

## **Question & Answers**

**Quest 1:** Can you suggest a better solution to the above-mentioned interview scheduling problem?

**Answer:** The better solution which I can come up for interview scheduling problem is:

- 1- Users API- This is to take the role, name, phone number, email address, and store in the user's table.
- 2- Scheduling API- This will make reference to user\_id from the User table, date, and time-slot. The API should be capable of handling multiple time slots for a particular date as HR tends to have multiple interviews per day. For a particular user-id and for a particular date, they can post their free time-slot only 1 time, but they can modify or delete. Example- 24/08/2020- ([10:00-12:00],[14:00-16:00]). This post request will create only a single entry in DB for a particular date.
- 3- Appointment-match API- This will list the matching time slots of both the interviewer and candidate for a particular date. The param query for API will be date, duration of the interview, and both user\_ids of interviewer and candidate.
- 4- Appointment-maker API- This API will take user\_ids of both the interviewer and candidate, date, and their preferred time-slot. The entry in DB for a particular candidate and interviewer will be unique and will have one-to-many relationships, i.e one HR can have interviews with many candidates but on a particular day, they can have only one interview with a particular candidate to avoid errors.

**Quest 2:** If you had some more time how would you improve your solution?

**Answer:** These are the lists of improvements which can be done:

- 1- Currently I am taking the only hour into consideration while scheduling. Ideally, it should be a datetime.time object and should have minutes as well while scheduling an interview.
- 2- User-authentication should be there at each place.
- 3- Better referencing at place for ids that are getting referenced in the collection.
- 4- Duplicate entries should not be created for an interview with the same candidate for a particular day.