UML Class Diagram

Note: Every actor has this 4 boxes: in box, out box, trash box and spam box. This boxes are predefined and actors must not be allowed to delete them, change their names or moved them

Box
- name : String {Not Blank}
- deletable : Boolean {Not Null}

Messages
- track : String {Not Blank}
- recipient : String {Not Blank}
- datetime : Date {Past}
- subject : String {Not Blank}
- body : String {Not Blank}
- priority : String {Not Blank}{pattern('HIGH', 'NEUTRAL', 'LOW')}
- tags : String[0..*]

Note: Priorities are HIGH, NEUTRAL OR LOW, no other values are expected

Actor
- name : String {Not Blank}
- middleName : String[0..1]
- surname : String {Not Blank}
- photo : String[0..1]
- email : String {email}{Not Blank}
- phoneNumber : String[0..1] {pattern('+CC|AC|PN')}
- address : String[0..1]

SocialProfile
- nick : String {Not Blank}
- socialNetwork : String {Not Blank}
- link : String {Not Blank}

Role <>

Admin

Customer

Endorse
- moment : Date {Past}{Not Null}
- comments : String[1..*] {Not Blank}

Referees

Complaint
- ticker : String {Not Blank}
- moment : Date {Past}{Not Null}
- description : String {Not Blank}
- attachments : Integer {Not Null}

Report
- moment : Date {Past}{Not Null}
- description : String {Not Blank}
- Attachments : String[1..*] {Not Black}

Notes
- moment : Date {Past}{Not Null}
- CreatorComment : String {Not Blank}
- refereeComments : String[0..*]
- customerComments : String[0..*]
- handyComments : String[0..*]

Note: A mandatory comment from the actor who created the note is required

Phases
- title : String {Not Blank}
- description : String {Not Blank}
- startMoment : Date {Not Null}
- endMoment : Date {Not Null}

Curriculum
- ticker : String {Unique}{pattern('yymmdd-xxxxxx')}{Pattern('^\d{2}[d]{0-3}d{2}[A-Z0-9]{6}$')}

HandyWorker
- make : String {Not Blank}

Finder
- keyword : String {Not Blank}
- warranty : String {Not Blank}
- minPrice : Double {Min(0)}{Digits(4,2)}
- maxPrice : Double {Min(0)}{Digits(4,2)}
- startDate : Date {Not Null}
- endDate : Date {Not Null}

MiscellaneousRecord
- title : String {Not Blank}
- attachment : String {Not Blank}{URL}
- comments : String[0..*]

PersonalRecord
- fullName : String {Not Blank}
- photo : String {URL}{Not Blank}
- email : String {Email}{Not Blank}
- linkedIn : String {URL}{Not Blank}

EducationRecord
- diplomaTitle : String {Not Blank}
- startStudying : Date {Past}{Not Null}
- endStudying : Date {Not Null}
- institution : String {Not Blank}
- comments : String[0..*]

ProfessionalRecord
- companyName : String {Not Blank}
- startWorking : Date {Past}{Not Null}
- endWorking : Date {Not Null}
- role : String {Not Blank}
- attachment : String[0..*] {URL}
- comments : String[0..*]

EndorserRecord
- fullName : String {Not Blank}
- email : String {Email}{Not Blank}
- phoneNumber : String {Not Blank}{pattern('+CC|AC|PN')}
- linkedIn : String {URL}{Not Blank}
- comments : String[0..*]

Tasks
- ticker : String {Not Blank}{pattern('yymmdd-xxxxxx')}
- moment : Date {Not Null}
- description : String {Not Blank}
- address : String {Not Blank}
- maximumPrice : Double {Not Null}{Min(0)}{Digits(4,2)}
- startDate : Date {Not Null}
- endDate : Date {Not Null}

Application
- datetime : Date {Past}
- status : String {Not Blank}{pattern('accepted', 'rejected', 'pending')}
- maximumPrice : Double {Not Null}{Min(0)}{Digits(4,2)}
- creditCard : CreditCard[0..1]
- comments : String[1..*] {Not Blank}

Note: If the status change to accepted, a valid credit card must be provided

Warranty
- title : String {Not Blank}
- terms : String {Not Blank}
- laws : String[1..*] {Not Blank}

Category
- name : String {Not Blank}

Note: Every category belongs to a parent category, but the root category, wich is called 'CATEGORY'

Section
- title : String {Not Blank}
- text : String {Not Blank}
- pictures : String[1..*] {URL}{Not Blank}

Tutorial
- title : String {Not Blank}
- moment : Date {Past}{Not Null}
- summary : String {Not Blank}
- pictures : String[1..*] {URL}{Not Blank}

Support
- banner : String {URL}{Not Blank}
- targetPage : String {URL}{Not Blank}
- creditCard : CreditCard {Not Null}

CreditCard <<datatype>>
- holderName : String {Not Blank}
- brandName : String {Not Blank}
- number : String {Not Blank}{creditCardNumber}
- expirationMonth : String {Not Blank}{pattern('MM')}
- expirationYear : String {Not Blank}{pattern('YYYY')}
- CVV : Integer {range(100,999)}

Sponsor

System
- name : String {Not Blank}
- banner : String {Not Blank}
- bannerHeader : String {Not Blank}
- welcomePageMsg : String {Not Blank}
- phoneCode : String[1..*] {Not Blank}{pattern('+CC')}
- spamWords : String[1..*]
- votePercentage : String[1..*] {Not Blank}
- creditCards : String[1..*] {Not Blank}{pattern('VISA', 'MASTER', 'DINNER', 'AMEX')}

Relationship labels: receiver, sender, {disjoint}, father, child, Writes