<Cluj City Hall>
Analysis and Design Document

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Revision History

Date	Version	Description	Author
<24/MAR/19>	<1.0>	<city hall app>	<Chitanu Stefan>

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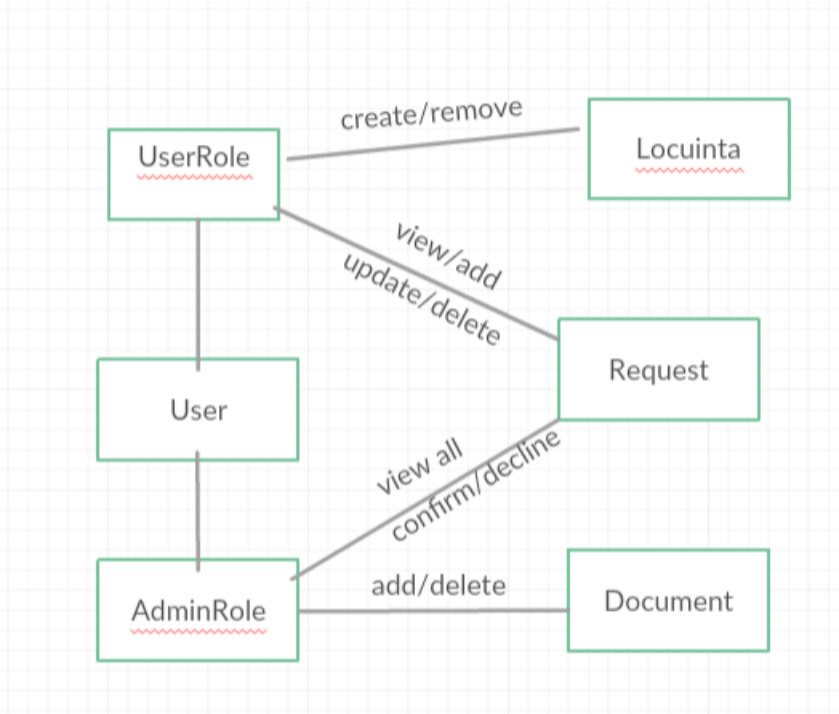
I. Project Specification

Proiectul reprezinta o aplicatie in limbajul Java pentru un sistem online de emitere a unor documente de la primaria Cluj-Napoca.. Fiecare cetatean poate cere maxim 3 documente de acelasi tip pentru fiecare locuinta inregistrata. Exista doua tipuri de utilizatori: User(Register/Login, Add/Remove locuinta, view requests, create request, update/delete request) si administrator(view all users, create/remove documents, view all requests, confirm/delete requests)

