Fines Payment System

Analysis and Design Document

Student: Cupsa Bogdan

**Group: 30431**

Revision History

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# Project Specification

The fines payment management system is responsible for the simplification of the fines management and payment. Back in the days, everybody lost time staying in enormous queues to pay taxes and request different documents from the authorities. With a proper online system, this activity will be simplified.

# Elaboration – Iteration 1.1

# Domain Model

The system includes the following:

* Fines: amount to pay, type of fine, date, status
* Users: admin and normal user
* Payment: the transaction of paying the fine
* Reports: .csv file with all the data

# Architectural Design

## Conceptual Architecture

* User Interface: easy to use for both admin and user. The admin can see the status of all fines and the user can male payments and see his/her fines.
* Payment gateway: the user can choose the method they want to perform the payment.
* Database: relational, will store the elements described in the model.
* Reporting module: functions to export the .csv file.
* Security module: offered by the framework.

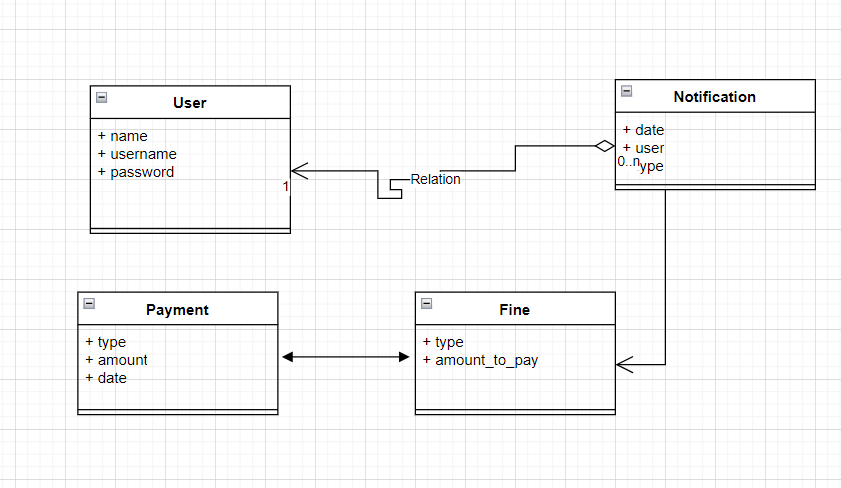
## Package Design

# Elaboration – Iteration 1.2

# Design Model

## Dynamic Behavior

## *A picture containing text, diagram, screenshot, line Description automatically generated*Class Design



# Data Model

* User
* Fine
* Payment
* Category

# Elaboration – Iteration 2

# Architectural Design Refinement

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# Design Model Refinement

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# Construction and Transition

# System Testing

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

# Future improvements

PayPal integration should be added. Ajax should work for automatically update of the number of fines in the payment.

# Bibliography