Faculdade de Design,
Tecnologia e Comunicação
Universidade Europeia

Think Toilet

Base de Dados

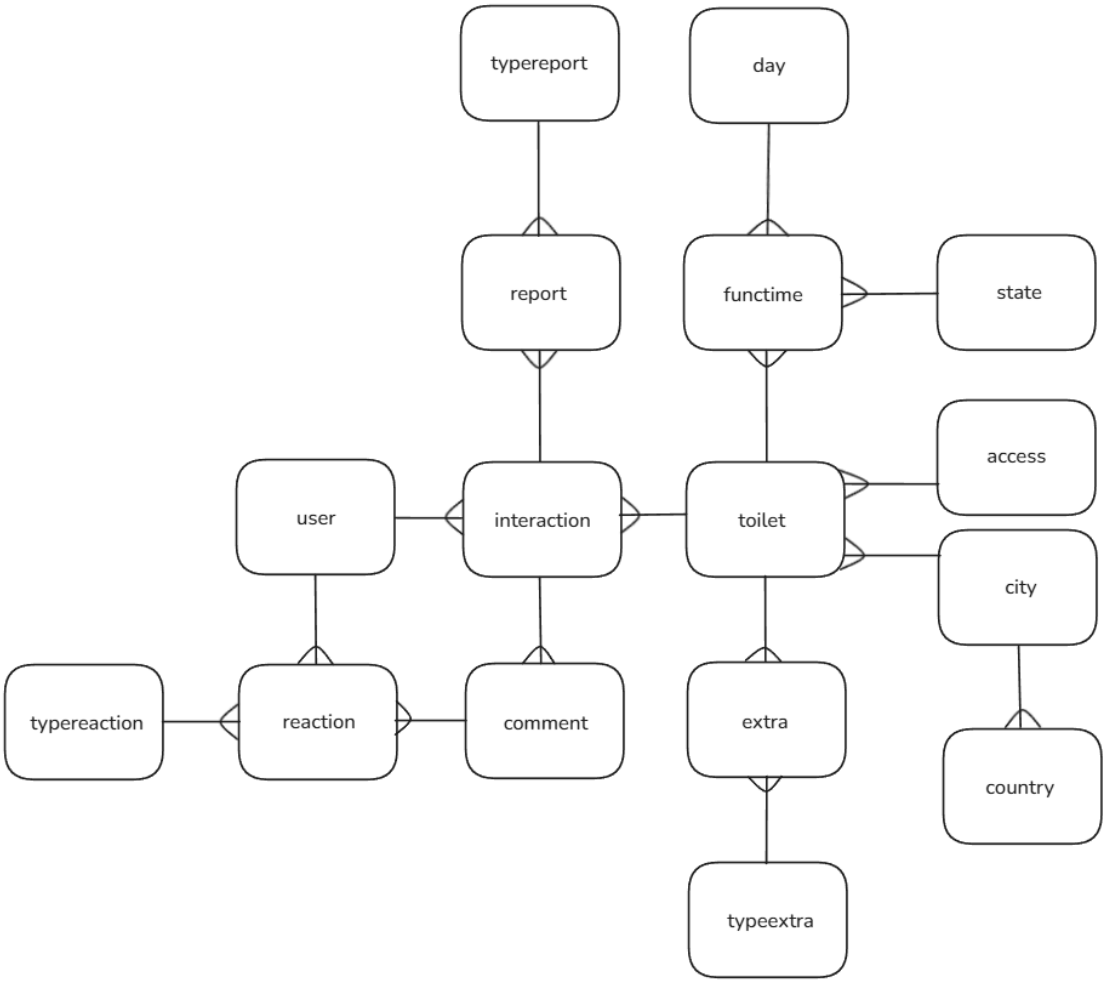
Curso: Engenharia Informática
Semestre: 2024/2025 - Terceiro Semestre

Nycolas Souza - 20230989
Luan Ribeiro - 20230692
Lohanne Guedes - 20220085

Introdução

O projeto **Think Toilet** é uma aplicação móvel que ajuda os utilizadores a encontrar e avaliar casas de banho próximas. A aplicação exibe um mapa interativo com as casas de banho mais bem avaliadas e fornece informações como preço, acessibilidade e restrições de uso (gratuito, público ou para clientes). Os utilizadores podem avaliar critérios como limpeza, acessibilidade, papel disponível e estrutura, além de deixar comentários. A aplicação também permite sugerir novas casas de banho, denunciar locais ou comentários inadequados e visualizar seu histórico de avaliações. Com integração ao Google Maps, oferece rotas para facilitar o acesso aos locais.

