
CS2102 Presentation

Team 88

Scope of Presentation

- Design Decisions
- Walkthrough of Contact Tracing
 - Identification of close contacts
 - Update Procedure of detecting a fever personnel
- Walkthrough of Capacity Change
 - Cancellation of meetings with participants exceeding new capacity
 - Booking a room between 2 updates

Design Decisions

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- Inclusion of a **Participants** table
 - Each row will be an instance of an employee E in a meeting M

Design Decisions

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 - Each row will be an instance of an employee E in a meeting M
- Meetings are stored by the hour in **Sessions** and **Participants** tables
 - E.g a 3 hour meeting from 10am to 1pm will have 3 rows in the tables

Sessions

time	date	room	floor	bid	approver
10	2021-11-04	1	1	1	1
11	2021-11-04	1	1	1	1
12	2021-11-04	1	1	1	1

(3 rows)

Participants

eid	time	date	room	floor
1	10	2021-11-04	1	1
1	11	2021-11-04	1	1
1	12	2021-11-04	1	1
6	10	2021-11-04	1	1
6	11	2021-11-04	1	1
6	12	2021-11-04	1	1

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- Temperature declaration can be done at any time of the day
 - An employee who has an undeclared fever can still attend a meeting

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- Meetings are stored by the hour in **Sessions** and **Participants** tables
 - E.g a 3 hour meeting from 10am to 1pm will have 3 rows in the tables
- Temperature declaration can be done at any time of the day
 - An employee who has an undeclared fever can still attend a meeting
- Exposure_end_date attribute

Function Demo

1. Contact Tracing

HealthDeclaration

eid	date	temp	fever
0	2021-11-06	36.4	f
2	2021-11-06	36.4	f
3	2021-11-06	36.5	f
4	2021-11-06	36.4	f
5	2021-11-06	36.1	f
6	2021-11-06	36.5	f
7	2021-11-06	36	f
8	2021-11-06	37.3	f
9	2021-11-06	36.8	f
10	2021-11-06	37.1	f
11	2021-11-06	36.3	f
12	2021-11-06	36.9	f
13	2021-11-06	36.5	f
14	2021-11-06	37.1	f
15	2021-11-06	36.4	f
16	2021-11-06	36.9	f
17	2021-11-06	37.4	f
18	2021-11-06	36.9	f
18 rows)			

If Manager Donn
(eid = 1) declares that he has
fever today (2021-11-06)



SELECT declare_health
(eid = 1, temp = 38);

HealthDeclaration

eid	date	temp	fever
0	2021-11-06	36.4	f
2	2021-11-06	36.4	f
3	2021-11-06	36.5	f
4	2021-11-06	36.4	f
5	2021-11-06	36.1	f
6	2021-11-06	36.5	f
7	2021-11-06	36	f
8	2021-11-06	37.3	f
9	2021-11-06	36.8	f
10	2021-11-06	37.1	f
11	2021-11-06	36.3	f
12	2021-11-06	36.9	f
13	2021-11-06	36.5	f
14	2021-11-06	37.1	f
15	2021-11-06	36.4	f
16	2021-11-06	36.9	f
17	2021-11-06	37.4	f
18	2021-11-06	36.9	f
1	2021-11-06	38	t
19 rows)			

1. Contact Tracing

Participants

eid	time	date	room	floor
1	10	2021-11-03	1	1
1	11	2021-11-03	1	1
1	12	2021-11-03	1	1
6	10	2021-11-03	1	1
6	11	2021-11-03	1	1
6	12	2021-11-03	1	1
7	10	2021-11-03	1	1
7	11	2021-11-03	1	1
7	12	2021-11-03	1	1
14	10	2021-11-03	1	1
14	11	2021-11-03	1	1
14	12	2021-11-03	1	1
15	10	2021-11-03	1	1
15	11	2021-11-03	1	1
15	12	2021-11-03	1	1
4	15	2021-11-05	2	0
0	15	2021-11-05	2	0
12	15	2021-11-05	2	0
6	21	2021-11-06	2	1
1	21	2021-11-06	2	1
0	21	2021-11-06	2	1

Close contacts :
0, 6, 7, 14 and 15

1. Contact Tracing

Participants

6	16	2021-11-07	2	1
1	20	2021-11-11	1	1
8	20	2021-11-11	1	1
10	13	2021-11-13	2	3
0	13	2021-11-13	2	3
7	13	2021-11-13	2	3
3	13	2021-11-13	2	3
2	0	2021-11-14	1	2
8	0	2021-11-14	1	2
9	0	2021-11-14	1	2
19	0	2021-11-14	1	2
0	0	2021-11-14	1	2



