

CPE343 Object-oriented Analysis and Design

Project Design Booklet

Topic: Movie Review Social Network



Team

SunnySideUp

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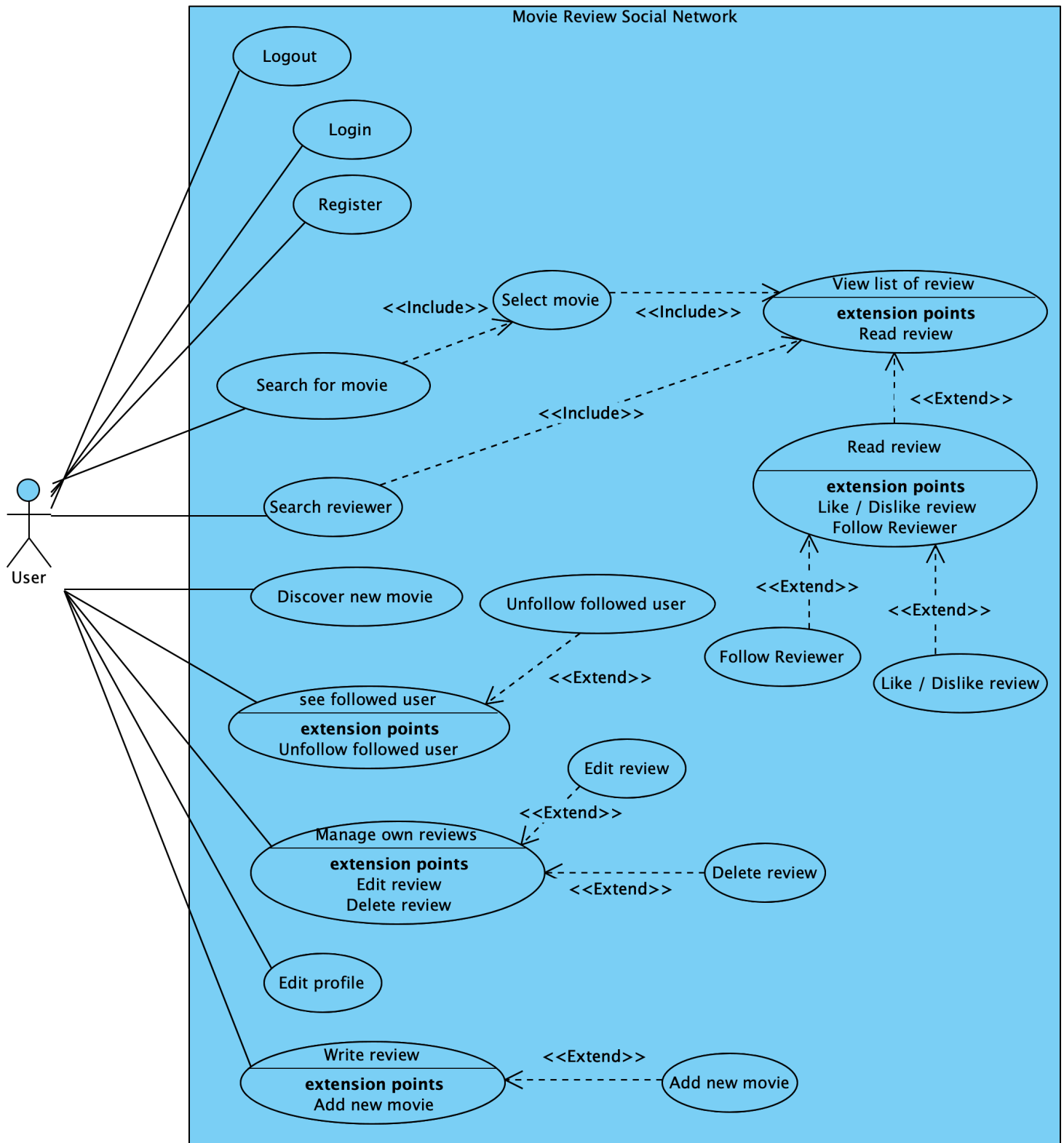
MRSN Description

Movie Review Social Network (MRSN) is a java program that imitated common movie review website you can find on the internet. Though text based, MRSN can be used to read review, search, write review, follow reviewer, manage review, register, save to file, add new movie, and discover new movie you might like through our simple random movie function.