Modelo Entidade-Relacionamento



user

A tabela **user** armazena as informações dos usuários registrados na plataforma. Ela é fundamental, pois serve como base para todas as interações dentro do sistema. Cada usuário é identificado de forma única, o que permite rastrear suas ações e feedbacks.

user_id	user_name	user_email	user_pwd	user_points	user_iconid	user_bdate	user_cdate
1	Alice Silva	alice@gmail.com	password123	120	icon1	1990-05-14	2024-11-02
2	Bruno Costa	bruno@hotmail.com	securepass456	300	icon2	1985-09-25	2024-11-02
3	Carla Nunes	carla@gmail.com	mypassword789	200	icon3	1992-03-18	2024-11-02
4	Diego Martins	diego@yahoo.com	diego_pass	150	icon4	1988-12-22	2024-11-02
5	Eva Rocha	eva.rocha@gmail.com	password_12345	220	icon5	1995-08-12	2024-11-02
6	Fábio Souza	fabio.souza@gmail.com	fabio_pass	180	icon6	1991-11-30	2024-11-02
7	Gisele Almeida	gisele.almeida@gmail.com	gisele123	250	icon7	1989-07-05	2024-11-02
8	Henrique Lima	henrique.lima@hotmail.com	henrique456	100	icon8	1993-01-15	2024-11-02
9	Isabel Ferreira	isabel.ferreira@gmail.com	isabel789	350	icon9	1984-04-28	2024-11-02
10	João Pedro	joao.pedro@gmail.com	joao_pass	275	icon10	1990-10-02	2024-11-02
11	Larissa Gomes	larissa.gomes@hotmail.com	larissa123	320	icon11	1994-06-17	2024-11-02
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Scripts - Create:

```
create table user (
                    user_id INT NOT NULL auto_increment,
                    user_name VARCHAR(50) NOT NULL,
                    user_email VARCHAR(100) NOT NULL,
                    user_pwd VARCHAR(255) NOT NULL,
                    user_points INT,
                    user_iconid VARCHAR(255),
                    user_bdate DATE,
                    user_cdate DATE NOT NULL,
                    primary key (user_id)
);
```

Scripts - Populate:

```
insert into user (user_name, user_email, user_pwd, user_points, user_iconid,
user_bdate, user_cdate) values('Alice Silva', 'alice@gmail.com', 'password123', 120,
'icon1', STR_TO_DATE('1990-05-14', '%Y-%m-%d'), CURDATE());
insert into user (user_name, user_email, user_pwd, user_points, user_iconid,
user_bdate, user_cdate) values('Bruno Costa', 'bruno@hotmail.com', 'securepass456',
300, 'icon2', STR_TO_DATE('1985-09-25', '%Y-%m-%d'), CURDATE());
insert into user (user_name, user_email, user_pwd, user_points, user_iconid,
user_bdate, user_cdate) values('Carla Nunes', 'carla@gmail.com', 'mypassword789', 200,
'icon3', STR_TO_DATE('1992-03-18', '%Y-%m-%d'), CURDATE());
insert into user (user_name, user_email, user_pwd, user_points, user_iconid,
user_bdate, user_cdate) values('Diego Martins', 'diego@yahoo.com', 'diego_pass', 150,
'icon4', STR_TO_DATE('1988-12-22', '%Y-%m-%d'), CURDATE());
```

```sql
insert into user (user_name, user_email, user_pwd, user_points, user_iconid,
user_bdate, user_cdate) values('Eva Rocha', 'eva.rocha@gmail.com', 'password_12345',
220, 'icon5', STR_TO_DATE('1995-08-12', '%Y-%m-%d'), CURDATE());
insert into user (user_name, user_email, user_pwd, user_points, user_iconid,
user_bdate, user_cdate) values('Fábio Souza', 'fabio.souza@gmail.com', 'fabio_pass',
180, 'icon6', STR_TO_DATE('1991-11-30', '%Y-%m-%d'), CURDATE());
insert into user (user_name, user_email, user_pwd, user_points, user_iconid,
user_bdate, user_cdate) values('Gisele Almeida', 'gisele.almeida@gmail.com',
'gisele123', 250, 'icon7', STR_TO_DATE('1989-07-05', '%Y-%m-%d'), CURDATE());
insert into user (user_name, user_email, user_pwd, user_points, user_iconid,
user_bdate, user_cdate) values('Henrique Lima', 'henrique.lima@hotmail.com',
'henrique456', 100, 'icon8', STR_TO_DATE('1993-01-15', '%Y-%m-%d'), CURDATE());
insert into user (user_name, user_email, user_pwd, user_points, user_iconid,
user_bdate, user_cdate) values('Isabel Ferreira', 'isabel.ferreira@gmail.com',
'isabel789', 350, 'icon9', STR_TO_DATE('1984-04-28', '%Y-%m-%d'), CURDATE());
insert into user (user_name, user_email, user_pwd, user_points, user_iconid,
user_bdate, user_cdate) values('João Pedro', 'joao.pedro@gmail.com', 'joao_pass', 275,
'icon10', STR_TO_DATE('1990-10-02', '%Y-%m-%d'), CURDATE());
insert into user (user_name, user_email, user_pwd, user_points, user_iconid,
user_bdate, user_cdate) values('Larissa Gomes', 'larissa.gomes@hotmail.com',
'larissa123', 320, 'icon11', STR_TO_DATE('1994-06-17', '%Y-%m-%d'), CURDATE());
```

toilet

A tabela **toilet** contém informações sobre as casas de banho disponíveis para os usuários. Essa tabela é crucial, pois fornece a localização e características das casas de banho, facilitando a busca e a interação dos usuários com o sistema.