Sessions

time	date	room	floor	bid	approver
10	2021-11-03	1	1	1	1
11	2021-11-03	1	1	1	1
12	2021-11-03	1	1	1	1
15	2021-11-05	2	0	4	0
21	2021-11-06	2	1	6	1
16	2021-11-07	2	1	6	
20	2021-11-11	1	1	1	1
13	2021-11-13	2	3	10	3
0	2021-11-14	1	2	2	2

9 rows)

Participants (after contact tracing)

eid	time	date	room	floor
1	10	2021-11-03	1	1
1	11	2021-11-03	1	1
1	12	2021-11-03	1	1
6	10	2021-11-03	1	1
6	11	2021-11-03	1	1
6	12	2021-11-03	1	1
7	10	2021-11-03	1	1
7	11	2021-11-03	1	1
7	12	2021-11-03	1	1
14	10	2021-11-03	1	1
14	11	2021-11-03	1	1
14	12	2021-11-03	1	1
15	10	2021-11-03	1	1
15	11	2021-11-03	1	1
15	12	2021-11-03	1	1
4	15	2021-11-05	2	0
0	15	2021-11-05	2	0
12	15	2021-11-05	2	0
6	21	2021-11-06	2	1
1	21	2021-11-06	2	1
0	21	2021-11-06	2	1
10	13	2021-11-13	2	3
3	13	2021-11-13	2	3
2	0	2021-11-14	1	2
8	0	2021-11-14	1	2
9	0	2021-11-14	1	2
19	0	2021-11-14	1	2
0	0	2021-11-14	1	2

28 rows)

1. Contact Tracing

Employees

eid	ename	email	home	phone	office	resign	did	exposure_end_date
1	Donn	Donn1@ilovenus.com	97347745	57634275			1	
2	Adriane	Adriane2@ilovenus.com	46072806	61210501	21650107		2	
3	Yolane	Yolane3@ilovenus.com		35450235	65595266		3	
4	Jacqueline	Jacqueline4@ilovenus.com	53850002	47921732	52116532		0	
5	Paula	Paula5@ilovenus.com		30162962	65763936		0	
8	Quintilla	Quintilla8@ilovenus.com	81964694	27390734	78387189		2	
9	Kimball	Kimball9@ilovenus.com		42615309	55287708		2	
10	Lacey	Lacey10@ilovenus.com	84960263	23474737			3	
11	Thalia	Thalia11@ilovenus.com	70057524	54611591	34287578		3	
12	Stan	Stan12@ilovenus.com	52941167	17081555	91285021		0	
13	Kimmi	Kimmi13@ilovenus.com	95867972	99531484	14384585		0	
16	Walton	Walton16@ilovenus.com	14919719	75985977	51671799		2	
17	Ogdan	Ogdan17@ilovenus.com	45984958	47010937	32032874		2	
18	Vere	Vere18@ilovenus.com	73237410	69121831			3	
19	Huey	Huey19@ilovenus.com	82950578	36732148	77046018		3	
0	Seumas	Semuas0@ilovenus.com	52087807	95511104	23111954		0	2021-11-13
6	Dukie	Dukie6@ilovenus.com	25284293	74881288	47752861		1	2021-11-13
7	Veda	Veda7@ilovenus.com	96178253	88279549	29397038		1	2021-11-13
14	Pauli	Pauli14@ilovenus.com	54064156	83490623	95824800		1	2021-11-13
15	Lucila	Lucila15@ilovenus.com	78492733	69266805	35115840		1	2021-11-13

20 rows)

2. Change Capacity

MeetingRooms

room	floor	rname	did
1	0	Dove	0
2	0	Bat	0
1	1	Lion	1
2	1	Tiger	1
1	2	Whale	2
2	2	Dolphin	2
1	3	Snake	3
2	3	Lizard	3

(8 rows)

Updates

date	room	floor	capacity	eid
2021-11-03	1	0	5	0
2021-11-03	2	0	5	0
2021-11-03	1	1	5	1
2021-11-03	2	1	5	1
2021-11-03	1	2	5	2
2021-11-03	2	2	5	2
2021-11-03	1	3	5	3
2021-11-03	2	3	5	3

(8 rows)



