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Revision History

Date	Version	Description	Author
04/04/2018	1.0	Added specifications	Alvaro
25/04/2018	1.1	Iteration 1.2	Álvaro

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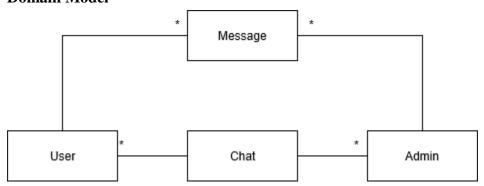
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I. Project Specification

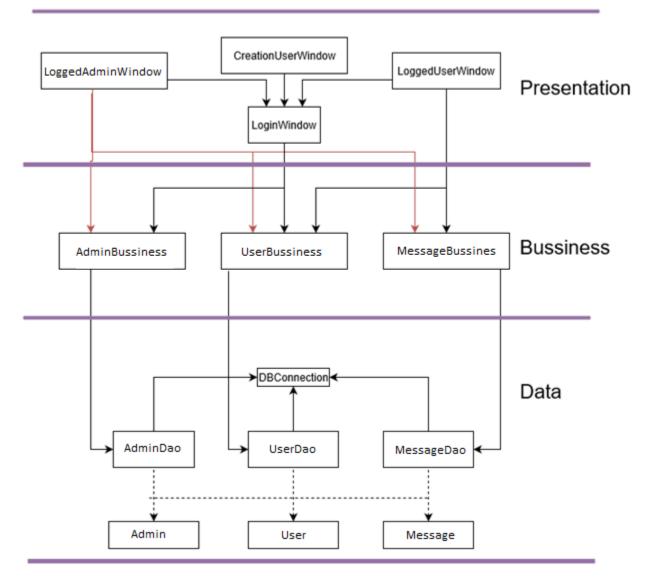
Application for tracking suspicious behavior in online chats.

II. Elaboration – Iteration 1.1

1. Domain Model



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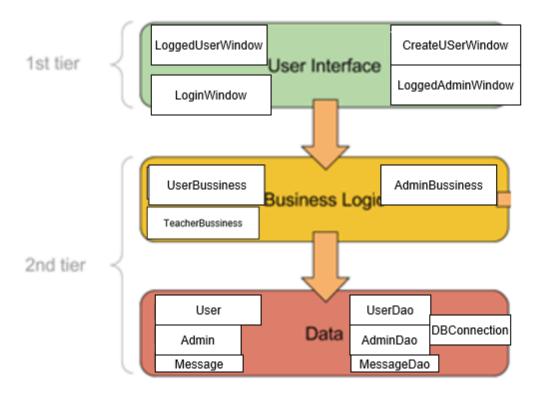


2. Architectural Design

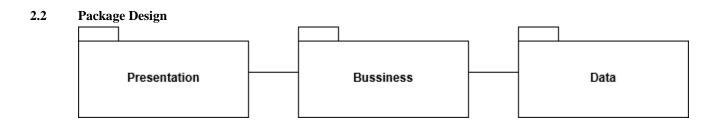
2.1 Conceptual Architecture

The system will follow the Layered architecture:

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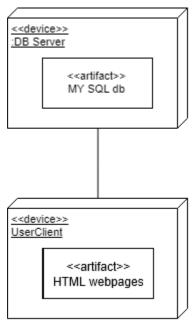


The user interface will be created using HTML webpages, the business logic the classes and their correspondent behavior which will be to allow the webpages access the data from the data layer, the business layer will access the services from the data layer which will perform CRUD operations.



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2.3 Component and Deployment Diagrams