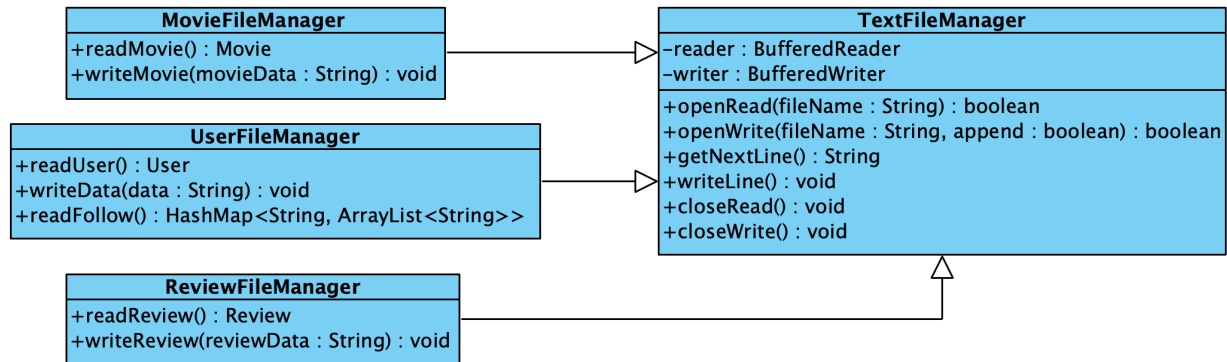
As I said MRSN is text based so it will work on terminal only. When search if there are too many search results MRSN will split search results into 5 results per page. Then, user can navigate through each page with easy command. MRSN is state program; output shown to user will varies for each state. User's action will change MRSN's state according to state diagram. MRSN provides ultra-encapsulation of data each change in data class will be done through each class managers. Each change in data will be later saved by file managers. User can search for movie by category or name but input to search must almost exactly match with its name or category. Also, user can search for review using reviewer name. Most of the data in MRSN can be edited by user. Finally, MRSN has a very big façade class which handle almost every input and output.

Despite all said MRSN was down scoped from the requirement version. In this version MRSN don't have movie tag, user can't sort movie, only menu will show up at main page, the program doesn't have complex suggestion system, and every part that shown list of something without user asking for it are cut out.