toil_id	toil_city_id	toil_acs_id	toil_name	toil_lat	toil_long	toil_address	toil_mapsid	toil_cdate	toil_image
1	1	1	Main Mall Restroom	40.7128	-74.006	123 Main St	maplink1	2024-11-02	image1.jpg
2	1	2	Library Restroom	40.7129	-74.0059	456 Library Ave	maplink2	2024-11-02	image2.jpg
3	2	1	Park Restroom	40.713	-74.0058	789 Park St	maplink3	2024-11-02	image3.jpg
4	2	2	Office Restroom	40.7131	-74.0057	101 Office Ave	maplink4	2024-11-02	image4.jpg
5	3	1	Stadium Restroom	40.7132	-74.0056	102 Stadium Blvd	maplink5	2024-11-02	image5.jpg
6	3	2	Shopping Restroom	40.7133	-74.0055	103 Shopping Plaza	maplink6	2024-11-02	image6.jpg
7	1	1	Central Square Restroom	40.714	-74.004	150 Central Sq	maplink7	2024-11-02	image7.jpg
8	2	2	City Park Restroom	40.715	-74.003	200 City Park	maplink8	2024-11-02	image8.jpg
9	3	1	Riverfront Restroom	40.716	-74.002	300 Riverfront Blvd	maplink9	2024-11-02	image9.jpg
10	1	2	Museum Restroom	40.717	-74.001	400 Museum Ave	maplink10	2024-11-02	image10.jpg
11	2	1	Zoo Restroom	40.718	-74	500 Zoo Ln	maplink11	2024-11-02	image11.jpg
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Scripts - Create:

```
create table toilet (
                    toil_id INT NOT NULL auto_increment,
                    toil_city_id INT NOT NULL,
                    toil_acs_id INT NOT NULL,
                    toil_name VARCHAR(50) NOT NULL,
                    toil_lat DOUBLE NOT NULL,
                    toil_long DOUBLE NOT NULL,
                    toil_address VARCHAR(255) NOT NULL,
                    toil_mapsid VARCHAR(255),
                    toil_cdate DATE NOT NULL,
                    toil_image VARCHAR(255),
                    primary key (toil_id)
);
```

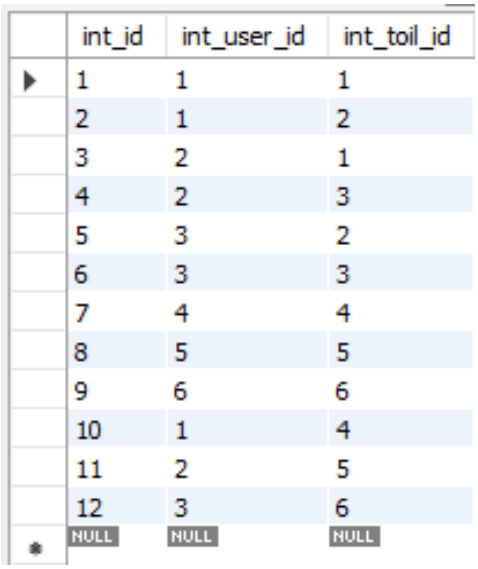
Scripts - Populate:

```
insert into toilet (toil_city_id, toil_acs_id, toil_name, toil_lat, toil_long,
toil_address, toil_mapsid, toil_cdate, toil_image) values (1, 1, 'Main Mall Restroom',
40.7128, -74.0060, '123 Main St', 'maplink1', CURDATE(), 'image1.jpg');
insert into toilet (toil_city_id, toil_acs_id, toil_name, toil_lat, toil_long,
toil_address, toil_mapsid, toil_cdate, toil_image) values (1, 2, 'Library Restroom',
40.7129, -74.0059, '456 Library Ave', 'maplink2', CURDATE(), 'image2.jpg');
insert into toilet (toil_city_id, toil_acs_id, toil_name, toil_lat, toil_long,
toil_address, toil_mapsid, toil_cdate, toil_image) values (2, 1, 'Park Restroom',
40.7130, -74.0058, '789 Park St', 'maplink3', CURDATE(), 'image3.jpg');
insert into toilet (toil_city_id, toil_acs_id, toil_name, toil_lat, toil_long,
toil_address, toil_mapsid, toil_cdate, toil_image) values (2, 2, 'Office Restroom',
40.7131, -74.0057, '101 Office Ave', 'maplink4', CURDATE(), 'image4.jpg');
```

```sql
insert into toilet (toil_city_id, toil_acs_id, toil_name, toil_lat, toil_long,
toil_address, toil_mapsid, toil_cdate, toil_image) values (3, 1, 'Stadium Restroom',
40.7132, -74.0056, '102 Stadium Blvd', 'maplink5', CURDATE(), 'image5.jpg');
insert into toilet (toil_city_id, toil_acs_id, toil_name, toil_lat, toil_long,
toil_address, toil_mapsid, toil_cdate, toil_image) values (3, 2, 'Shopping Restroom',
40.7133, -74.0055, '103 Shopping Plaza', 'maplink6', CURDATE(), 'image6.jpg');
insert into toilet (toil_city_id, toil_acs_id, toil_name, toil_lat, toil_long,
toil_address, toil_mapsid, toil_cdate, toil_image) values (1, 1, 'Central Square
Restroom', 40.7140, -74.0040, '150 Central Sq', 'maplink7', CURDATE(), 'image7.jpg');
insert into toilet (toil_city_id, toil_acs_id, toil_name, toil_lat, toil_long,
toil_address, toil_mapsid, toil_cdate, toil_image) values (2, 2, 'City Park Restroom',
40.7150, -74.0030, '200 City Park', 'maplink8', CURDATE(), 'image8.jpg');
insert into toilet (toil_city_id, toil_acs_id, toil_name, toil_lat, toil_long,
toil_address, toil_mapsid, toil_cdate, toil_image) values (3, 1, 'Riverfront
Restroom', 40.7160, -74.0020, '300 Riverfront Blvd', 'maplink9', CURDATE(),
'image9.jpg');
insert into toilet (toil_city_id, toil_acs_id, toil_name, toil_lat, toil_long,
toil_address, toil_mapsid, toil_cdate, toil_image) values (1, 2, 'Museum Restroom',
40.7170, -74.0010, '400 Museum Ave', 'maplink10', CURDATE(), 'image10.jpg');
insert into toilet (toil_city_id, toil_acs_id, toil_name, toil_lat, toil_long,
toil_address, toil_mapsid, toil_cdate, toil_image) values (2, 1, 'Zoo Restroom',
40.7180, -74.0000, '500 Zoo Ln', 'maplink11', CURDATE(), 'image11.jpg');
```