Updates

date	room	floor	capacity	eid
2021-11-03	1	0	5	0
2021-11-03	2	0	5	0
2021-11-03	1	1	5	1
2021-11-03	2	1	5	1
2021-11-03	1	2	5	2
2021-11-03	2	2	5	2
2021-11-03	1	3	5	3
2021-11-03	2	3	5	3
2021-11-10	1	2	4	2

(9 rows)

2. Change Capacity

MeetingRooms

room	floor	rname	did
1	0	Dove	0
2	0	Bat	0
1	1	Lion	1
2	1	Tiger	1
1	2	Whale	2
2	2	Dolphin	2

Participants

eid	time	date	room	floor
1	10	2021-11-03	1	1
1	11	2021-11-03	1	1
1	12	2021-11-03	1	1
6	10	2021-11-03	1	1
6	11	2021-11-03	1	1
6	12	2021-11-03	1	1
7	10	2021-11-03	1	1
7	11	2021-11-03	1	1
7	12	2021-11-03	1	1
14	10	2021-11-03	1	1
14	11	2021-11-03	1	1
14	12	2021-11-03	1	1
15	10	2021-11-03	1	1
15	11	2021-11-03	1	1
15	12	2021-11-03	1	1
4	15	2021-11-05	2	0
0	15	2021-11-05	2	0
12	15	2021-11-05	2	0
6	21	2021-11-06	2	1
1	21	2021-11-06	2	1
0	21	2021-11-06	2	1
10	13	2021-11-13	2	3
3	13	2021-11-13	2	3
2	0	2021-11-14	1	2
8	0	2021-11-14	1	2
9	0	2021-11-14	1	2
19	0	2021-11-14	1	2
0	0	2021-11-14	1	2

(28 rows)



Participants

eid	time	date	room	floor
1	10	2021-11-03	1	1
1	11	2021-11-03	1	1
1	12	2021-11-03	1	1
6	10	2021-11-03	1	1
6	11	2021-11-03	1	1
6	12	2021-11-03	1	1
7	10	2021-11-03	1	1
7	11	2021-11-03	1	1
7	12	2021-11-03	1	1
14	10	2021-11-03	1	1
14	11	2021-11-03	1	1
14	12	2021-11-03	1	1
15	10	2021-11-03	1	1
15	11	2021-11-03	1	1
15	12	2021-11-03	1	1
4	15	2021-11-05	2	0
0	15	2021-11-05	2	0
12	15	2021-11-05	2	0
6	21	2021-11-06	2	1
1	21	2021-11-06	2	1
0	21	2021-11-06	2	1
10	13	2021-11-13	2	3
3	13	2021-11-13	2	3
2	0	2021-11-14	1	2
8	0	2021-11-14	1	2
9	0	2021-11-14	1	2
19	0	2021-11-14	1	2
0	0	2021-11-14	1	2

(23 rows)

2. Change Capacity

Updates

date	room	floor	capacity	eid
2021-11-03	1	0	5	0
2021-11-03	2	0	5	0
2021-11-03	1	1	5	1
2021-11-03	2	1	5	1
2021-11-03	1	2	5	2
2021-11-03	2	2	5	2
2021-11-03	1	3	5	3
2021-11-03	2	3	5	3
2021-11-10	1	2	4	2
2021-11-20	1	3	1	3

(10 rows)

Capacity changed to
1 wef 2021-11-20



Participants

eid	time	date	room	floor
1	10	2021-11-03	1	1
1	11	2021-11-03	1	1
1	12	2021-11-03	1	1
6	10	2021-11-03	1	1
6	11	2021-11-03	1	1
6	12	2021-11-03	1	1
7	10	2021-11-03	1	1
7	11	2021-11-03	1	1
7	12	2021-11-03	1	1
14	10	2021-11-03	1	1
14	11	2021-11-03	1	1
14	12	2021-11-03	1	1
15	10	2021-11-03	1	1
15	11	2021-11-03	1	1
15	12	2021-11-03	1	1
4	15	2021-11-05	2	0
0	15	2021-11-05	2	0
12	15	2021-11-05	2	0
6	21	2021-11-06	2	1
1	21	2021-11-06	2	1
0	21	2021-11-06	2	1
10	13	2021-11-13	2	3
3	13	2021-11-13	2	3
3	15	2021-11-17	1	3
3	16	2021-11-17	1	3
3	17	2021-11-17	1	3
3	18	2021-11-17	1	3
3	19	2021-11-17	1	3
18	15	2021-11-17	1	3
18	16	2021-11-17	1	3
18	17	2021-11-17	1	3
18	18	2021-11-17	1	3
18	19	2021-11-17	1	3

(33 rows)

Thanks for listening
