Cooking Recipe Rating Web based Application

Analysis and Design Document

Student:Andreea Sabina Lazaroiu

**Group:30432**

Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| <05/04/18> | <1.0> | First Version | Andreea Sabina Lazaroiu |
| <16/05/18> | <2.0> | Second Version | Andreea Sabina Lazaroiu |
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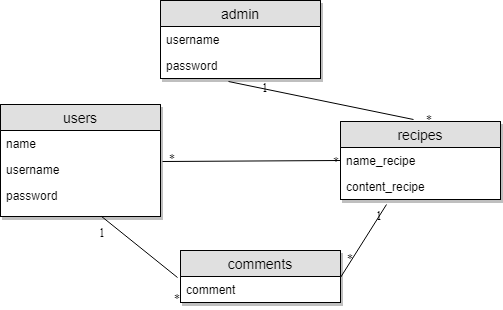
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# Project Specification

The application consists of a website of cooking recipes. Users can create an account to this website and log in. They can also post, view recipes, comment on a recipe and view ratings of a recipe. This website will be managed by the administrator which will also have to login. The administrator can add keywords, view users, view incorrect recipes, delete incorrect recipes and block users.

# Elaboration – Iteration 1.1

# Domain Model

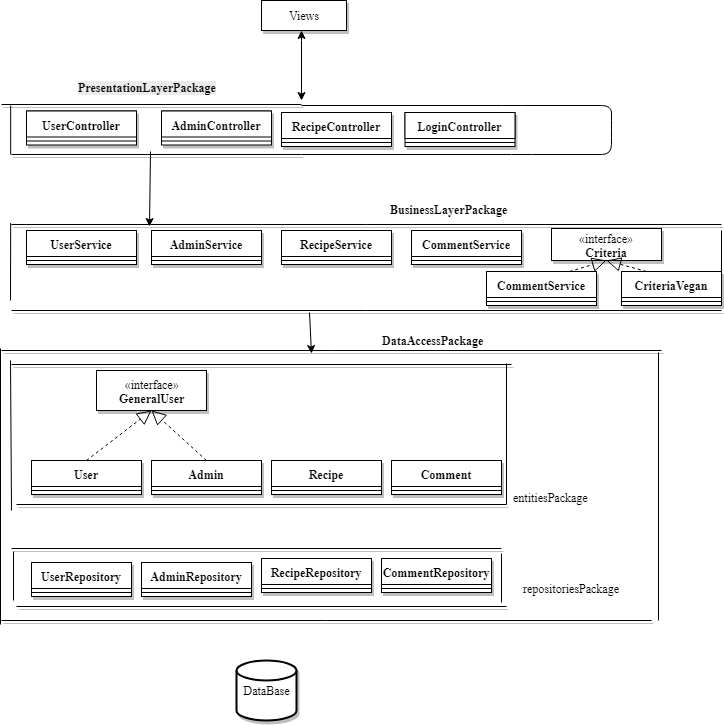


# Architectural Design

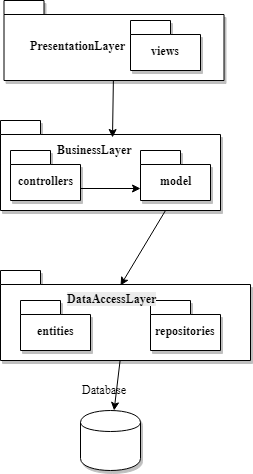
## Conceptual Architecture

This system will be implemented based on the Layered Architecture Pattern. This pattern is recommended for the applications that can be decomposed into different groups of subtasks which will be the case for this application. Also with this pattern parts of the system should be exchangeable. This pattern permits future late changes to not ripple through the system. This pattern provides high testability and high ease of development, low coupling and high cohesion.

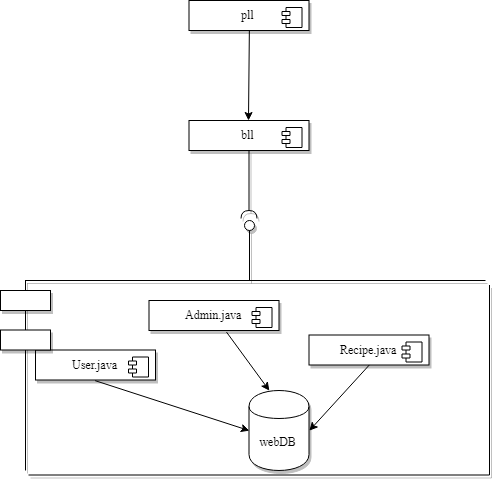
The system will also have an MVC Pattern applied to it.