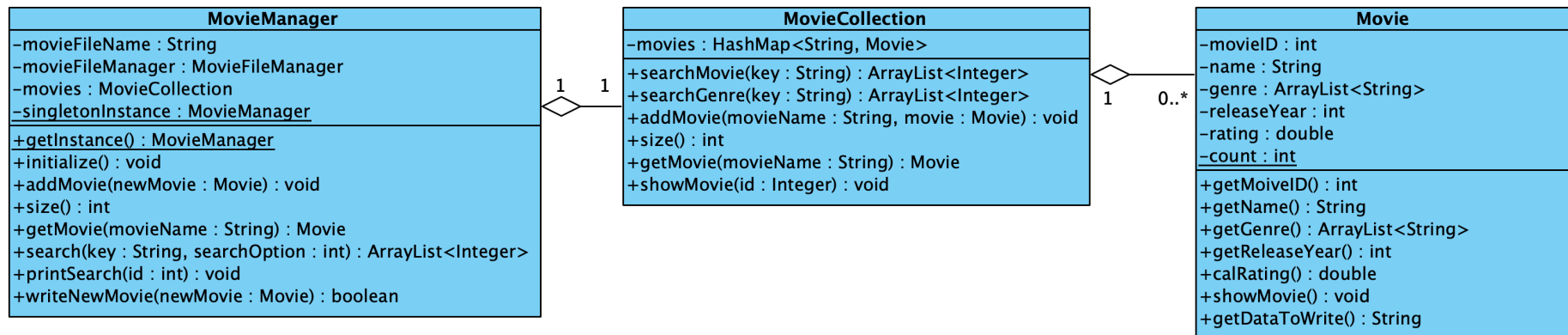
Use case diagram



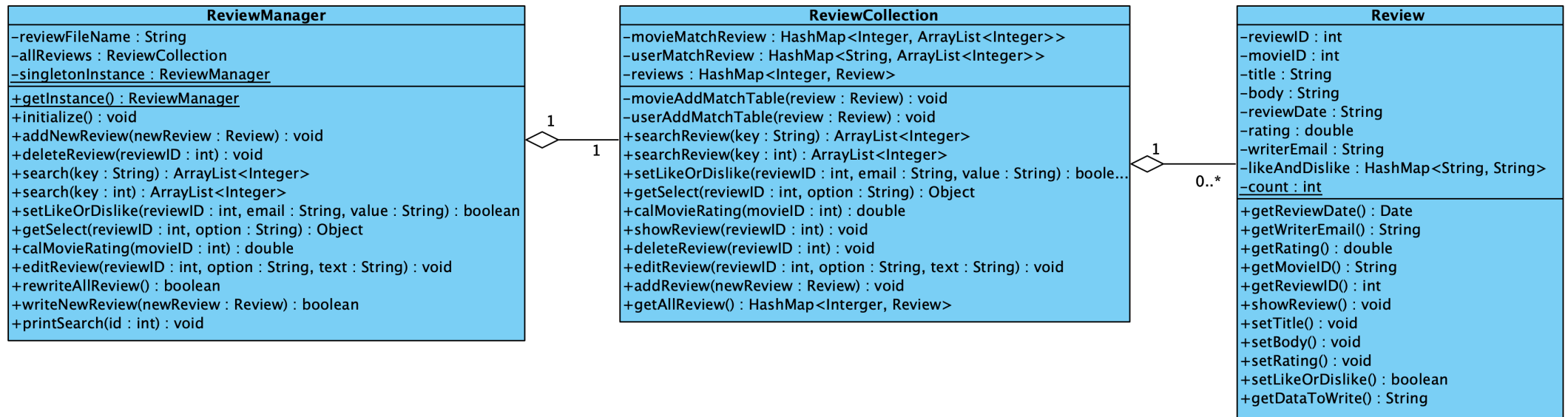
Class diagram



