Deliverable 1 UMPLE Code:

```
class Login
{
  String username;
  String password;
}

class Account
{
  * -- 1 Login;
  String username;
  String password;

  1 -- 1 User;
}

class User
{
  String lastName;
  String firstName;
  Date dateOfBirth;

  String email;
  String phoneNum;
  String address;

}

class Administrator
{
  isA User;
}

class Service_Provider
{
  isA User;
}

class Homeowner
{
  isA User;
}
```
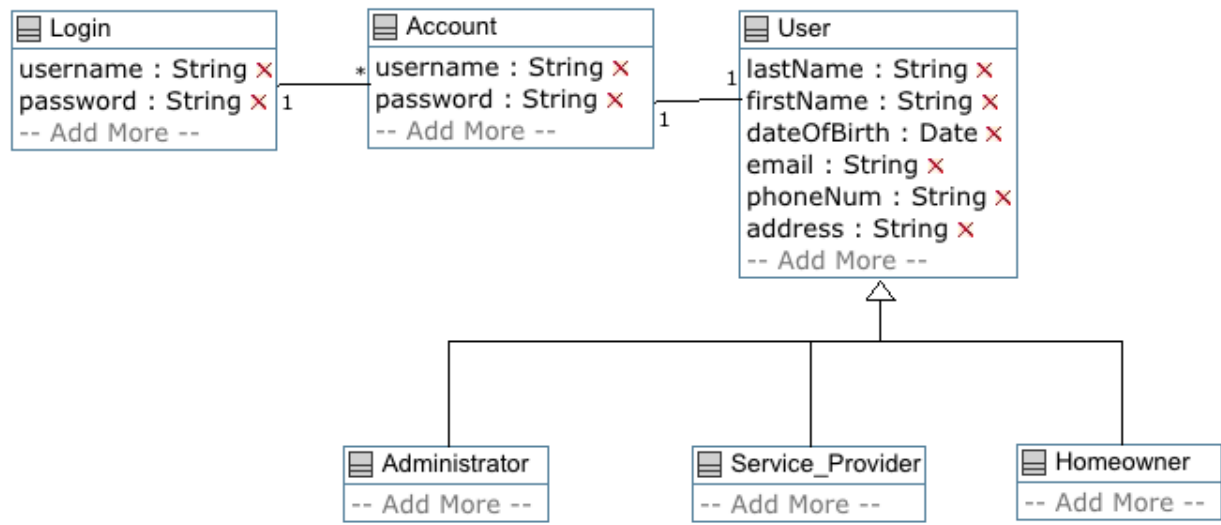
Login
username : String ✕
password : String ✕
-- Add More --

Account
username : String ✕
password : String ✕
-- Add More --

User
lastName : String ✕
firstName : String ✕
dateOfBirth : Date ✕
email : String ✕
phoneNum : String ✕
address : String ✕
-- Add More --

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Administrator
-- Add More --

Service_Provider
-- Add More --

Homeowner
-- Add More --

Deliverable2:
The administrator can:
1. Create services (at least 10) to be offered: The list of services may include: Appliance install, carpet cleaning, moving, plumbing, appliance repair, Furniture assembly, Locksmith, painting, window cleaning, Electrical, Mould Remediation, Pest control, Junk Removal, Handyman services.
2. Specifies a rate per hour for the services created.

Code:

```
class Login
{
  String username;
  String password;
}

class Account
{
  * -- 1 Login;
  String username;
  String password;

  1 -- 1 User;
}

class User
{
  String lastName;
  String firstName;
  Date dateOfBirth;

  String email;
  String phoneNum;
  String address;

}

class Administrator
{
  isA User;
}

class Service_Provider
{
  isA User;
}

class Homeowner
{
  isA User;
}
```

```
class Service
{
  String serviceId;
  String typeOfService;
  double hourRate;
  * -- 1..* Administrator;
}
```

Login
username : String ✕
password : String ✕
-- Add More --

Account
username : String ✕
password : String ✕
-- Add More --

*

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User
lastName : String ✕
firstName : String ✕
dateOfBirth : Date ✕
email : String ✕
phoneNum : String ✕
address : String ✕
-- Add More --

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Service_Provider
-- Add More --

Homeowner
-- Add More --

Administrator
-- Add More --

1..*

*

Service
serviceId : String ✕
typeOfService : String ✕
hourRate : double ✕
-- Add More --