interaction

A tabela **interaction** é responsável por registrar as interações entre usuários e casas de banho. Essa tabela é vital para entender o uso e a experiência dos usuários em relação às casas de banho. Além disso, ela possibilita a ligação entre os usuários e suas ações, como comentários e denúncias.



int_id	int_user_id	int_toil_id
1	1	1
2	1	2
3	2	1
4	2	3
5	3	2
6	3	3
7	4	4
8	5	5
9	6	6
10	1	4
11	2	5
12	3	6
NULL	NULL	NULL

Scripts - Create:

```
create table interaction (
                    int_id INT NOT NULL auto_increment,
                    int_user_id INT NOT NULL,
                    int_toil_id INT NOT NULL,
                    primary key (int_id)
);
```

Scripts - Populate:

```
insert into interaction (int_user_id, int_toil_id) values (1, 1);
insert into interaction (int_user_id, int_toil_id) values (1, 2);
insert into interaction (int_user_id, int_toil_id) values (2, 1);
insert into interaction (int_user_id, int_toil_id) values (2, 3);
insert into interaction (int_user_id, int_toil_id) values (3, 2);
insert into interaction (int_user_id, int_toil_id) values (3, 3);
insert into interaction (int_user_id, int_toil_id) values (4, 4);
insert into interaction (int_user_id, int_toil_id) values (5, 5);
insert into interaction (int_user_id, int_toil_id) values (6, 6);
insert into interaction (int_user_id, int_toil_id) values (1, 4);
insert into interaction (int_user_id, int_toil_id) values (2, 5);
insert into interaction (int_user_id, int_toil_id) values (3, 6);
```

report

A tabela **report** registra as denúncias feitas pelos usuários sobre as casas de banho, permitindo que problemas e melhorias sejam identificados. Sua importância reside na capacidade de coletar feedback estruturado, contribuindo para a manutenção e aprimoramento das casas de banho.

rep_id	rep_trp_id	rep_int_id	rep_cdate
1	1	1	2024-11-02
2	2	1	2024-11-02
3	1	2	2024-11-02
4	3	3	2024-11-02
5	2	4	2024-11-02
6	1	5	2024-11-02
7	2	6	2024-11-02
8	3	1	2024-11-02
9	1	4	2024-11-02
NULL	NULL	NULL	NULL

Scripts - Create:

```
create table report (
                    rep_id INT NOT NULL auto_increment,
                    rep_trp_id INT NOT NULL,
                    rep_int_id INT NOT NULL,
                    rep_cdate DATE NOT NULL,
                    primary key (rep_id)
);
```

Scripts - Populate:

```
insert into report (rep_trp_id, rep_int_id, rep_cdate) values (1, 1, CURDATE());
insert into report (rep_trp_id, rep_int_id, rep_cdate) values (2, 1, CURDATE());
insert into report (rep_trp_id, rep_int_id, rep_cdate) values (1, 2, CURDATE());
insert into report (rep_trp_id, rep_int_id, rep_cdate) values (3, 3, CURDATE());
insert into report (rep_trp_id, rep_int_id, rep_cdate) values (2, 4, CURDATE());
insert into report (rep_trp_id, rep_int_id, rep_cdate) values (1, 5, CURDATE());
insert into report (rep_trp_id, rep_int_id, rep_cdate) values (2, 6, CURDATE());
insert into report (rep_trp_id, rep_int_id, rep_cdate) values (3, 1, CURDATE());
insert into report (rep_trp_id, rep_int_id, rep_cdate) values (1, 4, CURDATE());
```

reaction

A tabela **reaction** registra as reações dos usuários aos comentários. Sua importância reside na capacidade de coletar e categorizar as opiniões dos usuários sobre o que outros usuários estão dizendo.

react_id	react_user_id	react_cmm_id	react_trc_id	react_cdate
1	1	1	1	2024-11-02
2	2	2	2	2024-11-02
3	3	3	3	2024-11-02
4	4	4	4	2024-11-02
5	5	5	5	2024-11-02
6	6	6	6	2024-11-02
7	1	7	1	2024-11-02
8	2	8	2	2024-11-02
NULL	NULL	NULL	NULL	NULL