II. Elaboration – Iteration 1.1

1. Domain Model

Model: User, Locuinta, Request, Document



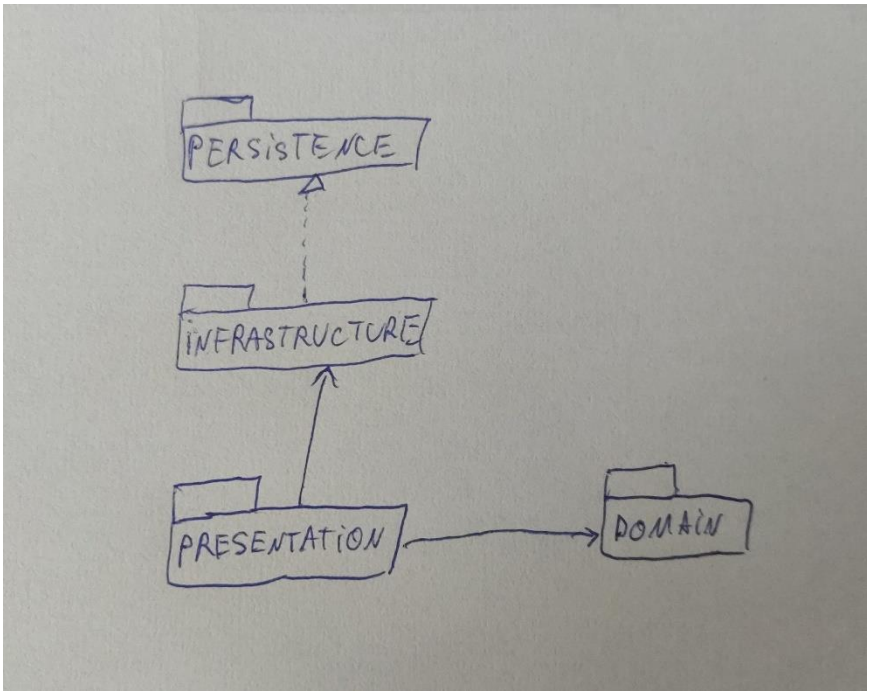
2. Architectural Design

2.1 Conceptual Architecture

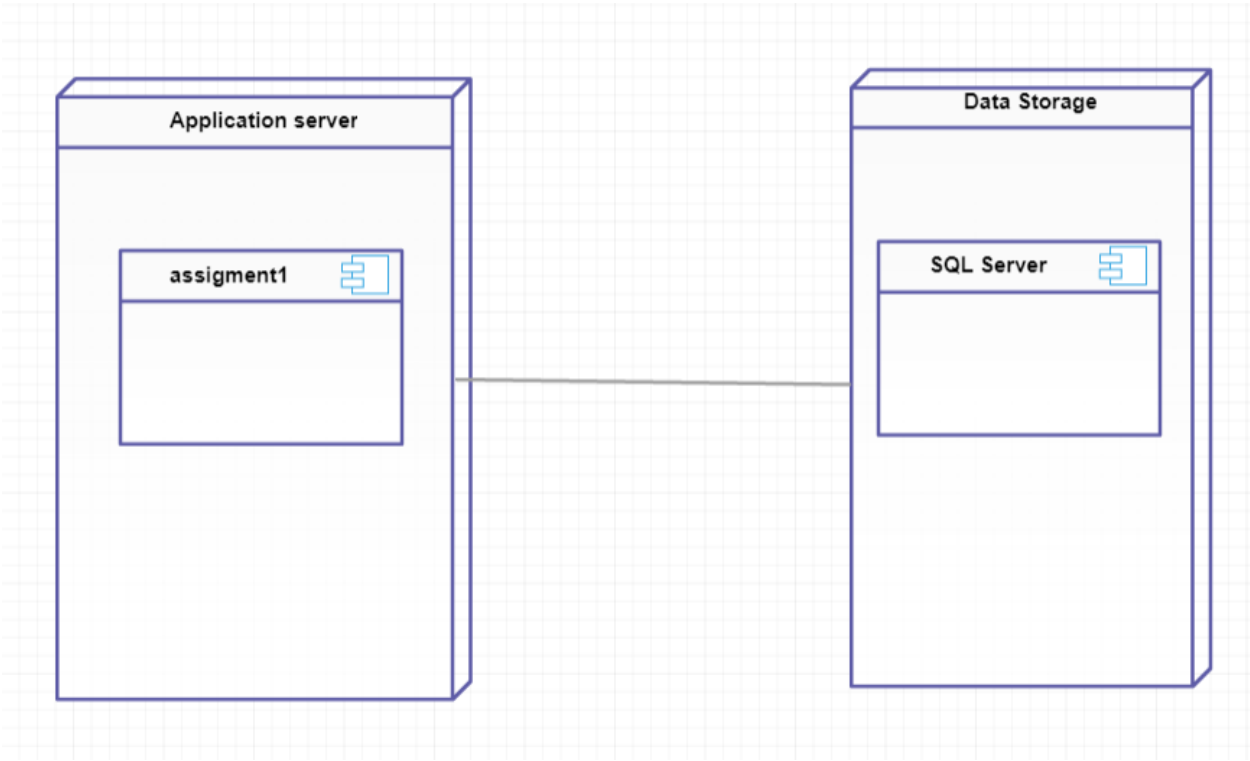
Aplicatia foloseste pattern-ul architectural Layers, aceasta imparte aplicatia in prezentare, procesare si data management. De asemenea aceasta arhitectura imbunatateste timpul de raspuns al aplicatiei.

2.2 Package Design

[Create a package diagram]