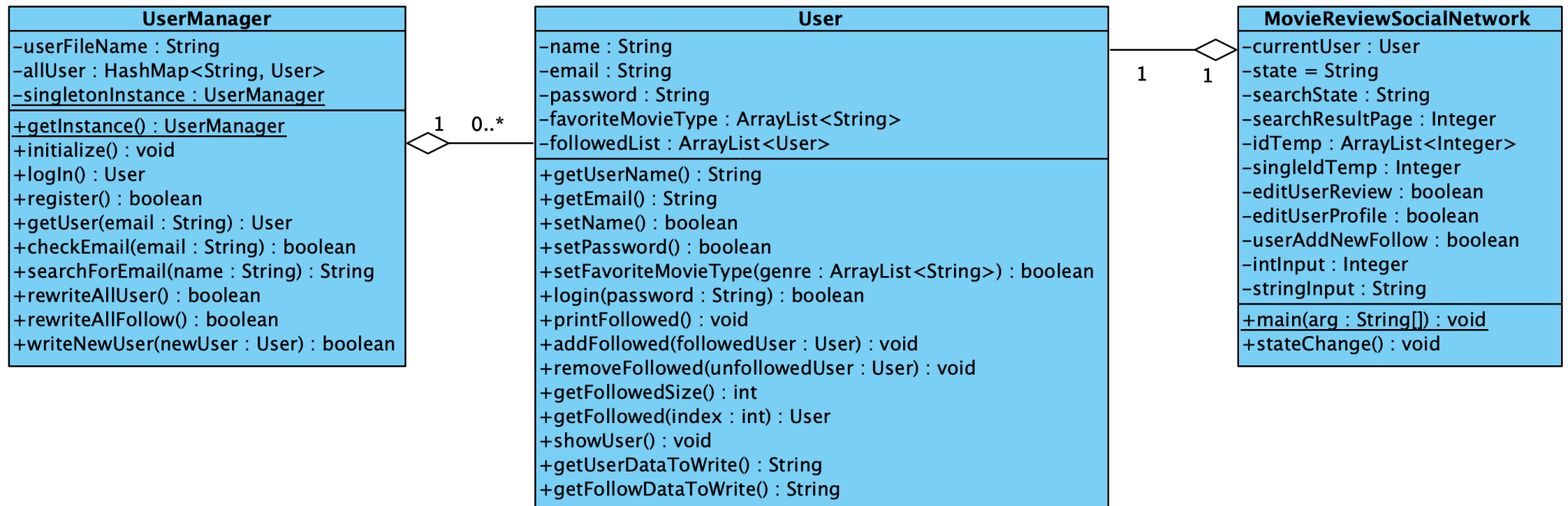
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