Scripts - Create:

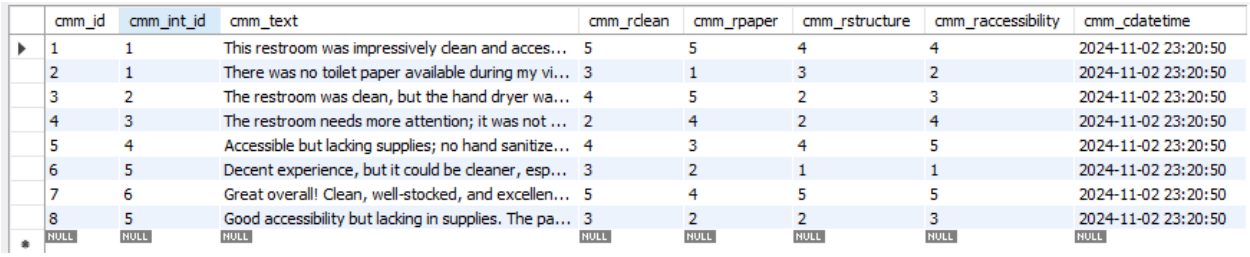
```
create table reaction (
                    react_id INT NOT NULL auto_increment,
                    react_user_id INT NOT NULL,
                    react_cmm_id INT NOT NULL,
                    react_trc_id INT NOT NULL,
                    react_cdate DATE NOT NULL,
                    primary key (react_id)
);
```

Scripts - Populate:

```
insert into reaction (react_user_id, react_cmm_id, react_trc_id, react_cdate) values
(1, 1, 1, CURDATE());
insert into reaction (react_user_id, react_cmm_id, react_trc_id, react_cdate) values
(2, 2, 2, CURDATE());
insert into reaction (react_user_id, react_cmm_id, react_trc_id, react_cdate) values
(3, 3, 3, CURDATE());
insert into reaction (react_user_id, react_cmm_id, react_trc_id, react_cdate) values
(4, 4, 4, CURDATE());
insert into reaction (react_user_id, react_cmm_id, react_trc_id, react_cdate) values
(5, 5, 5, CURDATE());
insert into reaction (react_user_id, react_cmm_id, react_trc_id, react_cdate) values
(6, 6, 6, CURDATE());
insert into reaction (react_user_id, react_cmm_id, react_trc_id, react_cdate) values
(1, 7, 1, CURDATE());
insert into reaction (react_user_id, react_cmm_id, react_trc_id, react_cdate) values
(2, 8, 2, CURDATE());
```

comment

A tabela **comment** registra os comentários feitos pelos usuários sobre suas interações com os banheiros. Essa tabela é importante para coletar feedback direto e experiências dos usuários, ajudando a melhorar os serviços.



cmm_id	cmm_int_id	cmm_text	cmm_rclean	cmm_rpaper	cmm_rstructure	cmm_raccessibility	cmm_cdatetime
1	1	This restroom was impressively clean and acces...	5	5	4	4	2024-11-02 23:20:50
2	1	There was no toilet paper available during my vi...	3	1	3	2	2024-11-02 23:20:50
3	2	The restroom was clean, but the hand dryer wa...	4	5	2	3	2024-11-02 23:20:50
4	3	The restroom needs more attention; it was not ...	2	4	2	4	2024-11-02 23:20:50
5	4	Accessible but lacking supplies; no hand sanitize...	4	3	4	5	2024-11-02 23:20:50
6	5	Decent experience, but it could be cleaner, esp...	3	2	1	1	2024-11-02 23:20:50
7	6	Great overall! Clean, well-stocked, and excellen...	5	4	5	5	2024-11-02 23:20:50
8	5	Good accessibility but lacking in supplies. The pa...	3	2	2	3	2024-11-02 23:20:50
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

As colunas `cmm_rclean`, `cmm_rpaper`, `cmm_rstructure` e `cmm_accessibility`, apresentam esse prefixo “r” de “rating”. Além disso, essas categorias podem mudar ao longo do desenvolvimento do projeto, não são definitivas.

Scripts - Create:

```
create table comment (
                    cmm_id INT NOT NULL auto_increment,
                    cmm_int_id INT NOT NULL,
                    cmm_text VARCHAR(280) NOT NULL,
                    cmm_rclean INT NOT NULL,
                    cmm_rpaper INT NOT NULL,
                    cmm_rstructure INT NOT NULL,
                    cmm_raccessibility INT NOT NULL,
                    cmm_cdatetime DATETIME NOT NULL,
                    primary key (cmm_id)
);
```

