

## Subscriptions and Reservations — varianta Andrei Petrascu

### Database diagram

Subscription	SubscriptionCalendar	Reservation
pk id	pk id	pk id
fk createdById	fk subscriptionId	fk createdById
fk courtId	startDate: date	fk courtId
month: string	endDate: date	startDate: date
startHour: string		endDate: date
endHour: string		fk player1
price: int		fk player2
		status: enum

### Create Monthly Subscription

<Form>

1. chooseCourt: dropdown with all courts
2. chooseMonth: dropdown with all year months (January, February, ... , December)
3. chooseStartHour: dropdown (00, 01, 02, ... , 23)
4. chooseEndHour: dropdown (00, 01, 02, ... , 23)
5. createMonthlySubscription**Button**

</Form>

handleCreateMonthlySubscription**Button**:

- set 'createdById' field with the logged user id [on front-end]
- compute 'price' taking into account the hourly rate [on back-end]
- send confirmation email to client
- save to DB to SubscriptionCalendar table the dates (let's say the month is April, startHour is 12 and endHour is 13; we will save 30 entries like: startDate='2022-04-01T12' endDate='2022-04-01T13', startDate='2022-04-02T12' endDate='2022-04-02T13' and so on, for every day of month 'month' of current year). I propose this approach to make our work easier when we have to search for court availability.
- save to DB to Subscription table

### Create Reservation

<Form>

1. chooseCourt: dropdown with all courts
2. chooseStartDate: calendar (date and hour)
3. chooseEndDate: calendar (date and hour)
4. createReservation**Button**

</Form>

### handleCreateReservationButton:

- set 'createdById' field with the logged user id [on front-end]
- compute 'price' taking into account the hourly rate [on back-end]
- send confirmation email to client
- set 'status' to 'OPEN'
- save to DB to Reservation table

status enum = { OPEN, CANCELED, PAYED, FINDING2, FINDING1, READY }

### ClientPage/reservations

CreatedBy	Court	StartDate	EndDate	Player1	Player2	Status	Actions
Roly	24	2022-04-08 T 12	2022-04-08 T 13	Roly	Ady	READY	Cancel, FindOnePlayer
Raul	6	2022-04-08 T 12	2022-04-08 T 13			OPEN	Cancel, FindOnePlayer
...	...	...	...	...	...	...	...

Cancel: if diff(NOW, startDate) > 24h then SuccessfullyCancel

else Pay OR FindTwoPlayers

*SuccessfullyCancel*: change reservation status to CANCELED

*Pay*: change status to PAYED

*FindTwoPlayers*:

- change status to FINDING2
- notify all users in the platform (we can without queue: show all reservations having FINDING2 status)
- first 2 users which click 'accept' button will be player1 and player2
- if both player1 and player2 are set then change status to READY

FindOnePlayer:

- change status to FINDING1
- notify all users
- first user accepting will be player2, and player1 will be the user who created (createdById)
- if both players are set, change status to READY