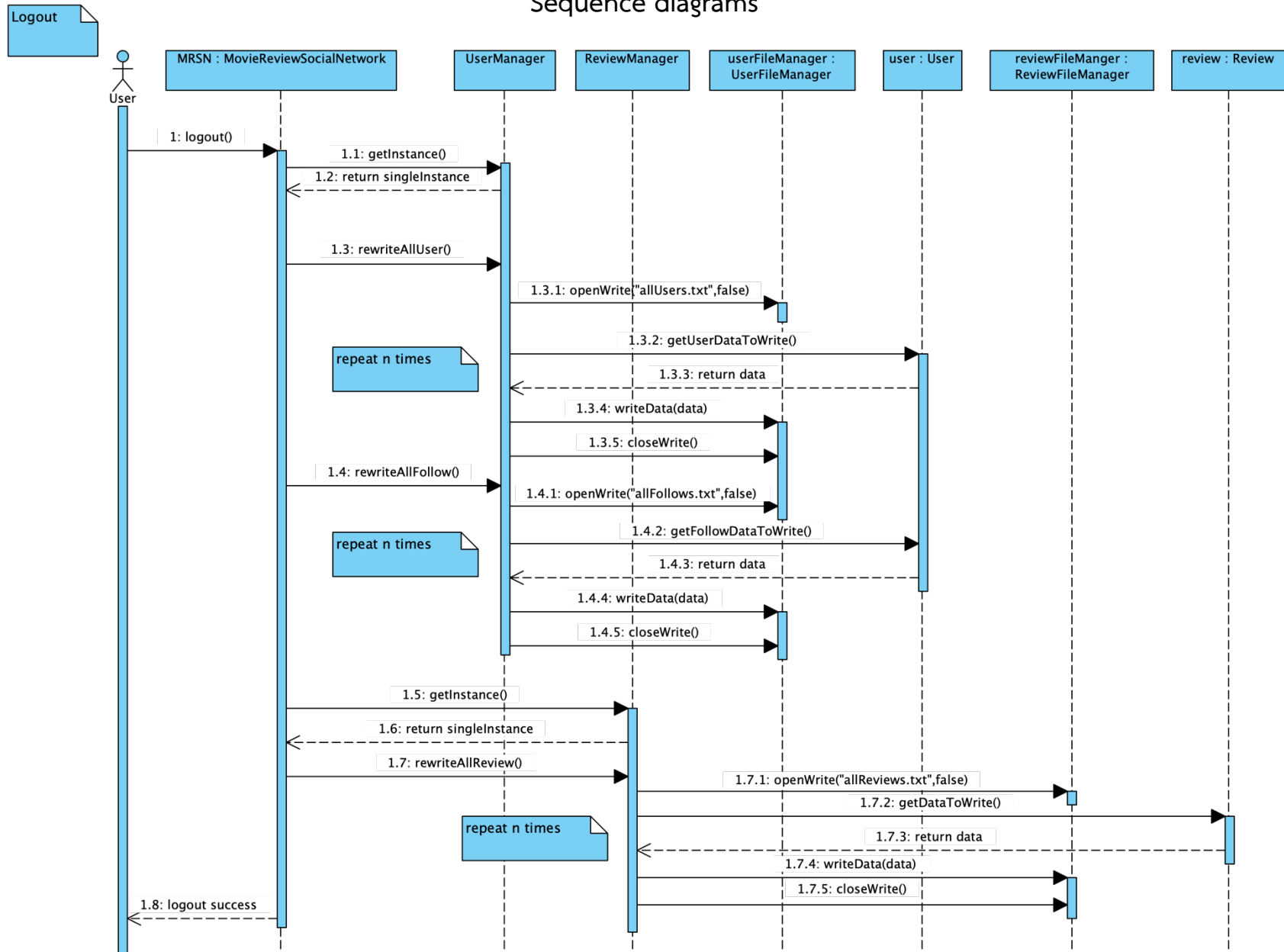
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Class description table

