

# Developers Technical Test

## 1. Scenario

Fullerton Healthcare Group is looking to build a wellness booking portal to facilitate information transfer and booking of all activities and approval/rejection workflows.

## 2. Technology (MERN Stack)

No	Description	Technology
1	Frontend	ReactJS + Redux (You can use any templates out there for this – e.g. CoreUI)
2	Backend	NodeJS + Express
3	Database	MongoDB

## 3. Stakeholders

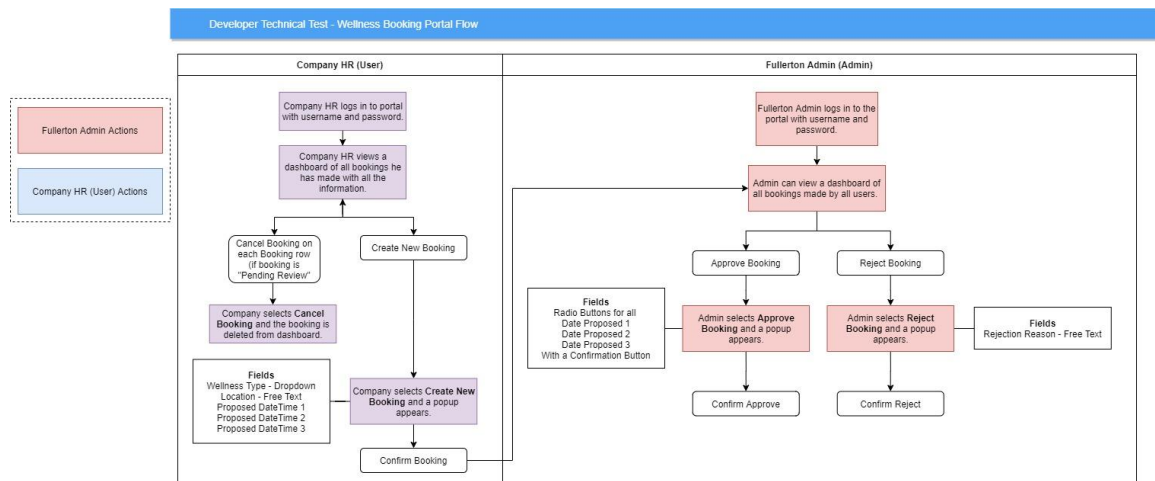
### a. Company HR (User)

No.	Track	Description
1	Login	Your database needs to store hashed passwords and login information of the Company HR (User) and role/permission control.
2	View Bookings	After login – Company HR (User) can view a dashboard for all the bookings he has made and the status of the booking with the proposed timing of the booking. A booking can have 3 statuses – “Pending Review”, “Approved”, “Rejected”. Company HR can also cancel the booking <b>only</b> if the booking is in “Pending Review” Company HR <b>cannot</b> approve / reject bookings.
3	Create a Booking	<b>Company HR</b> will be able to create a booking on the dashboard page with a button which will create a popup. The popup will ask for 3 things: 1. Type of event (Dropdown with Health Talk, Wellness Events, Fitness Activities) – <i>Dropdown editable from Database is a bonus</i> 2. Location of Event (free text) 3. Proposed Date and Time (choose 3 date and time) With a confirmation button – after creating a booking – the booking will have a “Pending Review” status.

b. Fullerton Admin

No.	Track	Description
1	Login	Your database needs to store hashed passwords and login information of the Fullerton Admin (Admin) and role/permission control.
2	View Bookings	<p>After login – Fullerton Admin (Admin) can view a dashboard for all the bookings that ALL users have made and the status of the booking with the proposed timing of the booking.</p> <p>A booking can have 3 statuses – “Pending Review”, “Approved”, “Rejected”.</p> <p>Fullerton Admin can have 2 buttons for booking that are “<b>Pending Review</b>” – Approve and Reject button.</p>
3	Approving or Rejecting a Booking	<p>If Fullerton Admin clicks on the Approve button a popup will appear with this:</p> <ol style="list-style-type: none"> <li>1. The 3 proposed dates with a confirmation button beside each date to confirm which date.</li> <li>2. Once confirm the status of the booking will be set to “Approved”</li> </ol> <p>If Fullerton Admin clicks on the Reject button a popup will appear with this:</p> <ol style="list-style-type: none"> <li>1. A free text area for “Reason for Rejection” for Fullerton Admin to key in</li> <li>2. Once confirm rejection, the status of the booking will be set to “Rejected”</li> </ol>

#### 4. User Flow



## 5. Deliverables

- a. A frontend code base (not the build version, but the “npm start” version on **port 3000**) via a git repository – please invite jinwei3000@gmail.com
- b. A backend code base with a .env file via a git repository on **port 5000** – please invite jinwei3000@gmail.com
- c. Use a free service to host your MongoDB e.g. MongoAtlas
- d. 3 accounts for login
  - i. 2 Company (User) accounts so that companies can only see their own bookings made by themselves
  - ii. 1 Admin account for approval / rejection

## 6. Criteria

- a. You will be judged on the following 5 criteria

No	Description	Score (out of 5)
1	<b>Code Readability</b> – if the candidate has commented the codes properly.	
2	<b>Code Design and Architecture</b> – if the candidate has coded reusable functions.	
3	<b>Overall Usage of the Website</b> – If the candidate has build relevant UI elements and flows according to the workflow above.	
4	<b>Framework Knowledge</b> – If the candidate has a good grasp of ReactHooks designs and the built-in functions such as useEffect() etc.	
5	<b>Defensive Programming</b> – If the candidate validates inputs provided by the user.	