Slot algorithm logic

Services of a worker

Service 1 – 30 minutes
Service 2 – 1 hours : 20 minutes
Service 3 – 2 hours : 10 minutes

Because service 1 are the smaller time we will create slot with 30 minutes for S1-S2-S3
We will always take the smaller service time and applicate it for All services.

**Sample :**
S1 , S2 , S3 will display
(worker start work 8:00 am , End of work : 12:00 am )
8:00,8:30,9:00,9:30,10:00,10:30,11:00,11:30


**Case 1 :**
If we have a break or holiday
Break or hour holiday – 10:00am,10:15am
8:00,8:30,9:00,9:30,~~10:00~~,10:15,10:45,11:15 (10:15 will be the start time (not 10:30) )

**Case 2**
Worker book at 9:00 Service 2 what happen ? ( with no Break or Holiday )
8:00 to 9:00 are free
9:00 to 10:20 are taken
Next Slot will Start at 10:20

For S1 slot will be
8:00,8:30,10:20,10:50,11:20


**If we set holiday :**
Monday 12 , Untill 10:05 am  in holiday

Monday slot will be for S1
10:05, 10:35,11:05
(slot will start after the end of hour of the holiday 10:05 , not 10:30

**Group (multi slot ) with single slot**
S1 – group , available slot  = 3. Time 1h10
S2 – Single , available slot  = 1 . Time 20 minute

Slot available (day work 8:00-12:00)
1/ we create slot each 20 minutes because this is the smaller.

Slot will be for s2 (single):
 8:00 , 8:20 , 8,40, 9:00, 9:20 , 9,40, 10:00, 10:20 , 10,40, 11:00, 11:20 , 11,40.

Slot will be for s1 (group)
8:00 , 8:20 , 8,40, 9:00, 9:20 , 9,40, 10:00, 10:20 , 10,40

**Case 1 .**
S1 (group) booked at 8:20 ( slot taken 8:20 to 9:30)

View of S1 (
8:00 , 8:20 , 8,40, 9:00, 9:20 , 9,40, 9:30 9:50, 10:10 , 10,30, 10:50.

(8:20 are still available for 2 other users ( because we have 3 available in total)
(Slot of 8:40,9:00,9:20 are hidden because we let this time to 8:20 for other users)

View of S2 (single)
8:00 , 8:20 , 8,40, 9:00, 9:20 , 9,40, 9:30 9:50, 10:10 , 10,30, 10:50, 11:10 , 11,30.

(8:20 untill 9:30 are taken )  9:30 are the new time , not 9:40


**If user book together S1 + S2**
Time will be : 20 m + 1:10 = 1:30
Slot result:
8:00 , 8:20 , 8,40, 9:00, 9:20 , 9,40, 10:00, 10:20 ,

User Booked s1 +s2 at 8:20 to 9:50
Group are by defaut Position 1 (8:20 to 9:30)
8:00, 8:20 , 8,40, 9:00, 9:20 , 9,40, (9:50) 9:50,10:10

Group booked alone will dispay
8:00, 8:20,9:50, 10:10

Single booked alone will display
8:00,9:50,10:10.
(8:20 to 9:50 are hiden because it's group)