

PROJECT PART 4

Team Name and Number: Movie Recommendation System (#32)

List of Team Members: Chaitra Ramachandra, Vipra Gupta

PROJECT SUMMARY

Vision: To build a robust movie recommendation system that can recommend movies to its users by analysing their movie watch patterns and movie preferences.

Project Description: Movie Recommendation System is a web application that will recommend movies to its users by analysing their genre preferences and watch patterns. The application provides an interface through which the users can login into the system, update their basic profile, the application will ask them certain questions and build the user's profile. The application will also perform analysis on the user's movie watching patterns and the ratings they gave to them to recommend movies according to the his/her taste.

CLASS DIAGRAMS

Old Class Diagram can be found at the end of this document.

Completed Current Class Diagram can be found at the end of this document.

SUMMARY

- Redesigned class diagram a little (very minor changes such as including new methods and changing parameters of certain methods)
- Implemented Factory Method design patterns over classes in Java
- Created an improvised version of the completed class diagram
- Implemented all the below classes in Java
 - Admin
 - AdminController
 - AdminService
 - Customer
 - CustomerController
 - CustomerControllerFactory
 - CustomerService
 - Movie
 - MovieService
 - Payment
 - PaymentController
 - PaymentService
 - PremiumCustomerController
 - Recommend
 - RecommendationController
 - RecommendationService
 - User

- UserController
- UserService

BREAKDOWN (of Part 4 tasks):

Vipra Gupta

1. Modifying some methods in the class diagram
2. Implemented half of classes from the class diagram in java
3. Implemented the design patterns

Chaitra Ramachandra

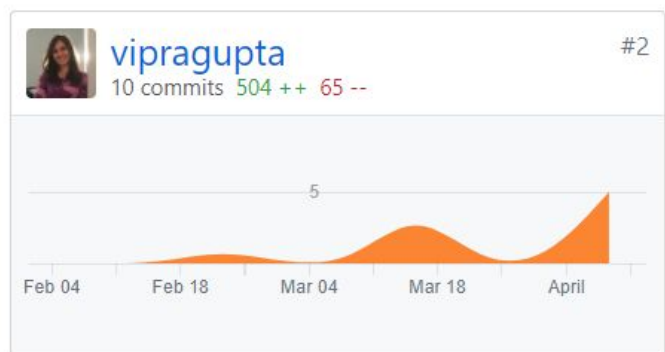
1. Modifying some methods of Payment and Recommendation class in the class diagram
2. Implemented half of the classes from the class diagram in java

GITHUB GRAPH

Feb 4, 2018 – Apr 12, 2018

Contributions: Commits ▾

Contributions to master, excluding merge commits



ESTIMATE REMAINING EFFORT

1. Implementation of fully functional Login and Session Management - 5 hours
2. Implementation of database and DB connections - 5 hours
3. Implementation of all the methods and make it work with database - 10 - 12 hours
4. Creating Unit tests - 3 hours
5. Refactoring - 2 hours

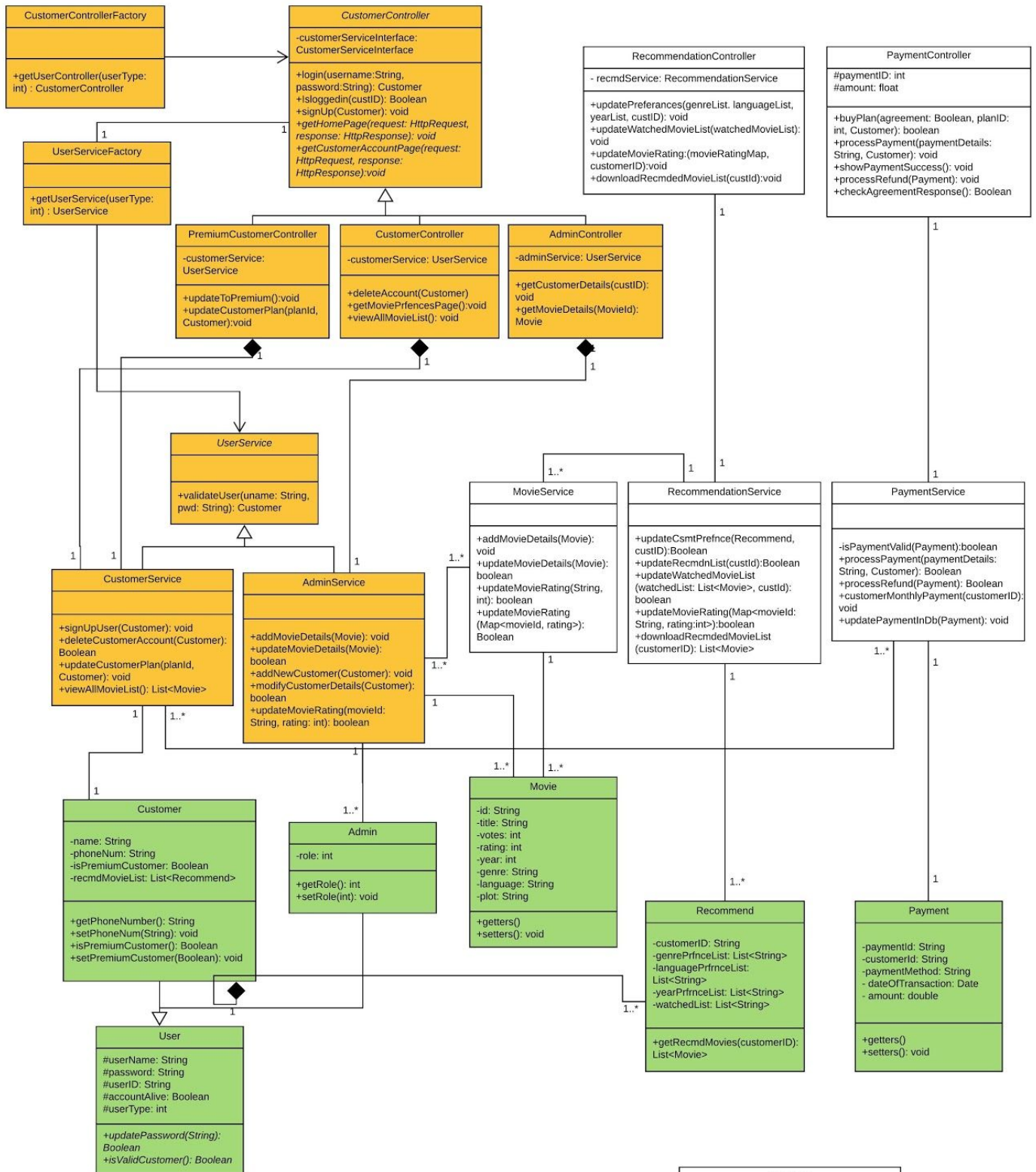
6. User Interface - 6 hours

NEXT ITERATION

1. Implement Database
2. Connect to database
3. Complete the skeleton code by adding methods that work with database
4. Complete the entire system
5. Testing out the system through unit and integration testing

Old Class Diagram (from Part3 submission):

(Can also be found in git as separate file)



Current Completed Class Diagram (Part4 submission):
Can also be found in git as separate file