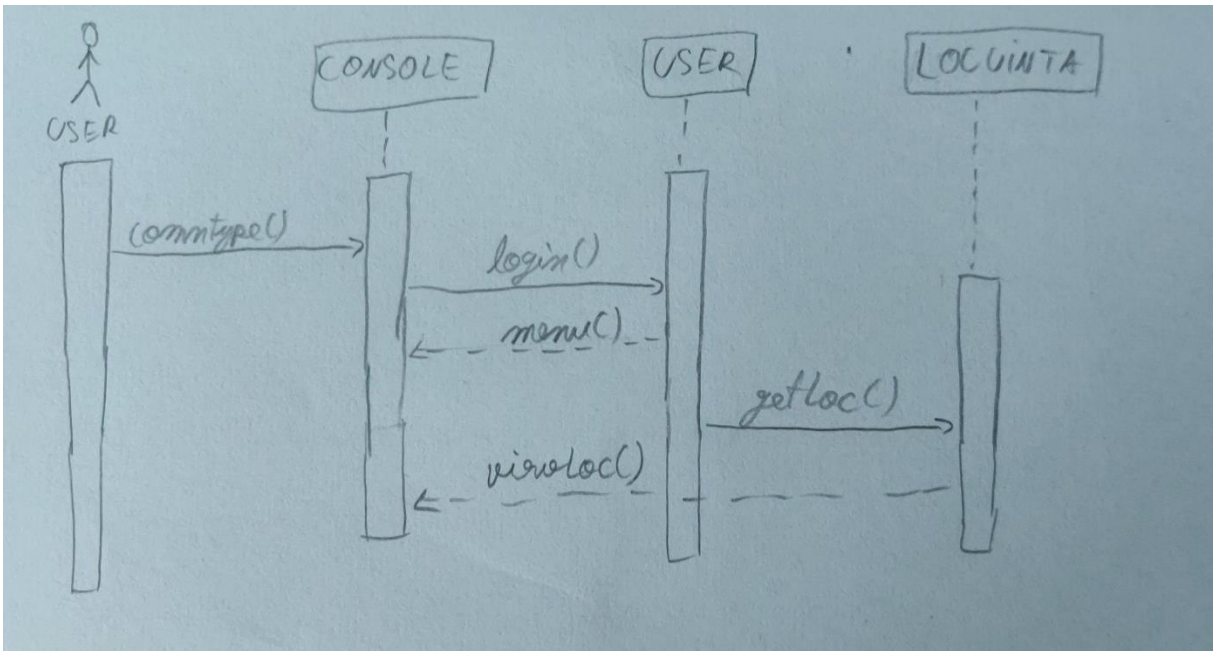
2.3 Component and Deployment Diagrams

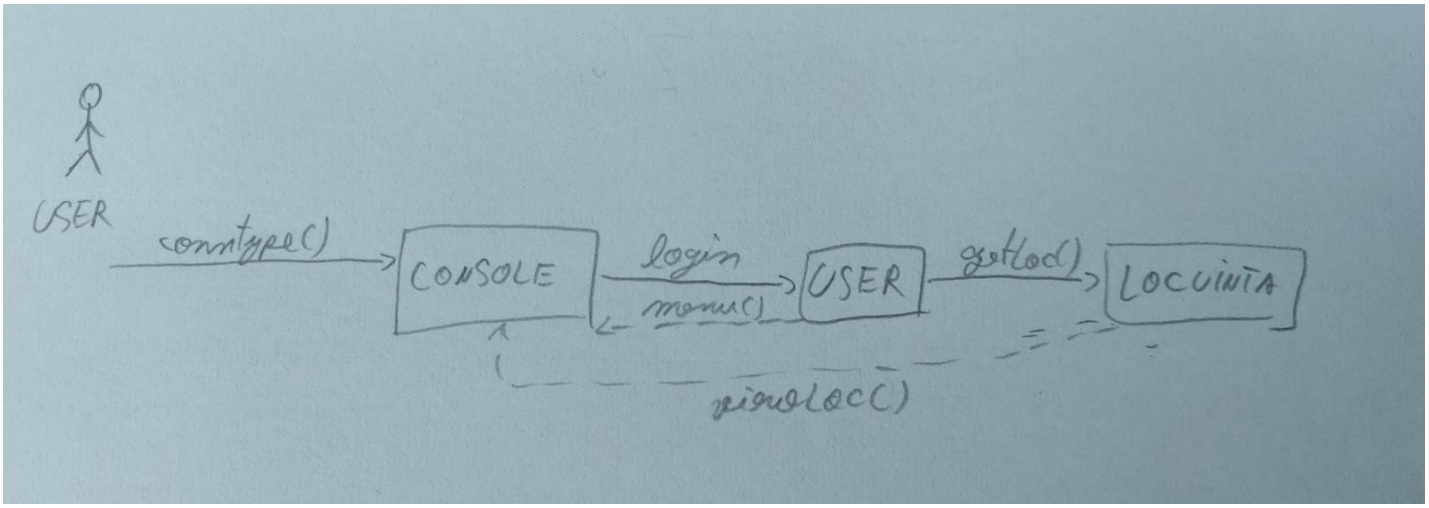


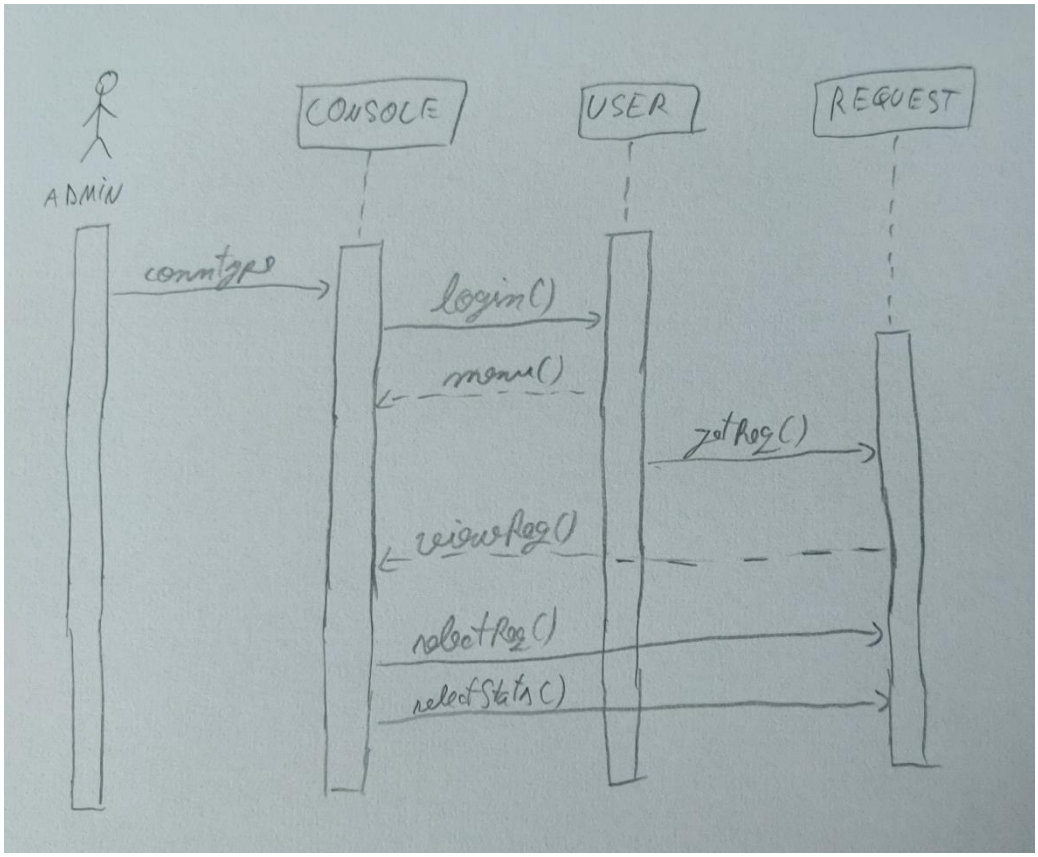
III. Elaboration – Iteration 1.2

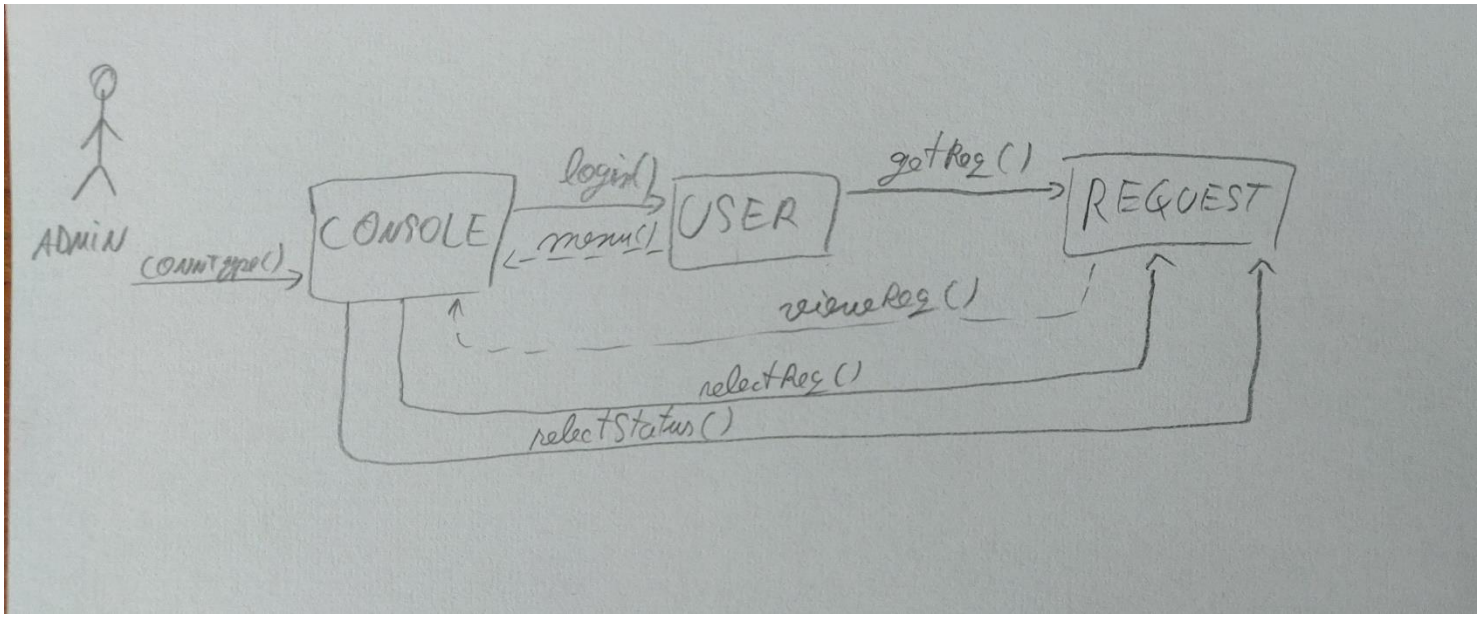
1. Design Model

1.1 Dynamic Behavior

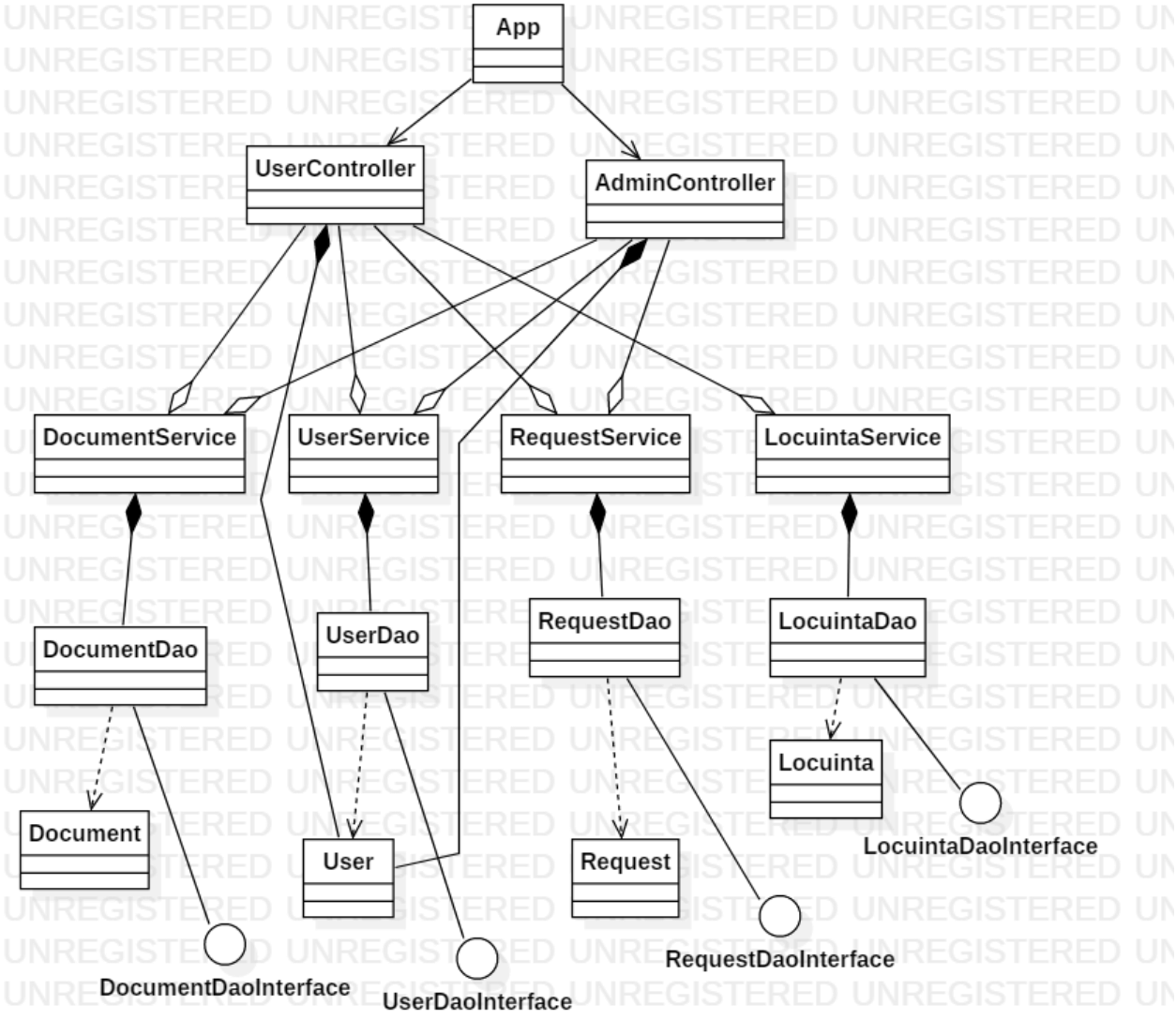




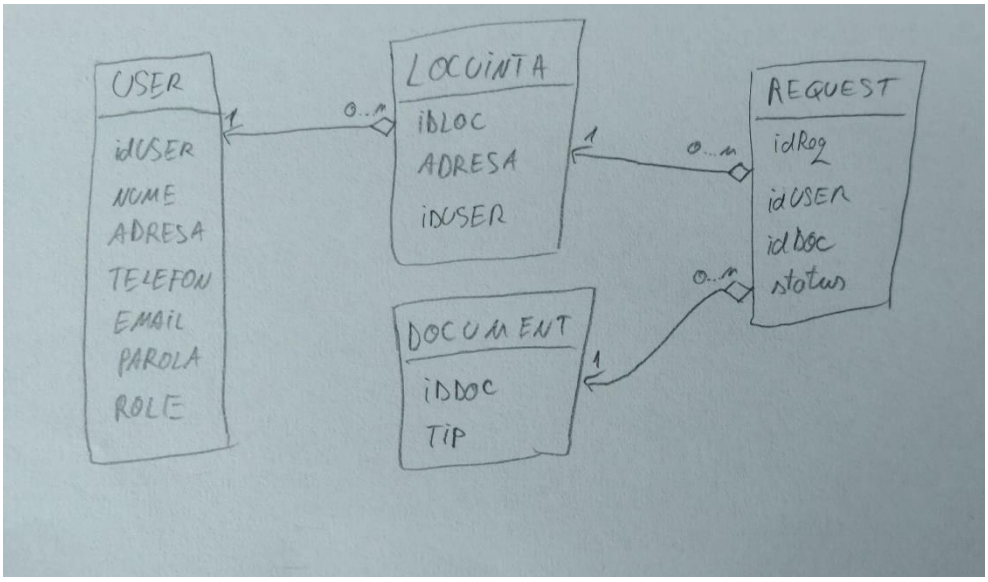

ADMIN
CONSOLE
USER
REQUEST
connType
login()
menu()
getReq()
viewReq()
selectReq()
selectStatus()


ADMIN
connType()
CONSOLE
login()
menu()
USER
getReq()
REQUEST
viewReq()
selectReq()
selectStatus()

1.2 Class Design



2. Data Model



3. Unit Testing

[Present the used testing methods and the associated test case scenarios.]

IV. Elaboration – Iteration 2

1. Architectural Design Refinement

Am adaugat un Abstract Factory design pattern pentru a putea schimba tipul conexiunii la baza de date(JDBC sau Hibernate).

2. Design Model Refinement

[Refine the UML class diagram by applying class design principles and GRASP; motivate your choices. Deliver the updated class diagrams.]

V. Construction and Transition

1. System Testing

[Describe how you applied integration testing and present the associated test case scenarios.]

2. Future improvements

Utilizatorii vor putea sa primeasca pe email documentele. Adaugarea unui sistem de plata pentru chitante si facturi.

VI. Bibliography

https://dzone.com/articles/layered-architecture-is-good
https://www.tutorialspoint.com/hibernate/hibernate_examples.htm
https://www.tutorialspoint.com/design_pattern/abstract_factory_pattern.htm