

Better solution :

- 1) Ask user to provide date and available time, slots along with a phone number and mail ID.
  - Once both interviewer and interviewee register the time slot , HR can fetch the available time slots.
  - HR will have one more api using which he/ she can select the time slot.
  - The API can be integrated with SMTP and an SMS gateway which can generate email to both interviewer's email and interviewee's email.
- 2) Along with time slot , date , email and phone number, including the post name by both interviewer and interviewee , would help the algorithm to check for available interviewers who have speciality in the field.

Eg: An interviewee applies for the post of python developer and another one for the post of the PHP developer. To distinguish them and direct them towards interviewers specialized in python and php, addition of this particular field would help .
- 3) Permit the interviewee to check for the availability of the interviewers. To do this the interviewee needs to have access to an API , that can display the available time slots of Interviewers.

Possibility to improve the current solution

- 1) I would have made use of a dedicated DB to handle the load
- 2) I would have made use of an authentication method to restrict the access to API.
- 3) I would have added a feature to permit use to include multiple time intervals within a day.

API documentation :

- 1) API to add time slot of interviewee

API name: <http://127.0.0.1:8000/hw/>

Method : GET

Parameters :

Key : values

- date : 12-03-2021,13-03,2021 ( dates on which the interviewee is free on separated by commas )
- client\_type : candidate
- id : 11407405 (unique employee id )
- ts : 10,19\$13,16\$14,25 (time slots of different date are separated by \$ sign and time slots of single day are separated by “ , ” )

Eg:

[http://127.0.0.1:8000/hw/?date=11-03-2021,14-03-2021,15-03-2021&client\\_type=candidate&id=11407404&ts=10,19\\$13,16\\$14,25](http://127.0.0.1:8000/hw/?date=11-03-2021,14-03-2021,15-03-2021&client_type=candidate&id=11407404&ts=10,19$13,16$14,25)

Return value: {"REGISTRATION" : "SUCCESS"}

2) API to add interviewer time slot

API name: <http://127.0.0.1:8000/hw/>

Method : GET

Parameters :

Key : values

- date : 12-03-2021,13-03,2021 ( dates on which the interviewee is free on separated by commas )
- client\_type : emp
- id : 11407409
- ts : 10,19\$13,16\$14,25 (time slots of different date are separated by \$ sign and time slots of single day are separated by “ , ” )

Eg:

[http://127.0.0.1:8000/hw/?date=11-03-2021,14-03-2021,15-03-2021&client\\_type=emp&id=11407404&ts=10,19\\$13,16\\$14,25](http://127.0.0.1:8000/hw/?date=11-03-2021,14-03-2021,15-03-2021&client_type=emp&id=11407404&ts=10,19$13,16$14,25)

Return value: {"REGISTRATION" : "SUCCESS"}

API to check available time slots :

API name : <http://127.0.0.1:8000/ft/>

Method : GET

Parameters :

Key : Value

emp\_id : 11407409 (Interviewer id )

candidate\_id : 11407405 ( Interviewee id)

Eg:

[http://127.0.0.1:8000/ft/?emp\\_id=11407405&candidate\\_id=11407404](http://127.0.0.1:8000/ft/?emp_id=11407405&candidate_id=11407404)

Return value: {"11-03-2021": [10, 11, 12, 13, 14, 15, 16, 17, 18], "14-03-2021": [15], "15-03-2021": []}

The value shows : date of availability and the hours at which the interview can be started

**Assumptions :**

Both interviewer and interviewee has unique ID

