description is here:

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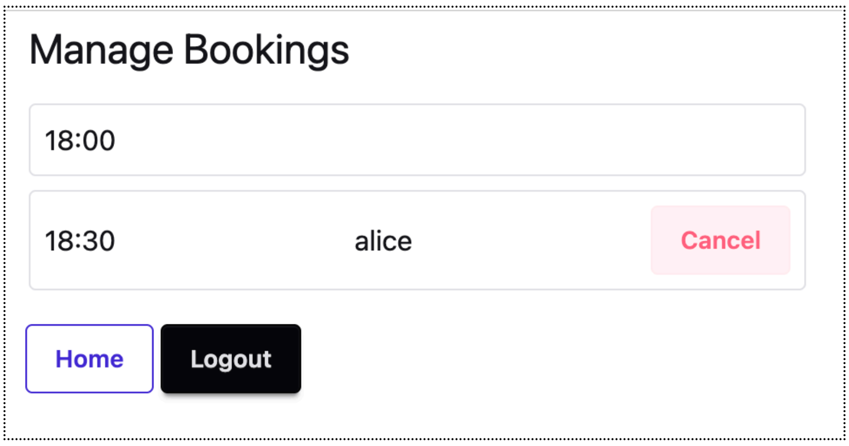
6. Manage Bookings Page

This page enables restaurant managers to control timeslots and logout. The user interface is already built for you.



Manage Bookings

18:00

18:30 alice

Update the UI so that for each timeslot

- □ If the timeslot is booked, show the **name of the customer** and a **Cancel** button.
- □ If the timeslot is available, show only the time

If the CANCEL button is pressed, update the database so the specified timeslot becomes available for booking.

7. Login/Logout

You must implement login and logout features for **managers**.

- Login page is accessible through the Home Page menu
- Logout button is on the Manage Booking page.

The user is logged in if they enter a valid manager name (example: admin)
If they enter invalid manager name, then send them back to the login screen.

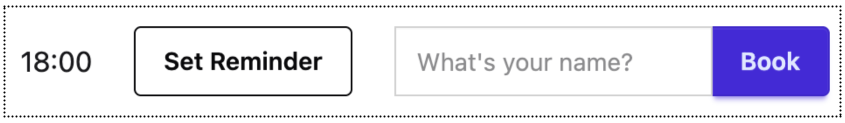
8. Authorization

Using the **`express-session`** library, your app must enforce the following rules:

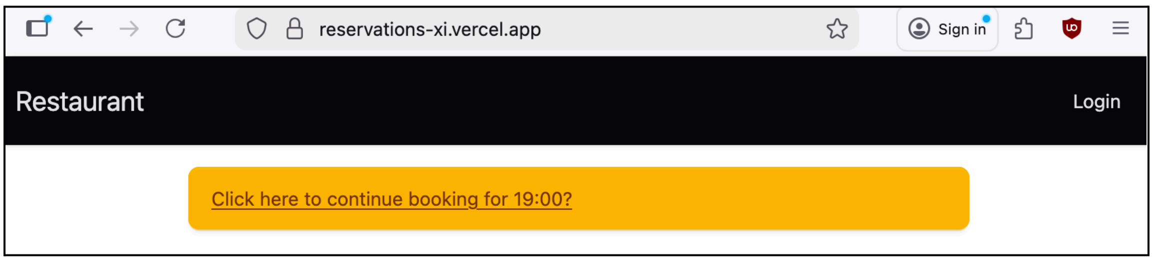
Home page	Everyone can see this page.
Login Page	Everyone can view this page.
My Bookings	Only logged in managers can see this page

9. Set Reminder Feature

On the home page, each available timeslot has a Set Reminder link



If the user presses the SET REMINDER link, the app displays a notification message on the Home Page reminding the user to complete their booking. The message must show the **time the user wants to book**.



Click here to continue booking for 19:00?

The notification is session specific. This means:

- The notification appears whenever you refresh the page. It disappears when the timeslot is booked (either by you or another user).
- if you open the Home page in a **private/incognito window** OR **different browser,** then you will NOT see the notification.