Cairo University
Faculty of Computers and Artificial Intelligence
Software Engineering Program
Software Design and Architecture

Software Design Specification
2021 – 2022

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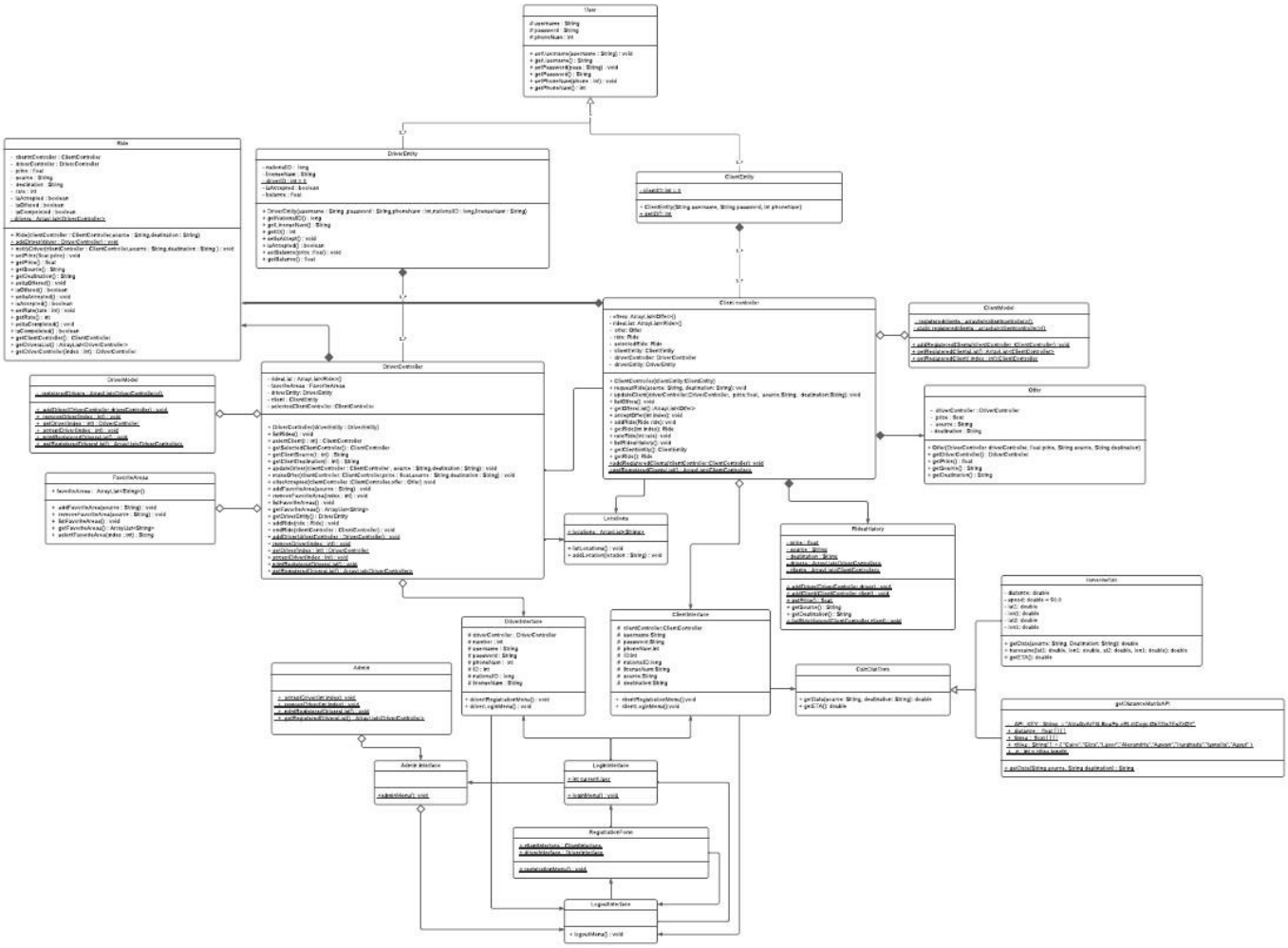
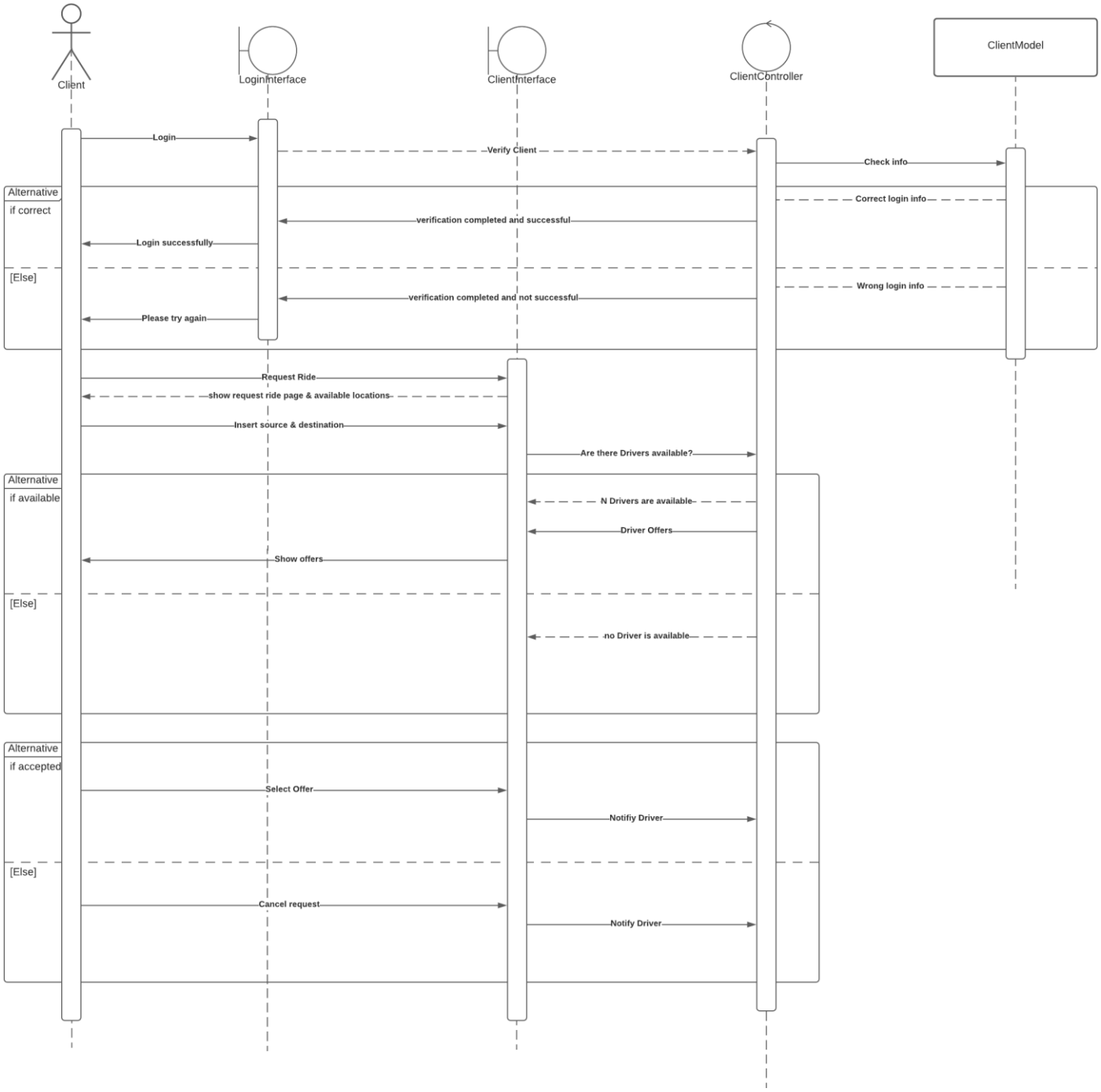
⇒ Class Diagram Design