Scripts - Populate:

```
insert into comment (cmm_int_id, cmm_text, cmm_rclean, cmm_rpaper, cmm_rstructure,
cmm_raccessibility, cmm_cdatetime) values (1, 'This restroom was impressively clean
and accessible. Its spacious and well-maintained, perfect for wheelchair users!', 5,
5, 4, 4, NOW());
insert into comment (cmm_int_id, cmm_text, cmm_rclean, cmm_rpaper, cmm_rstructure,
cmm_raccessibility, cmm_cdatetime) values (1, 'There was no toilet paper available
during my visit. Otherwise, it seemed fine, but supply tracking needs improvement.',
3, 1, 3, 2, NOW());
insert into comment (cmm_int_id, cmm_text, cmm_rclean, cmm_rpaper, cmm_rstructure,
cmm_raccessibility, cmm_cdatetime) values (2, 'The restroom was clean, but the hand
dryer was broken, and I didnt find any paper towels. Regular checks are necessary.',
4, 5, 2, 3, NOW());
insert into comment (cmm_int_id, cmm_text, cmm_rclean, cmm_rpaper, cmm_rstructure,
cmm_raccessibility, cmm_cdatetime) values (3, 'The restroom needs more attention; it
```

```
was not very clean, with stains on the floor and an overflowing trash bin.', 2, 4, 2,
4, NOW());
insert into comment (cmm_int_id, cmm_text, cmm_rclean, cmm_rpaper, cmm_rstructure,
cmm_raccessibility, cmm_cdatetime) values (4, 'Accessible but lacking supplies; no
hand sanitizer and an empty soap dispenser. These details matter!', 4, 3, 4, 5,
NOW());
insert into comment (cmm_int_id, cmm_text, cmm_rclean, cmm_rpaper, cmm_rstructure,
cmm_raccessibility, cmm_cdatetime) values (5, 'Decent experience, but it could be
cleaner, especially around the sinks where water accumulates.', 3, 2, 1, 1, NOW());
insert into comment (cmm_int_id, cmm_text, cmm_rclean, cmm_rpaper, cmm_rstructure,
cmm_raccessibility, cmm_cdatetime) values (6, 'Great overall! Clean, well-stocked, and
excellent accessibility features made my visit comfortable.', 5, 4, 5, 5, NOW());
insert into comment (cmm_int_id, cmm_text, cmm_rclean, cmm_rpaper, cmm_rstructure,
cmm_raccessibility, cmm_cdatetime) values (5, 'Good accessibility but lacking in
supplies. The paper towels were out, and the soap dispenser was low.', 3, 2, 2, 3,
NOW());
```

functime

A tabela **functime** gerencia os horários de funcionamento das casas de banho, permitindo que os usuários saibam quando um banheiro está acessível. Sua importância está em fornecer informações relevantes que ajudam os usuários a planejarem suas visitas.

ft_id	ft_toil_id	ft_day_id	ft_state_id	ft_timestart	ft_timeend	ft_cdate
1	1	1	1	09:00:00	15:00:00	2024-11-02
2	1	1	1	18:00:00	22:00:00	2024-11-02
3	2	2	2	09:00:00	17:00:00	2024-11-02
4	3	3	1	07:00:00	19:00:00	2024-11-02
5	4	4	2	06:00:00	20:00:00	2024-11-02
6	5	5	1	10:00:00	16:00:00	2024-11-02
7	6	1	1	08:00:00	14:00:00	2024-11-02
8	6	3	2	10:00:00	16:00:00	2024-11-02
9	7	2	1	09:30:00	15:30:00	2024-11-02
10	7	4	2	11:00:00	20:00:00	2024-11-02
11	8	5	1	12:00:00	18:00:00	2024-11-02
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Scripts - Create:

```
create table functime (
                    ft_id INT NOT NULL auto_increment,
                    ft_toil_id INT NOT NULL,
                    ft_day_id INT NOT NULL,
                    ft_state_id INT NOT NULL,
                    ft_timestart TIME NOT NULL,
                    ft_timeend TIME NOT NULL,
                    ft_cdate DATE NOT NULL,
                    primary key (ft_id)
);
```

Scripts - Populate:

```
insert into functime (ft_toil_id, ft_day_id, ft_state_id, ft_timestart, ft_timeend,
ft_cdate) values (1, 1, 1, '09:00:00', '15:00:00', CURDATE());
insert into functime (ft_toil_id, ft_day_id, ft_state_id, ft_timestart, ft_timeend,
ft_cdate) values (1, 1, 1, '18:00:00', '22:00:00', CURDATE());
insert into functime (ft_toil_id, ft_day_id, ft_state_id, ft_timestart, ft_timeend,
ft_cdate) values (2, 2, 2, '09:00:00', '17:00:00', CURDATE());
insert into functime (ft_toil_id, ft_day_id, ft_state_id, ft_timestart, ft_timeend,
ft_cdate) values (3, 3, 1, '07:00:00', '19:00:00', CURDATE());
insert into functime (ft_toil_id, ft_day_id, ft_state_id, ft_timestart, ft_timeend,
ft_cdate) values (4, 4, 2, '06:00:00', '20:00:00', CURDATE());
insert into functime (ft_toil_id, ft_day_id, ft_state_id, ft_timestart, ft_timeend,
ft_cdate) values (5, 5, 1, '10:00:00', '16:00:00', CURDATE());
insert into functime (ft_toil_id, ft_day_id, ft_state_id, ft_timestart, ft_timeend,
ft_cdate) values (6, 1, 1, '08:00:00', '14:00:00', CURDATE());
```

```
insert into functime (ft_toil_id, ft_day_id, ft_state_id, ft_timestart, ft_timeend,
ft_cdate) values (6, 3, 2, '10:00:00', '16:00:00', CURDATE());
insert into functime (ft_toil_id, ft_day_id, ft_state_id, ft_timestart, ft_timeend,
ft_cdate) values (7, 2, 1, '09:30:00', '15:30:00', CURDATE());
insert into functime (ft_toil_id, ft_day_id, ft_state_id, ft_timestart, ft_timeend,
ft_cdate) values (7, 4, 2, '11:00:00', '20:00:00', CURDATE());
insert into functime (ft_toil_id, ft_day_id, ft_state_id, ft_timestart, ft_timeend,
ft_cdate) values (8, 5, 1, '12:00:00', '18:00:00', CURDATE());
```

extra

A tabela **extra** relaciona características ou amenidades adicionais disponíveis em casas de banho, como fraldário ou acesso para deficientes. Essa tabela é importante para melhorar a experiência do usuário, fornecendo informações sobre o que cada banheiro oferece além do básico.