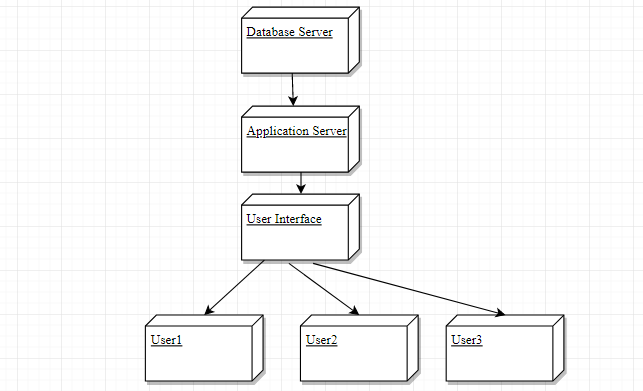


## Package Design



## Component and Deployment Diagrams





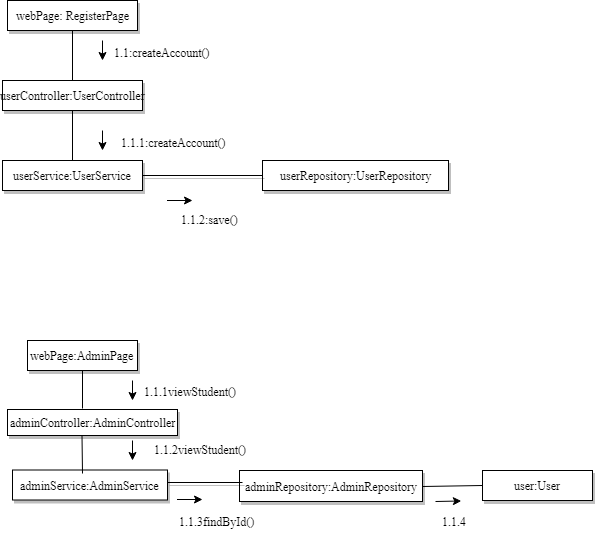
# Elaboration – Iteration 1.2

# Design Model

## Dynamic Behavior

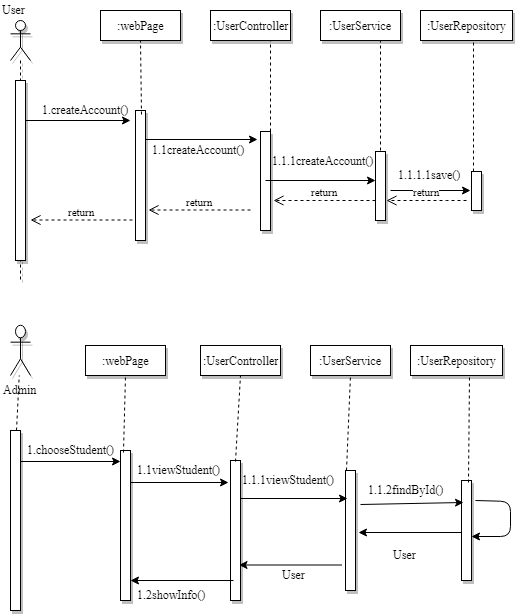
Communication Diagrams

* User: register
* Admin: view user



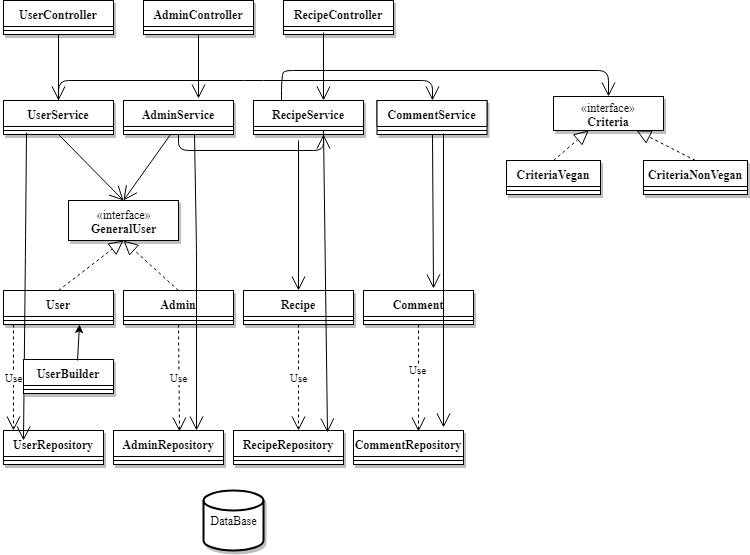
Sequence Diagrams:

* User: register
* Admin: view user

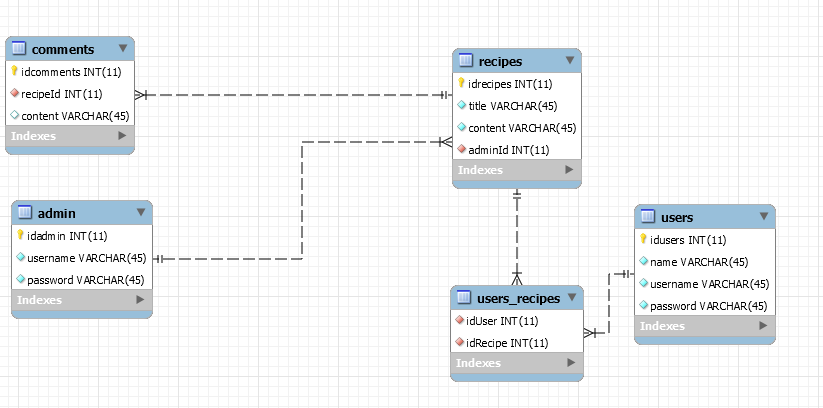


## Class Design

For this project the Factory Pattern will be used. The idea is to define an interface to construct an object and let each subclass decide what class to instantiate.



# Data Model

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# Unit Testing

There will be JUnit Test methods for each method of the ServiceClasses.

# Elaboration – Iteration 2

# 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.]*

# Design Model Refinement

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

# Construction and Transition

# System Testing

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

# Future improvements

*[Present future improvements for the system]*

# Bibliography