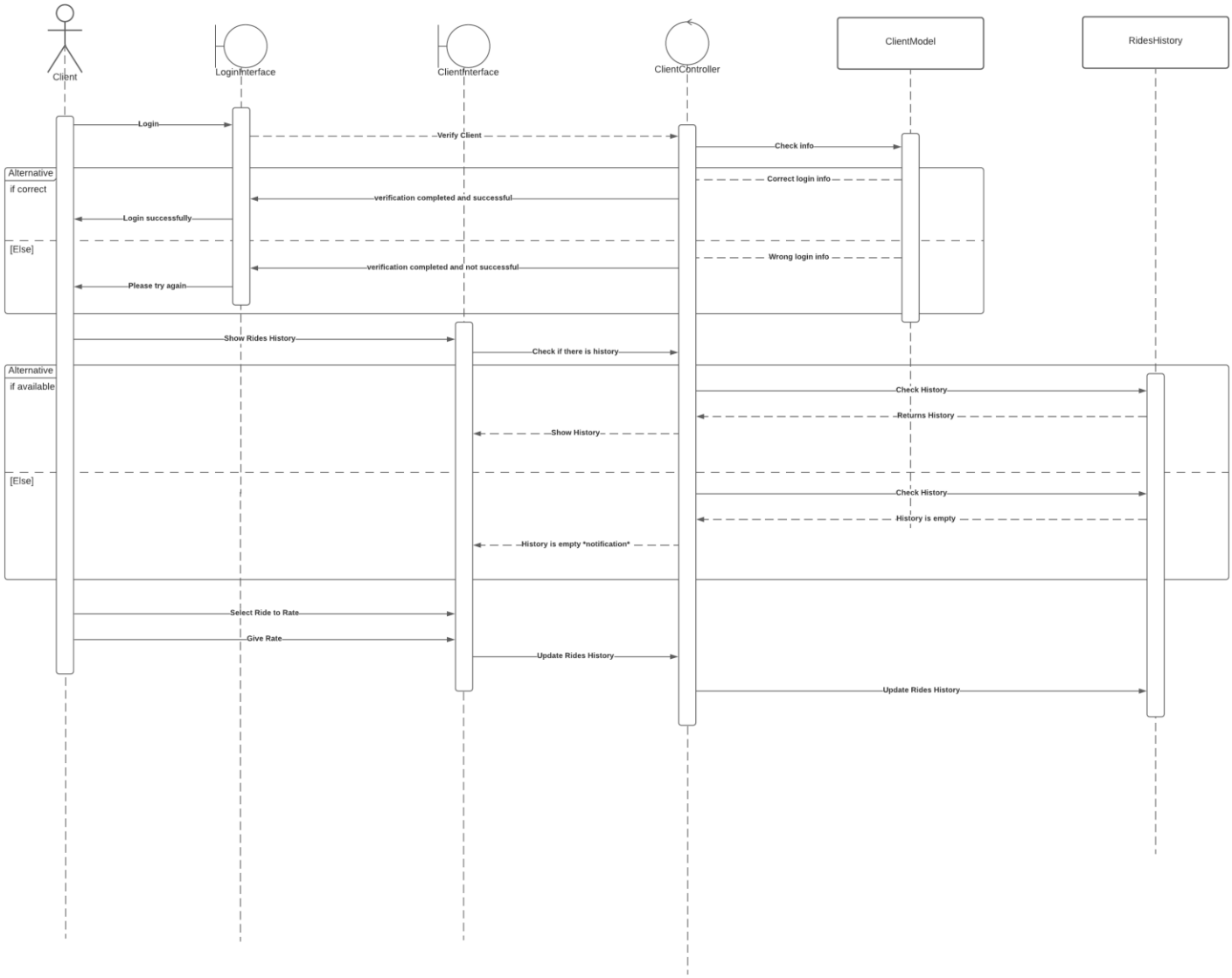


⇒ Sequence Diagram Design

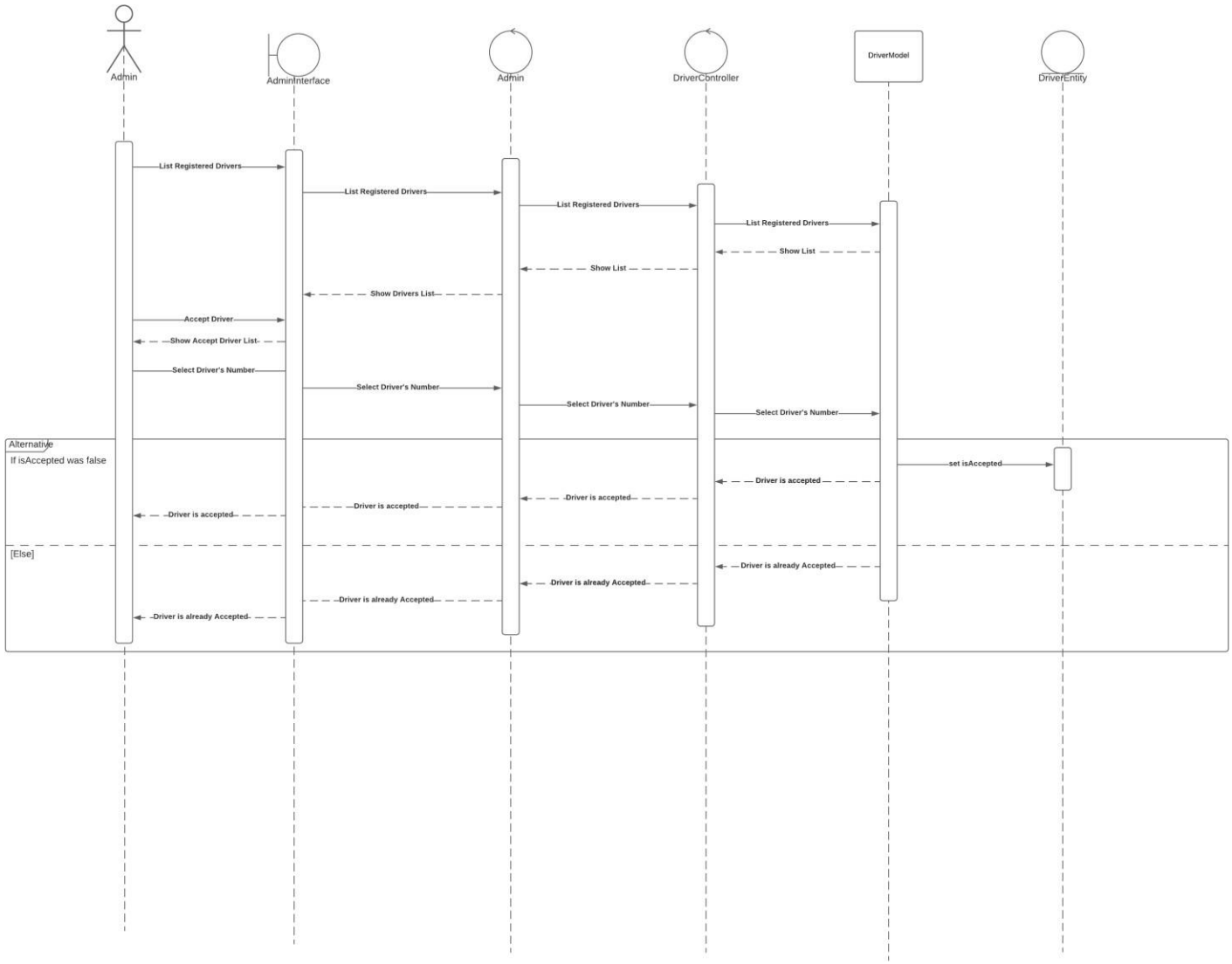
- **Sequence 1**



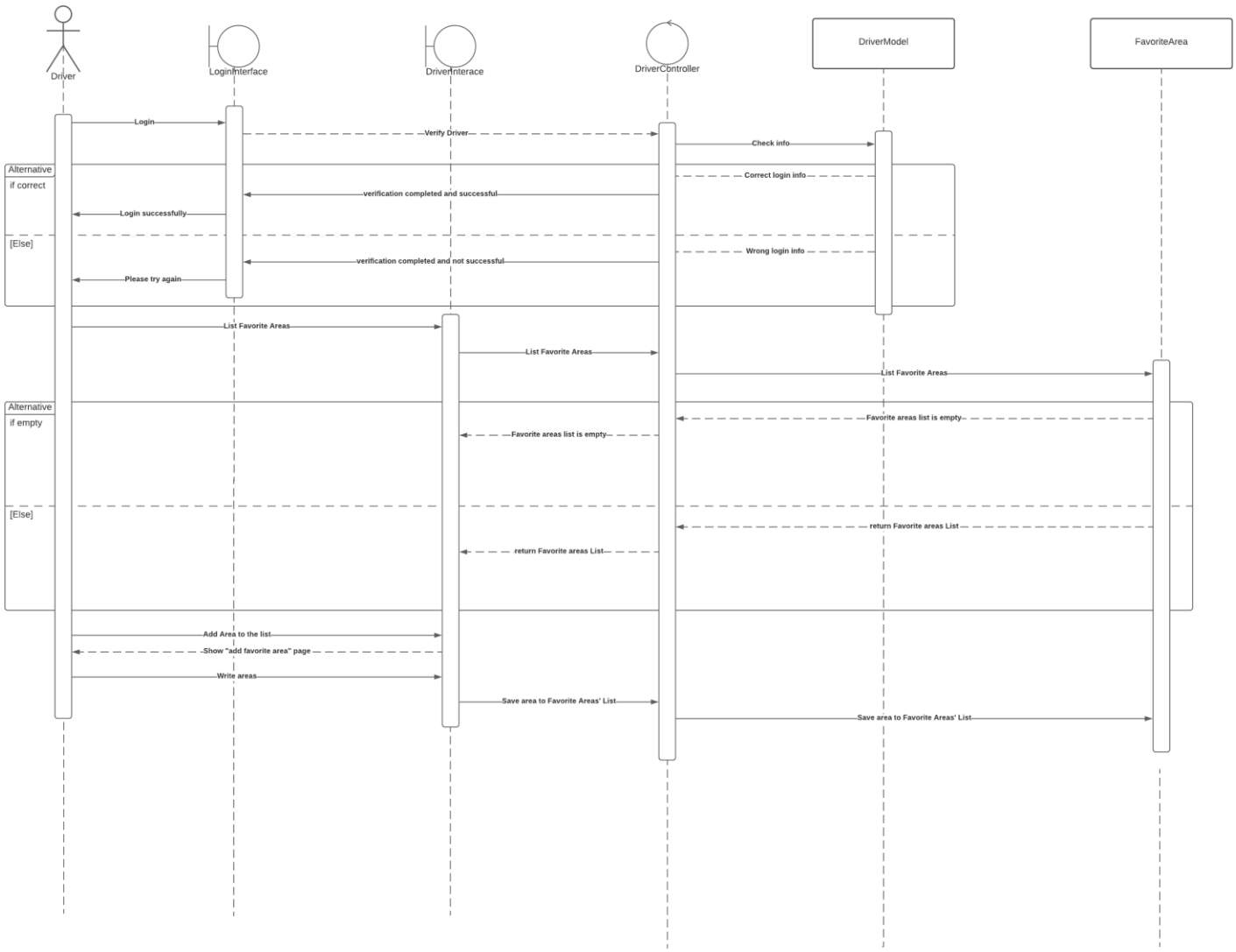
- **Sequence 2**


Client
LoginInterface
ClientInterface
ClientController
ClientModel
RidesHistory
Login
Verify Client
Check info
Alternative
if correct
Correct login info
verification completed and successful
Login successfully
[Else]
Wrong login info
verification completed and not successful
Please try again
Show Rides History
Check if there is history
Alternative
if available
Check History
Returns History
Show History
[Else]
Check History
History is empty
History is empty *notification*
Select Ride to Rate
Give Rate
Update Rides History
Update Rides History

