Reservation App Requirements

I. Backend Side (Laravel)

1- Two types of users: User & Admin

2- Auth-related endpoints: login, register, logout, profile

3- Five categories of reservable entities:
   a) Restaurant
   b) Hotel
   c) Event hall
   d) Playground
   e) Tour

4- Restaurant has those related models:
   a) Table

5- Restaurant reservation need those pieces of data:
   a) Table
   b) Chairs count
   c) Date and time

6- Hotel related models:
   a) Room

7- Room must include those fields:
   a) Floor number
   b) Room type: delux, basic, …etc
   c) Room features
   d) Price

8- Hotel reservation must include:
   a) Room
   b) Date and time

9- Event hall related models:
   a) Event feature (extra service)

10- Event hall must include:
   a) Event type: marriage, consolation
   b) Guests count

11- Playground must include a type like tennis, basketball, …etc

12- Playground reservation must include:

    a) Date and time

13- Tour reservation don't has any restrictions, only reserve a tour that happens in a specific date and time with determined price for sure

14- All reservation types must satisfy those fields:

    a) Status: pending, rejected (by admin), cancelled (by client), done, missed

    b) Price

    c) Payment method

15- Supporting those payments methods:

    a) Cash

    b) Paypal

    c) Credit card (via stripe apis)

16- Done reservations may have a relation with a rating that has those fields:

    a) Rating value (1 - 5)

    b) Comment

17- Reservation changed status will trigger a side effect of popup notifications for mobile via firebase cloud messaging service

II. Frontend Side Client (React Ionic)

1- Intro screen for the first time when the user opens the app

2- Auth related screens: login, register, profile

3- Home screen has those parts:

    a) Search bar

    b) Slider for featured entities

    c) List (or grid) view for entites

4- Entity details screen

5- Reserve entity screen

6- Favorites entites screen

7- User's reservations screen

8- User's reservation details screen

9- Settings screen (for language and theme mode and notifications preferences)
10- Add rating dialog

III. **Frontend Side Admin (Angular Web)**

Pretty dashboard enables C.R.U.D operations on most of the models in an admin friendly way