

1. Insert a customer

Actor: New User

Precondition: User must not already be signed up

Postcondition: customer table is updated with new user information

Queries:

insert into customer

```
(customer_id, customer_firstname, customer_lastname, customer_username,  
customer_password, customer_email, customer_date_joined)  
values (1, 'Lillian', 'Porter', 'lporter0', 'x9N78mr6oMsG', 'lporter0@com.com', '6/24/2015');
```

insert into customer

```
(customer_id, customer_firstname, customer_lastname, customer_username,  
customer_password, customer_email, customer_date_joined)  
values (2, 'Judy', 'Nelson', 'jnelson1', 'f4yh0Jf', 'jnelson1@vimeo.com', '5/9/2015');
```

insert into customer

```
(customer_id, customer_firstname, customer_lastname, customer_username,  
customer_password, customer_email, customer_date_joined)  
values (3, 'Kevin', 'Torres', 'ktorres2', 'A0nlQLs7', 'ktorres2@mit.edu', '1/15/2016');
```

insert into customer

```
(customer_id, customer_firstname, customer_lastname, customer_username,  
customer_password, customer_email, customer_date_joined)  
values (4, 'Bonnie', 'Gonzales', 'bgonzales3', 'zgAmy0Gju', 'bgonzales3@spotify.com',  
'7/15/2015');
```

insert into customer

```
(customer_id, customer_firstname, customer_lastname, customer_username,  
customer_password, customer_email, customer_date_joined)  
values (5, 'Jack', 'Lawson', 'jlawson4', 'ZBOtO6M', 'jlawson4@chicagotribune.com', '5/20/2015');
```

insert into customer

```
(customer_id, customer_firstname, customer_lastname, customer_username,  
customer_password, customer_email, customer_date_joined)  
values (6, 'Ralph', 'Peters', 'rpeters5', '0qReQZ', 'rpeters5@mapy.cz', '8/27/2015');
```

insert into customer

```
(customer_id, customer_firstname, customer_lastname, customer_username,  
customer_password, customer_email, customer_date_joined)  
values (7, 'Joe', 'Knight', 'jknight6', '0b5C7KS46', 'jknight6@over-blog.com', '6/3/2015');
```

insert into customer

```
(customer_id, customer_firstname, customer_lastname, customer_username,  
customer_password, customer_email, customer_date_joined)  
values (8, 'Tina', 'Young', 'tyoung7', '9kSpDumOOYi', 'tyoung7@hc360.com', '7/21/2015');
```

insert into customer

```
(customer_id, customer_firstname, customer_lastname, customer_username,  
customer_password, customer_email, customer_date_joined)  
values (9, 'Joshua', 'King', 'jking8', '9snRBI2N', 'jking8@behance.net', '10/30/2015');
```

insert into customer

```
(customer_id, customer_firstname, customer_lastname, customer_username,  
customer_password, customer_email, customer_date_joined)  
values (10, 'Michael', 'Sims', 'msims9', 'nv4EZqKKK', 'msims9@google.com.au', '8/19/2015');
```

2. Insert an administrator

Actor: Preexisting Admin

Precondition: Admin must be logged in

Postcondition: Admin table is updated with new admin information

Queries:

```
insert into admin
(admin_id, admin_firstname, admin_lastname, admin_username, admin_password,
admin_email, admin_date_joined)
values (1, 'Michael', 'Day', 'mday0', 'c71dqzK7YjU', 'mday0@scribd.com', '9/9/2015');
insert into admin
(admin_id, admin_firstname, admin_lastname, admin_username, admin_password,
admin_email, admin_date_joined)
values (2, 'Stephanie', 'Diaz', 'sdiaz1', 'TzshNPo4W', 'sdiaz1@nih.gov', '8/22/2015');
insert into admin
(admin_id, admin_firstname, admin_lastname, admin_username, admin_password,
admin_email, admin_date_joined)
values (3, 'Wanda', 'Harper', 'wharper2', '4HhMdP', 'wharper2@hugedomains.com', '5/17/2015');
insert into admin
(admin_id, admin_firstname, admin_lastname, admin_username, admin_password,
admin_email, admin_date_joined)
values (4, 'Thomas', 'Medina', 'tmedina3', 'yXmL8TVw', 'tmedina3@archive.org', '4/2/2016');
insert into admin
(admin_id, admin_firstname, admin_lastname, admin_username, admin_password,
admin_email, admin_date_joined)
values (5, 'Antonio', 'Warren', 'awarren4', 'LXqZqJ', 'awarren4@fc2.com', '3/17/2016');
```

3. Insert a professor

Actor: Admin

Precondition: Admin must be logged in

Postcondition: Professor table is updated with new professor information

Queries:

```
insert into professor
(professor_id, professor_firstname, professor_lastname, department_id, professor_date_added)
values (1, 'Paula', 'Woods', 9, '4/14/2016');
insert into professor
(professor_id, professor_firstname, professor_lastname, department_id, professor_date_added)
values (2, 'Jesse', 'Martinez', 7, '7/20/2015');
insert into professor
(professor_id, professor_firstname, professor_lastname, department_id, professor_date_added)
values (3, 'Anthony', 'Green', 10, '3/28/2016');
insert into professor
(professor_id, professor_firstname, professor_lastname, department_id, professor_date_added)
values (4, 'Eric', 'Graham', 12, '9/4/2015');
insert into professor
(professor_id, professor_firstname, professor_lastname, department_id, professor_date_added)
values (5, 'Brenda', 'Ramos', 9, '10/30/2015');
insert into professor
(professor_id, professor_firstname, professor_lastname, department_id, professor_date_added)
values (6, 'Maria', 'Jackson', 4, '10/15/2015');
insert into professor
(professor_id, professor_firstname, professor_lastname, department_id, professor_date_added)
values (7, 'Gloria', 'Bowman', 6, '6/7/2015');
insert into professor
(professor_id, professor_firstname, professor_lastname, department_id, professor_date_added)
values (8, 'Howard', 'Morris', 9, '3/26/2016');
insert into professor
(professor_id, professor_firstname, professor_lastname, department_id, professor_date_added)
values (9, 'Brian', 'Gordon', 10, '5/10/2015');
insert into professor
(professor_id, professor_firstname, professor_lastname, department_id, professor_date_added)
values (10, 'Robert', 'Nichols', 5, '8/16/2015');
```