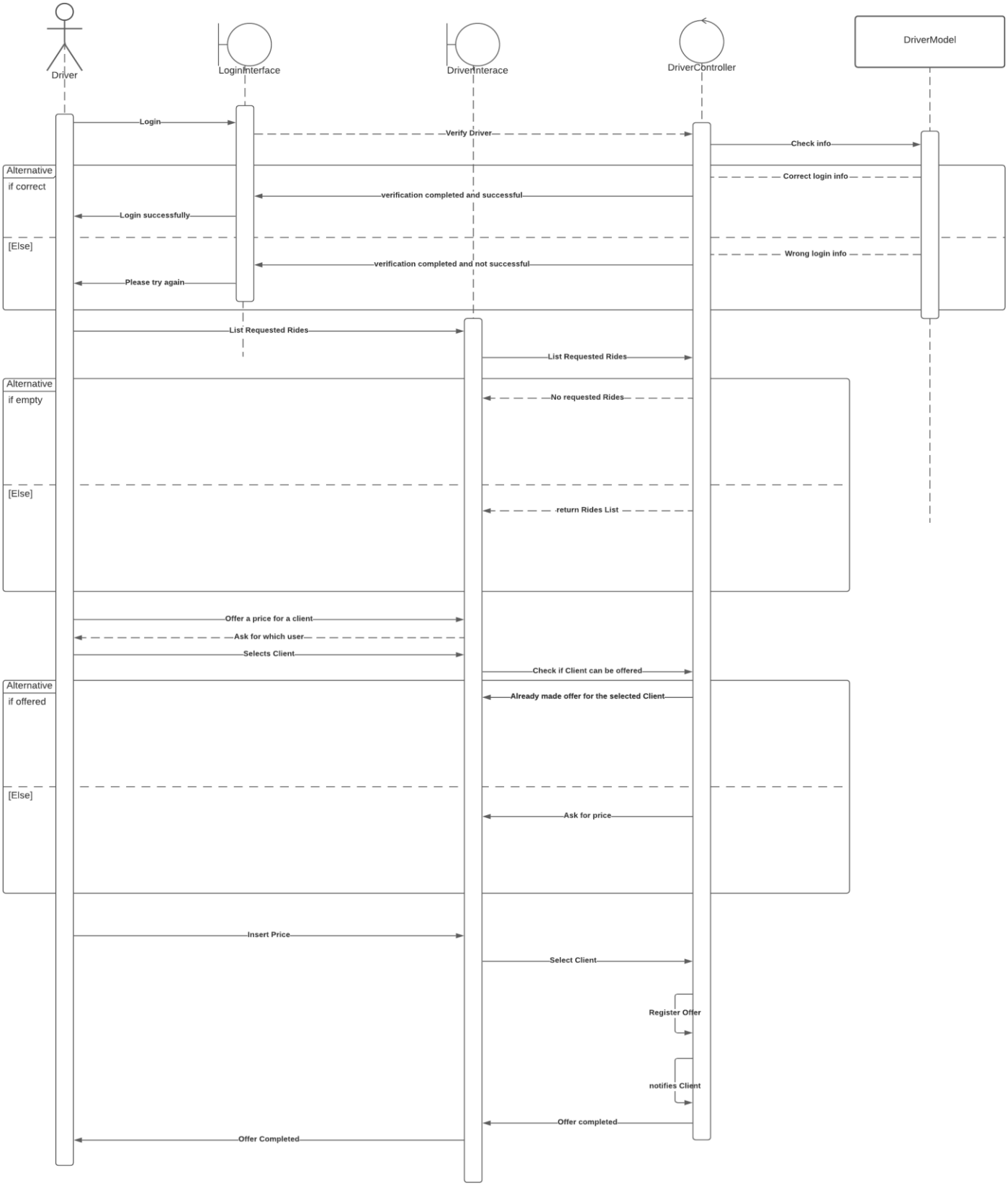
- **Sequence 3**


Admin
AdminInterface
Admin
DriverController
DriverModel
DriverEntity
List Registered Drivers
List Registered Drivers
List Registered Drivers
List Registered Drivers
Show List
Show List
Show Drivers List
Accept Driver
Show Accept Driver List
Select Driver's Number
Select Driver's Number
Select Driver's Number
Select Driver's Number
Alternative
If isAccepted was false
set isAccepted
Driver is accepted
Driver is accepted
Driver is accepted
Driver is accepted
[Else]
Driver is already Accepted
Driver is already Accepted
Driver is already Accepted
Driver is already Accepted

