

Method Name: Login button

Class Name: Login User

ID: 01

Clients: Users

Associated Use case: Login booking

Description of Responsibilities: Username and password information should retrieve ~~data~~ user from databax and they should not be null.

Arguments Received: As a response, it receives an object and this object contains the user information like the user name and encrypted password.

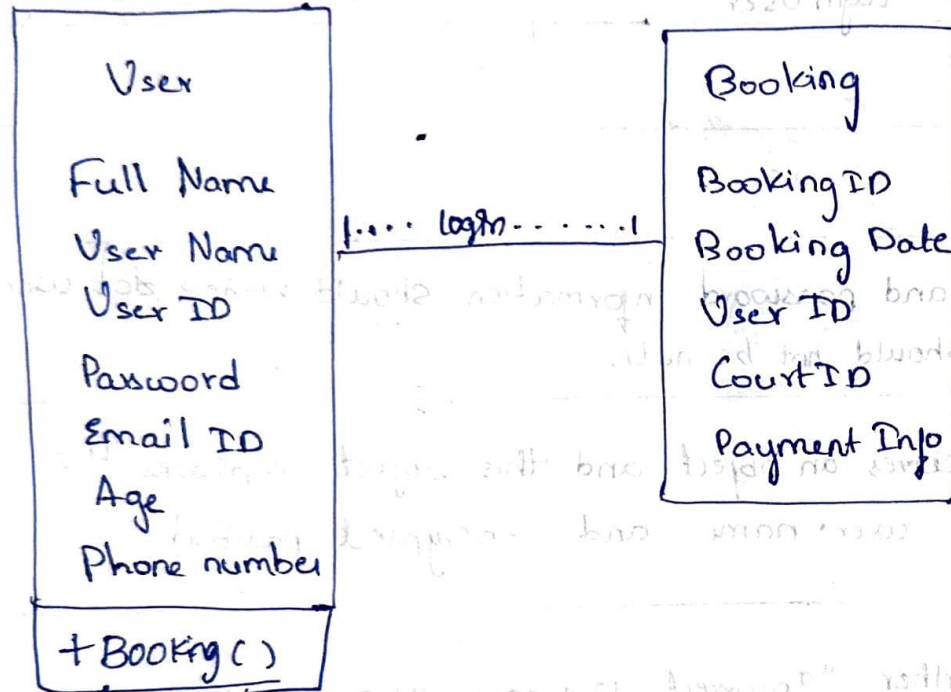
Type of value Returned: It will return either "Incorrect Username or password" i.e. Notfound or OK which is "Logged successfully"; and it returns 500 to 400 status accordingly.

Pre-Condition: User name and the password must not be null as per the pre-condition.

Post-Condition: To verify if the respective user is existing in the database, we must check if  $i > 0$ ;

In the above condition,  $i$  refers to the number of rows returned from the databax for the given Username and User password.

## Class diagram



```
<<Invariant>>
{ user : user() = us · usc }
```

## Team Members

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//method for the login to application:

@Entity

public class LoginUser {

    @Id

    @GeneratedValue(strategy=GenerationType.IDENTITY)

    public int userId;

    public String userName;

    public String Password;

    public String emailId;

    @OneToMany(fetch = FetchType.EAGER, cascade = CascadeType.ALL, mappedBy = "user")

    private List<Booking> bookings ;

//Pre condition for this method:

@RequestMapping(value = "/userlogin")

    public String userloginpage(Model model, @ModelAttribute("user") User user) {

        List<User> users = userservice.getUsers();

        List<User> us = new ArrayList<User>();

        System.out.println(user.getUserName() + user.getPassword());

        List<User> user1 = users.stream()

            .filter(e -> e.getUserName().equals(user.getUserName()) && e.getPassword().equals(user.getPassword()))

            .collect(Collectors.toList());

        for (User u : user1) {

//post condition for this method.

            if ((u.getUserName().equals(user.getUserName()) && u.getPassword().equals(user.getPassword()))) {

                userId = u.getUserId();

                for (User usl : users) {

                    if (usl.getUserId() == userId) {

                        us.add(usl);

                    }

                }

//Invariant for this condition

        model.addAttribute("us", us);

    }

}

    return "homepage";

}