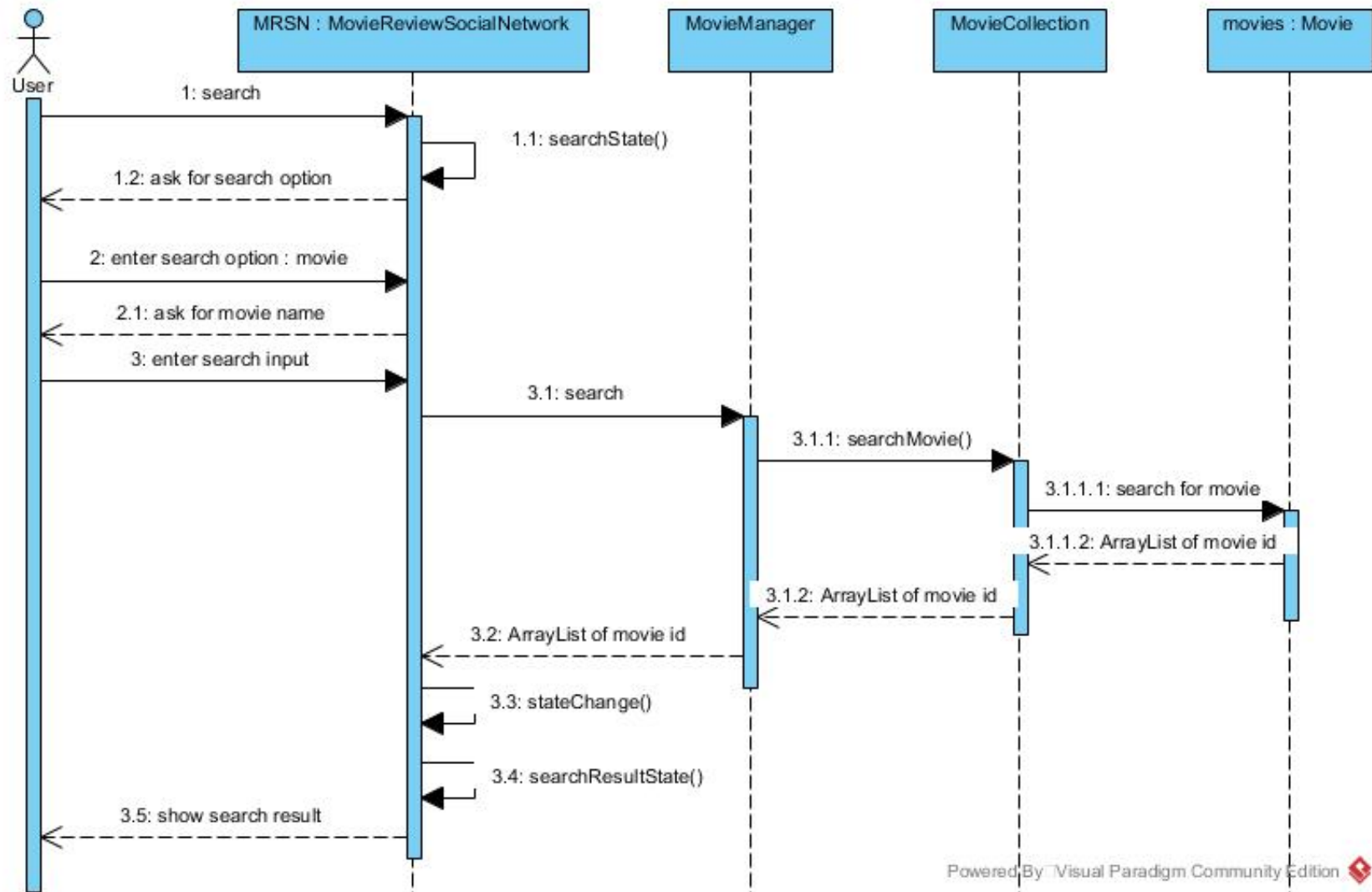
Class	Primary responsibility	Relationship
MovieReviewSocialNetwork	façade	Use every other classes.
TextFileManager	Read/write text file	Is superclass of MovieFileManager, ReviewFileManager, and UserManager.
MovieFileManager	Read/Create Movie from file	Subclass of TextFileManager. Used to read/save file by MovieManager.
ReviewFileManager	Read/Create Review from file	Subclass of TextFileManager. Used to read/save file by ReviewManager.
UserFileManager	Read/Create User from file	Subclass of TextFileManager/ Used to read/save file by UserManager.
Movie	Represent movie	Is kept by MovieCollection. Is managed by MovieManager.
MovieCollection	Keep all Movie	Kept all Movie. Is managed by MovieManager.
MovieManager	Manage Movie	Manage Movie and MovieCollection. Use MovieFileManager to get Movie from file.
Review	Represent review of Movie	Is kept by ReviewCollection. Is managed by ReviewManager.
ReviewCollection	Keep all Review	Kept all Review. Is managed by ReviewManager.
ReviewManager	Manage Review	Manage Review and ReviewCollection. Use ReviewFileManager to get Review from file.