	extra_id	extra_toil_id	extra_tex_id
▶	1	1	1
	2	2	2
	3	3	3
	4	4	4
	5	5	5
*	NULL	NULL	NULL

Scripts - Create:

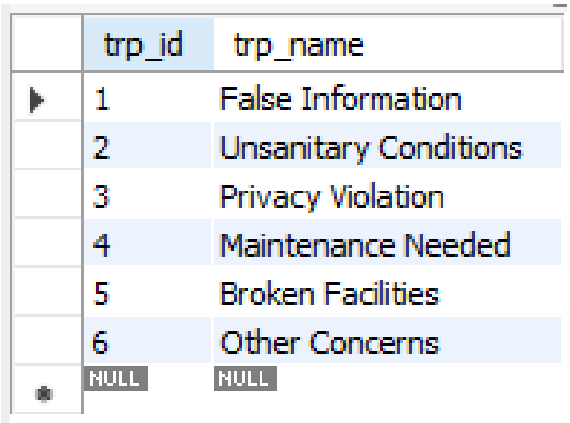
```
create table extra (
                    extra_id INT NOT NULL auto_increment,
                    extra_toil_id INT NOT NULL,
                    extra_tex_id INT NOT NULL,
                    primary key (extra_id)
);
```

Scripts - Populate:

```
insert into extra (extra_toil_id, extra_tex_id) values (1, 1);
insert into extra (extra_toil_id, extra_tex_id) values (2, 2);
insert into extra (extra_toil_id, extra_tex_id) values (3, 3);
insert into extra (extra_toil_id, extra_tex_id) values (4, 4);
insert into extra (extra_toil_id, extra_tex_id) values (5, 5);
```

typereport

A tabela `typereport` define os tipos de denúncias que os usuários podem fazer sobre as casas de banho. Isso é crucial para categorizar feedbacks e facilitar a análise.



trp_id	trp_name
1	False Information
2	Unsanitary Conditions
3	Privacy Violation
4	Maintenance Needed
5	Broken Facilities
6	Other Concerns
NULL	NULL

Scripts - Create:

```
create table typereport (
                    trp_id INT NOT NULL auto_increment,
                    trp_name VARCHAR(50) NOT NULL,
                    primary key (trp_id)
);
```

Scripts - Populate:

```
insert into typereport (trp_name) values ('False Information');
insert into typereport (trp_name) values ('Unsanitary Conditions');
insert into typereport (trp_name) values ('Privacy Violation');
insert into typereport (trp_name) values ('Maintenance Needed');
insert into typereport (trp_name) values ('Broken Facilities');
insert into typereport (trp_name) values ('Other Concerns');
```

typereaction

A tabela **typereaction** lista os tipos de reações que os usuários podem ter em relação a comentários. Sua importância é alta, pois permite a coleta de feedback qualitativo sobre as experiências dos usuários.

trc_id	trc_name
1	Liked
2	Disliked
3	Not Helpful
4	Misleading
5	Inappropriate
6	Offensive
7	Spam
8	Other Concerns
NULL	NULL

Scripts - Create:

```
create table typereaction (
                    trc_id INT NOT NULL auto_increment,
                    trc_name VARCHAR(50) NOT NULL,
                    primary key (trc_id)
);
```

Scripts - Populate:

```
insert into typereaction (trc_name) values ('Liked');
insert into typereaction (trc_name) values ('Disliked');
insert into typereaction (trc_name) values ('Not Helpful');
insert into typereaction (trc_name) values ('Misleading');
insert into typereaction (trc_name) values ('Inappropriate');
insert into typereaction (trc_name) values ('Offensive');
insert into typereaction (trc_name) values ('Spam');
insert into typereaction (trc_name) values ('Other Concerns');
```

typeextra

A tabela **typeextra** define os tipos de características ou amenidades adicionais que podem estar disponíveis nas casas de banho. É importante para categorizar e descrever os extras que um banheiro pode oferecer.

tex_id	tex_name
1	Wheelchair Accessible
2	Baby Changing Station
3	Handicap Parking
4	Visual Aids Available
5	Braille Signage
NULL	NULL

Scripts - Create:

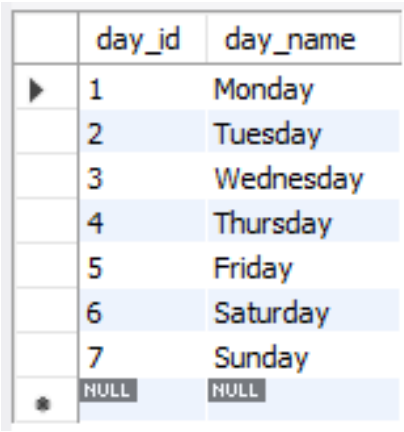
```
create table typeextra (
                    tex_id INT NOT NULL auto_increment,
                    tex_name VARCHAR(50) NOT NULL,
                    primary key (tex_id)
);
```