4. Insert a department

Actor: Admin

Precondition: Admin must be logged in

Postcondition: Department table is updated with new department information

Queries:

```
insert into department (department_id, department_name) values (1, 'Computer Science');
```

```
insert into department (department_id, department_name) values (2, 'Mathematics');
```

```
insert into department (department_id, department_name) values (3, 'Chemistry');
```

```
insert into department (department_id, department_name) values (4, 'Physics');
```

```
insert into department (department_id, department_name) values (5, 'Biology');
```

5. Insert a class

Actor: Admin

Precondition: Admin must be logged in

Postcondition: Class table is updated with new class information

Queries:

```
insert into class (class_id, class_name, class_description, class_date_added) values (1, 'CS II');
```

```
insert into class (class_id, class_name, class_description, class_date_added) values (2, 'Calc I');
```

```
insert into class (class_id, class_name, class_description, class_date_added) values (3, 'Organic Chemistry');
```

```
insert into class (class_id, class_name, class_description, class_date_added) values (4, 'Intro to Atomic Physics');
```

```
insert into class (class_id, class_name, class_description, class_date_added) values (5, 'Molecular Theory');
```

6. Insert a book

Actor: Admin

Precondition: Admin must be logged in

Postcondition: Book table is updated with new book information

Queries:

```
insert into book (book_id, book_name, category_id, book_description,
book_date_added)
values (1, 'Study of Algorithms', 1, 'A dummy introduction to Algorithms using Java', '4/14/2016');
insert into book (book_id, book_name, category_id, book_description,
book_date_added)
values (2, 'Derivates & Integrals', 2, 'A friendly introduction to calculus', '7/20/2015');
insert into book (book_id, book_name, category_id, book_description,
book_date_added)
values (3, 'Organic Chemistry', 3, 'NY times best seller. Garenteed to weed out the bad premed
students', '3/28/2016');
insert into book (book_id, book_name, category_id, book_description,
book_date_added) values (4, 'Atomic Physics thru a Mathematician\'s Eyes', 4, '', '9/4/2015');
insert into book (book_id, book_name, category_id, book_description,
book_date_added)
values (5, 'Molecular Biology', 5, '', '0/30/2015');
```

7. Remove a book

Actor: Admin

Precondition: Admin must be logged in

Postcondition: Book table is updated with the removal of a book

Queries:

```
delete from book where book_id = 1;
delete from book where book_id = 2;
delete from book where book_id = 3;
delete from book where book_id = 4;
delete from book where book_id = 5;
```

8. Remove a user

Actor: Admin

Precondition: Admin must be logged in

Postcondition: Customer table is updated with the removal of a customer

Queries:

```
delete from customer where customer_id = 1;
delete from customer where customer_id = 2;
delete from customer where customer_id = 3;
delete from customer where customer_id = 4;
delete from customer where customer_id = 5;
delete from customer where customer_id = 6;
delete from customer where customer_id = 7;
delete from customer where customer_id = 8;
delete from customer where customer_id = 9;
delete from customer where customer_id = 10;
```

9. Insert a transaction

Actor: Customer

Precondition: Customer must be logged in

Postcondition: Transaction table is updated with new transaction information

Queries:

```
insert into transaction (transaction_id, classBook_id, sender_id, reciever_id,
transaction_date, transaction_type)
values (1, 1, 1, null, now(), 'rent');
insert into transaction (transaction_id, classBook_id, sender_id, reciever_id,
transaction_date, transaction_type)
values (2, 2, 2, null, now(), 'rent');
insert into transaction (transaction_id, classBook_id, sender_id, reciever_id,
transaction_date, transaction_type)
values (3, 3, 3, null, now(), 'rent');
insert into transaction (transaction_id, classBook_id, sender_id, reciever_id,
transaction_date, transaction_type)
values (4, 4, 4, null, now(), 'sell');
insert into transaction (transaction_id, classBook_id, sender_id, reciever_id,
transaction_date, transaction_type)
values (5, 5, 5, null, now(), 'sell');
insert into transaction (transaction_id, classBook_id, sender_id, reciever_id,
transaction_date, transaction_type)
values (6, 1, 6, null, now(), 'sell');
insert into transaction (transaction_id, classBook_id, sender_id, reciever_id,
transaction_date, transaction_type)
values (7, 2, 7, null, now(), 'swap');
```

```
insert into transaction (transaction_id, classBook_id, sender_id, reciever_id, transaction_date,  
transaction_type)
```

```
values (8, 3, 8, null, now(), 'swap');
```

```
insert into transaction (transaction_id, classBook_id, sender_id, reciever_id, transaction_date,  
transaction_type)
```

```
values (9, 4, 9, null, now(), 'swap');
```

```
insert into transaction (transaction_id, classBook_id, sender_id, reciever_id, transaction_date,  
transaction_type)
```

```
values (10, 5, 10, null, now(), 'swap');
```