User	Represent user who used movie review website	Is kept in UserManager and MovieReviewSocialNetwork. Is managed by UserManager.
UserManager	Manage User and handle authentication	Manage and keep Users.

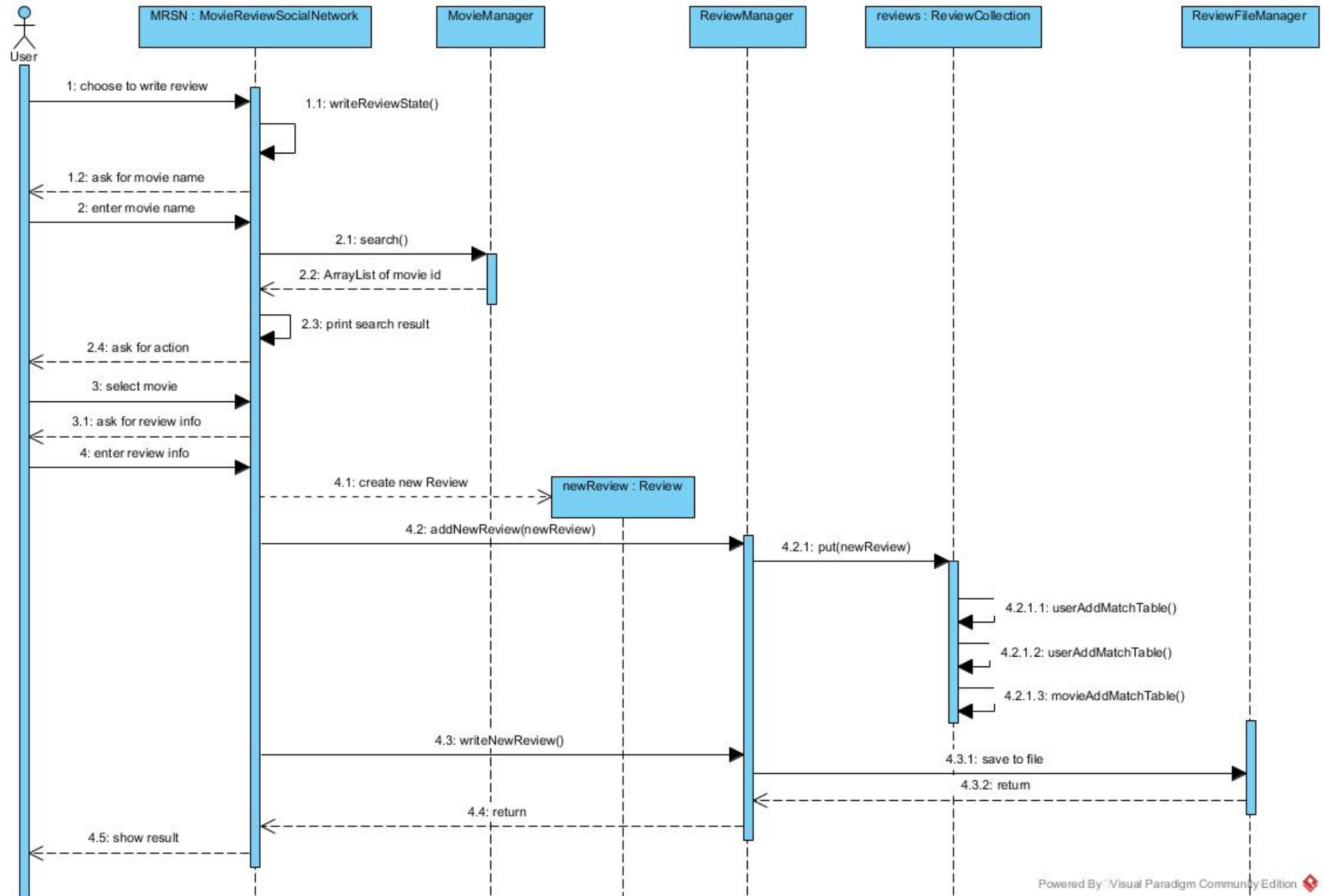
Sequence diagrams



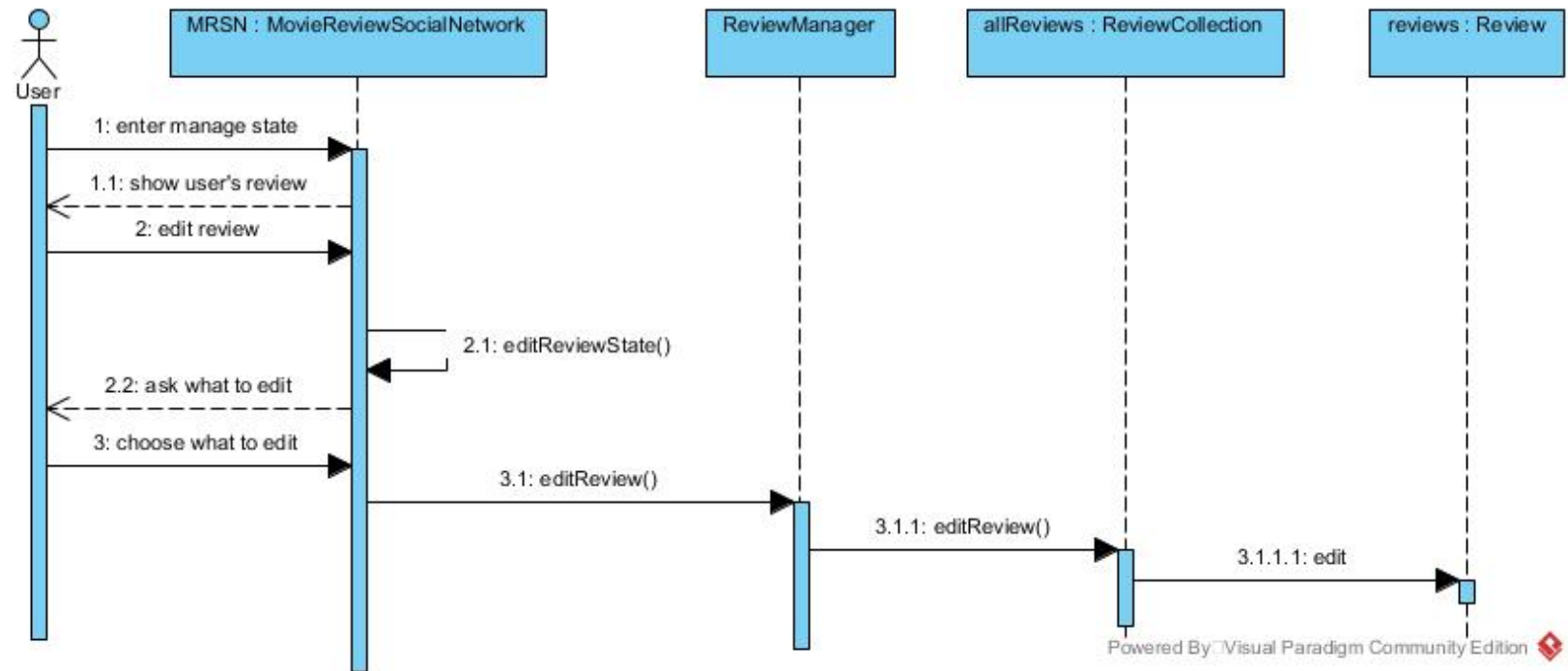
Search



write review



manage
review



```

graph TD
    Start([Start]) --> begin([begin])
    begin -- login --> login([login])
    begin -- register --> register([register])
    begin -- fail --> begin
    login -- fail --> begin
    login -- succeed --> main([main])
    register -- fail --> begin
    register -- succeed --> writeReview([writeReview])
    writeReview -- back --> main
    writeReview -- auto --> editReview([editReview])
    editReview -- edit review --> manage([manage])
    manage -- back --> main
    manage -- manage review --> main
    manage -- discover --> discover([discover])
    discover -- no movie --> main
    discover -- search --> search([search])
    discover -- discover --> movie([movie])
    search -- back --> main
    search -- search --> searchResult([searchResult])
    searchResult -- select --> movie
    movie -- read more review --> searchResult
    searchResult -- back --> main
    searchResult -- select --> review([review])
    review -- see review --> followed([followed])
    followed -- edit followed --> edit([edit])
    edit -- edit --> user([user])
    user -- change password --> changePassword([change password])
    changePassword -- change password --> main
    user -- search --> main
    user -- back --> main
    edit -- back --> main
    followed -- back --> main
    review -- back --> main
    searchResult -- back --> main
    movie -- back --> main
    search -- back --> main
    discover -- back --> main
    manage -- back --> main
    writeReview -- back --> main
    login -- logout --> logout([logout])
    logout -- auto --> begin
    login -- choose exit --> exit([exit])
    exit -- auto --> End([End])
  
```