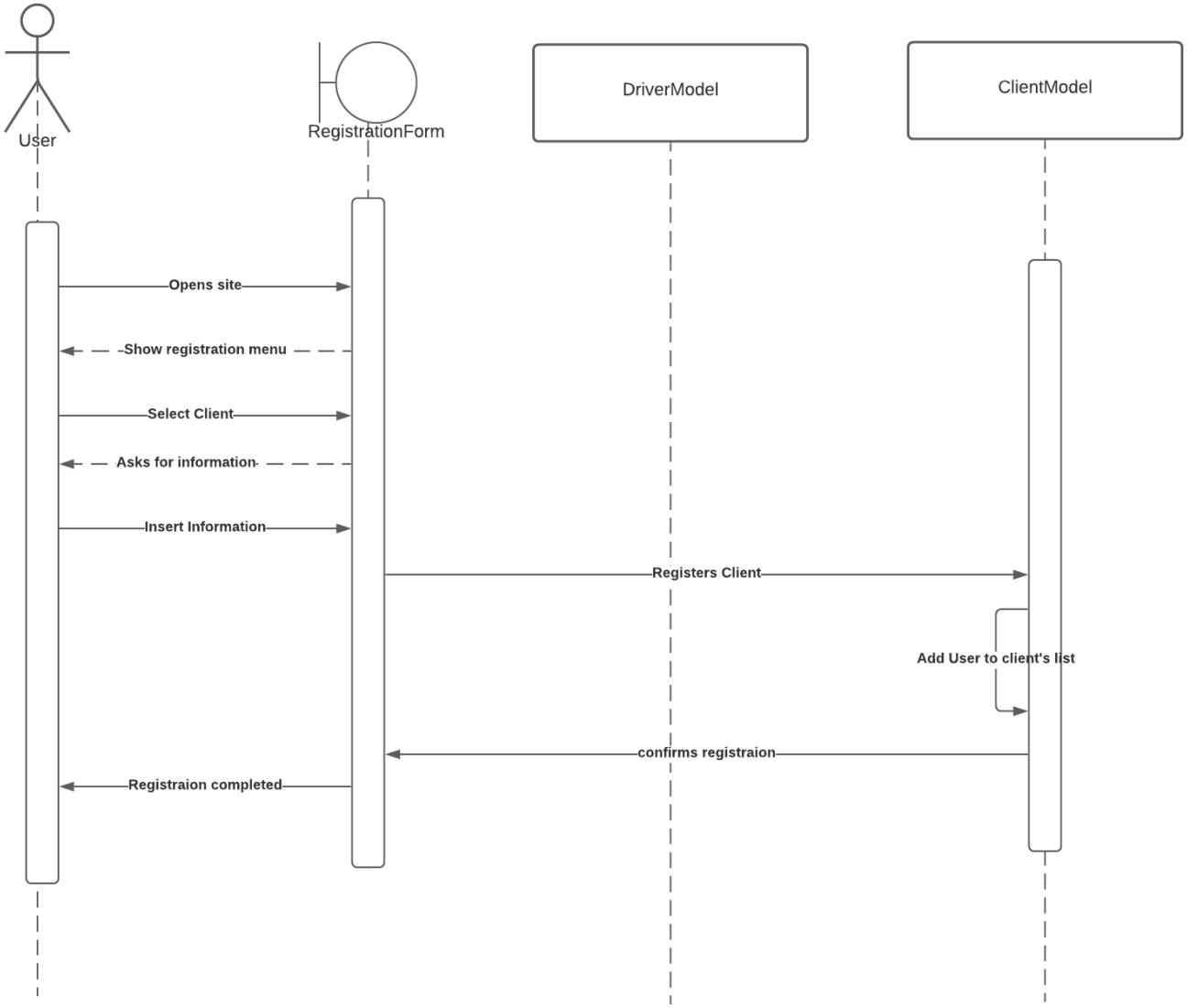
- **Sequence 4**


Driver
LoginInterface
DriverInterace
DriverController
DriverModel
FavoriteArea
Login
Verify Driver
Check info
Alternative
if correct
Correct login info
verification completed and successful
Login successfully
[Else]
Wrong login info
verification completed and not successful
Please try again
List Favorite Areas
List Favorite Areas
List Favorite Areas
Alternative
if empty
Favorite areas list is empty
Favorite areas list is empty
[Else]
return Favorite areas List
return Favorite areas List
Add Area to the list
Show "add favorite area" page
Write areas
Save area to Favorite Areas' List
Save area to Favorite Areas' List