Scripts - Populate:

```
insert into typeextra (tex_name) values ('Wheelchair Accessible');
insert into typeextra (tex_name) values ('Baby Changing Station');
insert into typeextra (tex_name) values ('Handicap Parking');
insert into typeextra (tex_name) values ('Visual Aids Available');
insert into typeextra (tex_name) values ('Braille Signage');
```

day

A tabela **day** armazena informações sobre os dias da semana, o que é relevante para gerenciar horários de funcionamento. Sua importância está na estruturação dos horários de operação das casas de banho.



day_id	day_name
1	Monday
2	Tuesday
3	Wednesday
4	Thursday
5	Friday
6	Saturday
7	Sunday
NULL	NULL

Scripts - Create:

```
create table day (
                    day_id INT NOT NULL auto_increment,
                    day_name VARCHAR(50) NOT NULL,
                    primary key (day_id)
);
```

Scripts - Populate:

```
insert into day (day_name) values ('Monday');
insert into day (day_name) values ('Tuesday');
insert into day (day_name) values ('Wednesday');
insert into day (day_name) values ('Thursday');
insert into day (day_name) values ('Friday');
insert into day (day_name) values ('Saturday');
insert into day (day_name) values ('Sunday');
```

state

A tabela **state** armazena informações sobre estados, que podem estar relacionados ao status operacional dos banheiros. É fundamental para categorizar e descrever como as casas de banho estão operando em determinados momentos.

	state_id	state_name
▶	1	Available
	2	Closed
	3	Temporarily Closed
	4	In Maintenance
	5	Out of Order
*	NULL	NULL

Scripts - Create:

```
create table state (
                    state_id INT NOT NULL auto_increment,
                    state_name VARCHAR(50) NOT NULL,
                    primary key (state_id)
);
```

Scripts - Populate:

```
insert into state (state_name) values ('Available');
insert into state (state_name) values ('Closed');
insert into state (state_name) values ('Temporarily Closed');
insert into state (state_name) values ('In Maintenance');
insert into state (state_name) values ('Out of Order');
```

access

A tabela **access** define os tipos de acesso (público, privado e etc) disponíveis em casas de banho, permitindo que usuários com diferentes necessidades encontrem banheiros adequados. Sua importância está em promover inclusão e acessibilidade.

	acs_id	acs_name
▶	1	Public
	2	Private
	3	Consumers Only
*	NULL	NULL

Scripts - Create:

```
create table access (
                    acs_id int not null auto_increment,
                    acs_name VARCHAR(50) not null,
                    primary key (acs_id)
);
```

Scripts - Populate:

```
insert into access (acs_name) values ('Public');
insert into access (acs_name) values ('Private');
insert into access (acs_name) values ('Consumers Only');
```

city

A tabela **city** armazena informações sobre cidades onde as casas de banho estão localizados. É fundamental para a categorização geográfica dos banheiros, facilitando buscas e relatórios em diferentes áreas.

city_id	city_country_id	city_name
1	1	Lisbon
2	1	Porto
3	1	Braga
4	1	Coimbra
5	2	Madrid
6	2	Barcelona
7	2	Valencia
8	5	Rome
9	5	Milan
NULL	NULL	NULL

Scripts - Create:

```
create table city (
                    city_id INT NOT NULL auto_increment,
                    city_country_id INT NOT NULL,
                    city_name VARCHAR(50) NOT NULL,
                    primary key (city_id)
);
```

Scripts - Populate:

```
insert into city (city_country_id, city_name) values (1, 'Lisbon');
insert into city (city_country_id, city_name) values (1, 'Porto');
insert into city (city_country_id, city_name) values (1, 'Braga');
insert into city (city_country_id, city_name) values (1, 'Coimbra');
insert into city (city_country_id, city_name) values (2, 'Madrid');
insert into city (city_country_id, city_name) values (2, 'Barcelona');
insert into city (city_country_id, city_name) values (2, 'Valencia');
insert into city (city_country_id, city_name) values (5, 'Rome');
insert into city (city_country_id, city_name) values (5, 'Milan');
```

country

A tabela **country** contém informações sobre países e é essencial para a estrutura geográfica do sistema. Ela possibilita a organização dos dados de cidade e, por consequência, das casas de banho.

	country_id	country_name
▶	1	Portugal
	2	Spain
	3	France
	4	Germany
	5	Italy
	6	Brazil
	7	United States
	8	Australia
*	NULL	NULL

Scripts - Create:

```
create table country (
                    country_id INT NOT NULL auto_increment,
                    country_name VARCHAR(50) NOT NULL,
                    primary key (country_id)
);
```

Scripts - Populate:

```
insert into country (country_name) values ('Portugal');
insert into country (country_name) values ('Spain');
insert into country (country_name) values ('France');
insert into country (country_name) values ('Germany');
insert into country (country_name) values ('Italy');
insert into country (country_name) values ('Brazil');
insert into country (country_name) values ('United States');
insert into country (country_name) values ('Australia');
```