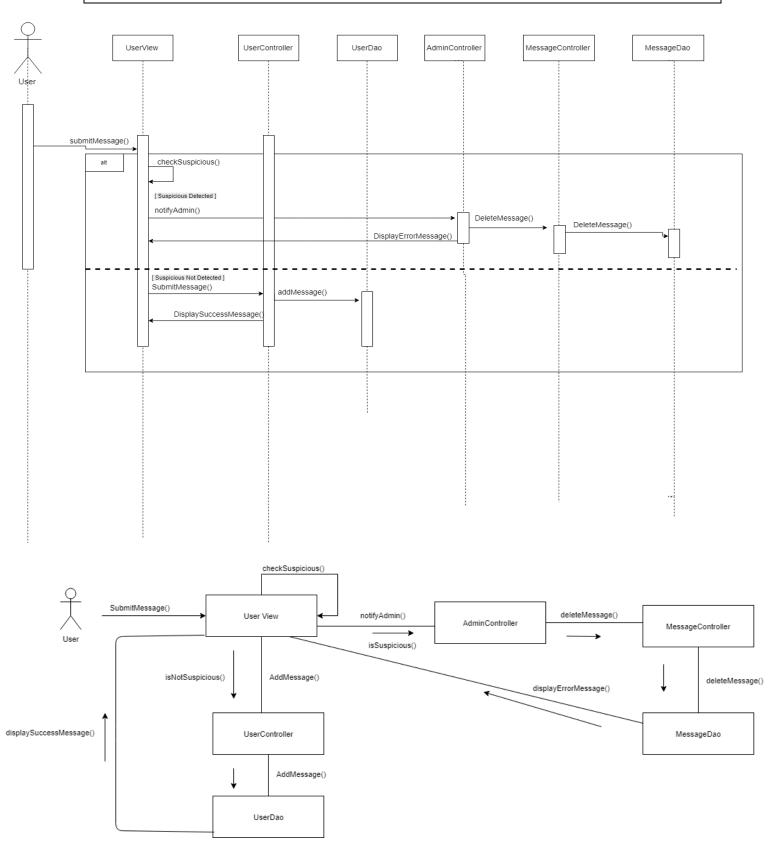
III. Elaboration – Iteration 1.2

1. Design Model

1.1 Dynamic Behavior

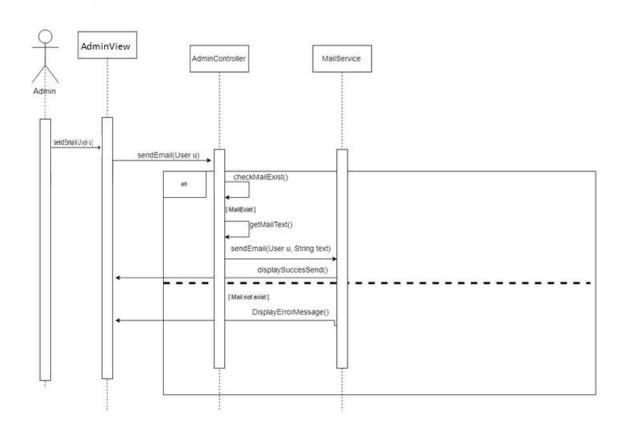
[Create the interaction diagrams (1 sequence, 1 communication diagrams) for 2 relevant scenarios] Scenario Submit Message:

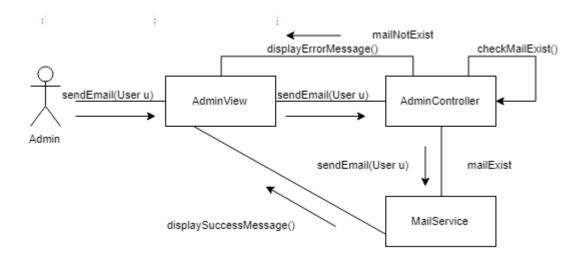
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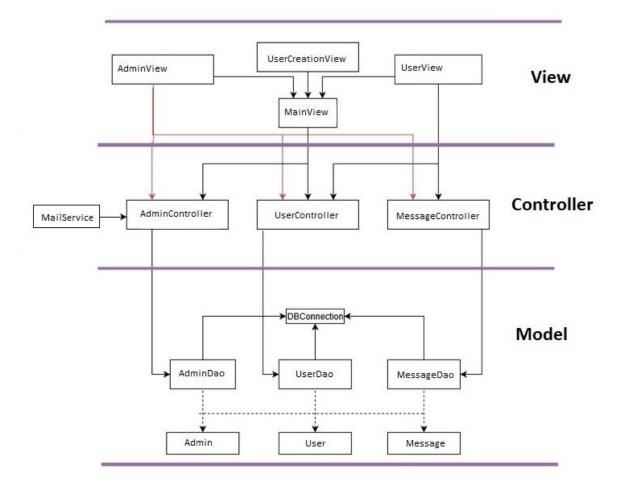
Scenario Send Email:





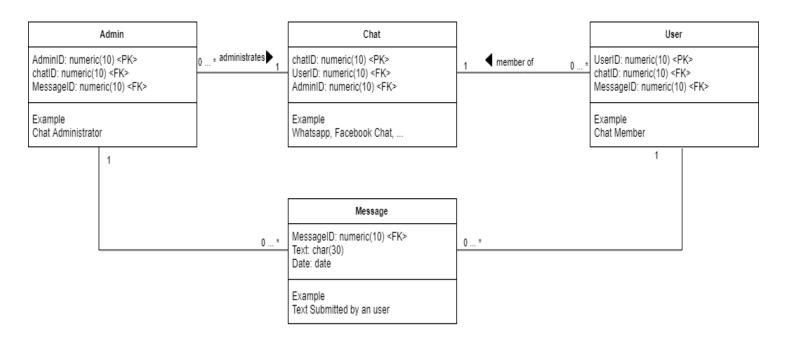
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1.2 Class Design



I will apply the Observer Design Pattern in order to notify the administrators (sending them an email) when a suspicious comment is made.

2. Data Model



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3. Unit Testing

Unit testing will be used.

Example:

Test Scenario: Validate the login page

Test Case 1: Enter a valid username and password

Test Case 2: create new account Test Case 3: Enter invalid credentials

IV. Elaboration – Iteration 2

1. Architectural Design Refinement

[Refine the architectural design: conceptual architecture, package design (consider package design principles), component and deployment diagrams. Motivate the changes that have been made.]

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

[Present future improvements for the system]

VI. Bibliography