- **Sequence 5**

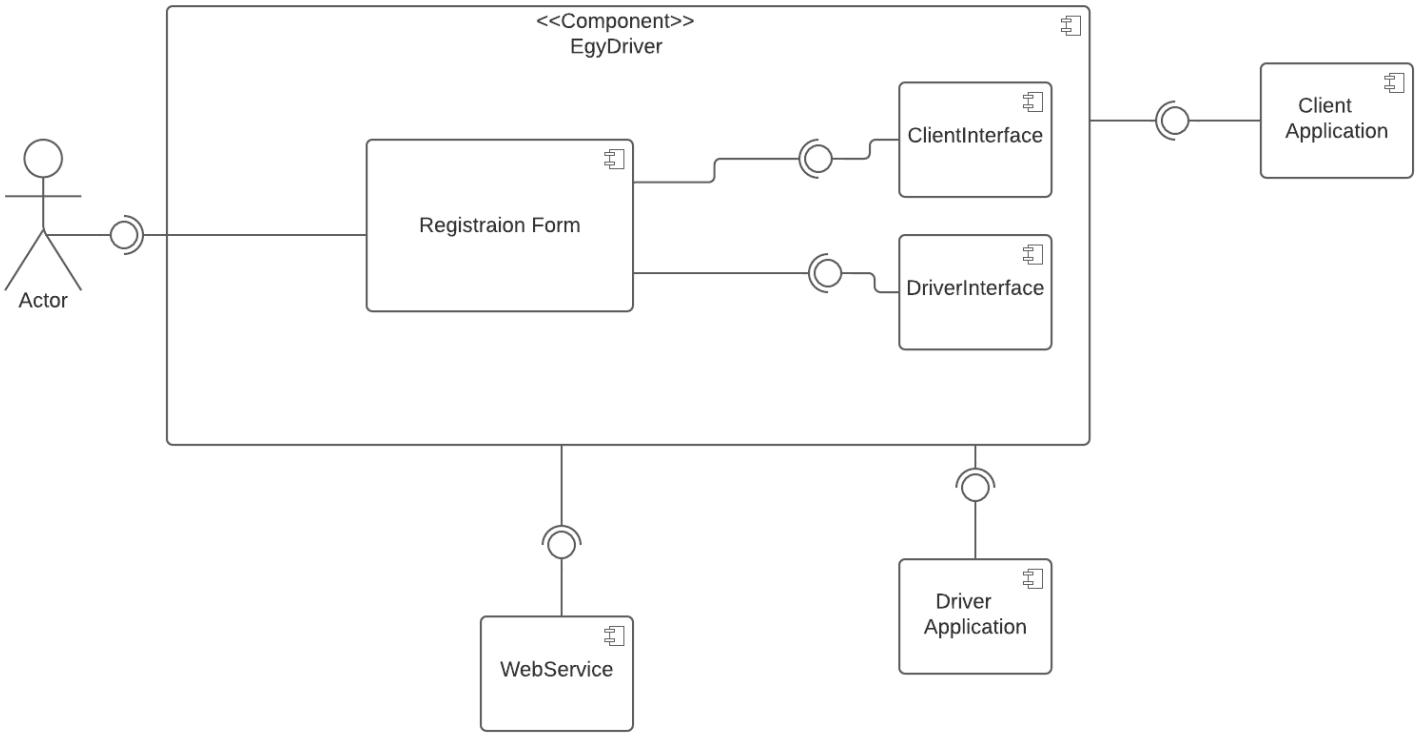

Driver
LoginInterface
DriverInterace
DriverController
DriverModel
Login
Verify Driver
Check info
Alternative
if correct
Correct login info
verification completed and successful
Login successfully
[Else]
Wrong login info
verification completed and not successful
Please try again
List Requested Rides
List Requested Rides
Alternative
if empty
No requested Rides
[Else]
return Rides List
Offer a price for a client
Ask for which user
Selects Client
Check if Client can be offered
Alternative
if offered
Already made offer for the selected Client
[Else]
Ask for price
Insert Price
Select Client
Register Offer
notifies Client
Offer completed
Offer Completed

- **Sequence 6:**


User
RegistrationForm
DriverModel
ClientModel
Opens site
Show registration menu
Select Client
Asks for information
Insert Information
Registers Client
Add User to client's list
confirms registraion
Registraion completed

- **Sequence 6:**

⇒ Component Diagram



⇒ GitHub Repository Link

GitHub Link: https://github.com/AhmedHatem001/EgyDriver