1.6 Structured Chart

0.0 SPW

1.0 Enter Login Info
2.0 Purchase DVD
3.0 View Dance Videos
4.0 View History Info
5.0 Preview Site
6.0 Contact Us
7.0 View Msg Board

1.1 PW SN Entry
1.2 Become a Member
1.3 Authenticat User
1.4 System Entry
2.0 Select Product
2.1 Display To User
2.2 Shopping Cart
5.1 Retrieve Video
5.2 Display Video
7.1 Display Msg
7.2 Enter Msg

1.2.1 Enter Reg Inf
1.2.2 Check Dup Entry
1.2.3 Validation of User
2.2.1 Add to Cart
2.2.2 Display Info
2.2.3 Del Item
Msg Data Base

1.2.2.1 Retrieve PW SN
1.2.2.2 Check Dup

2. Data Driven Design
2.1 ERM
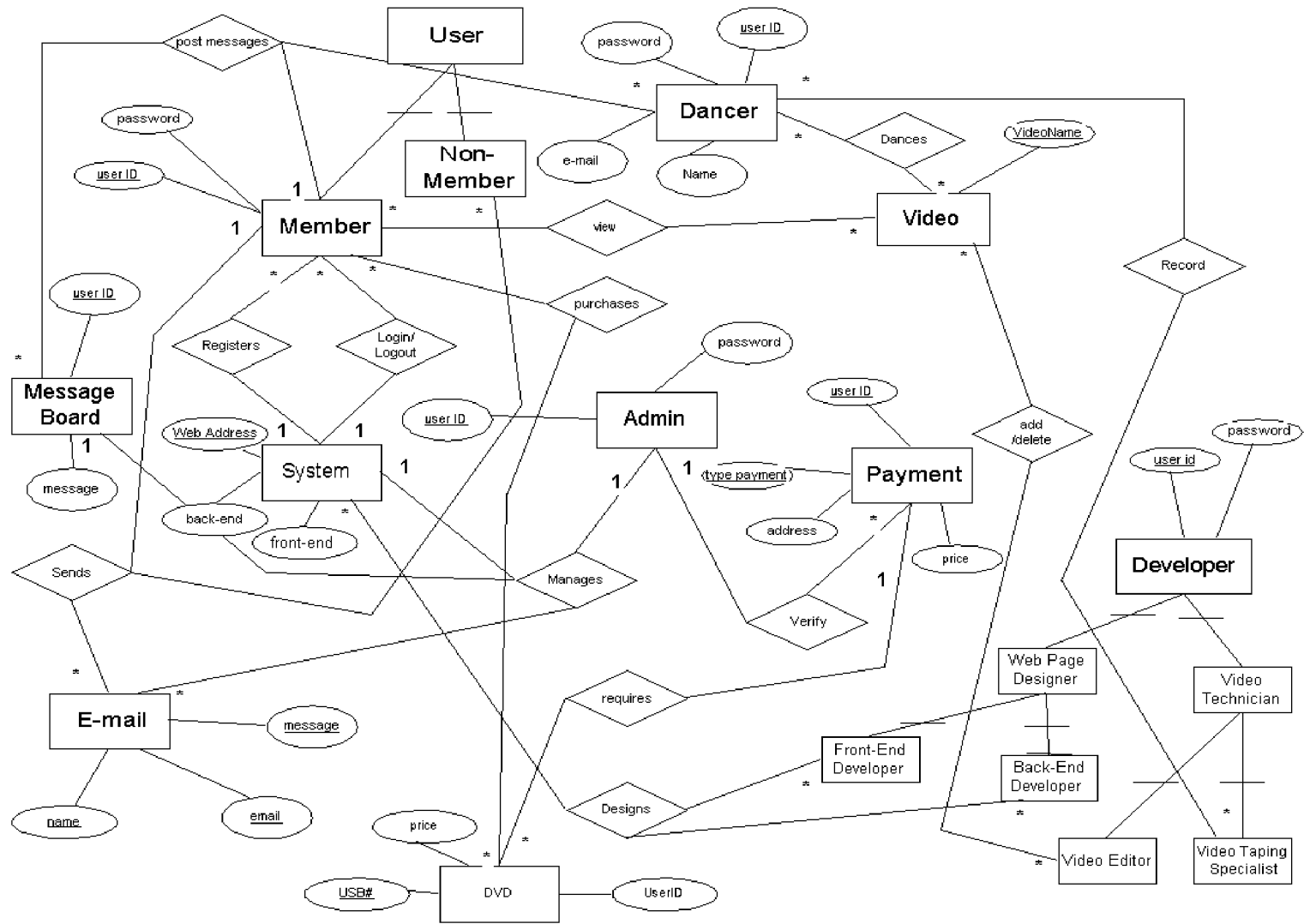
3. Object Oriented Design
3.1 Static Object Model

Static Object Model

User
- View Previews
- E-mail admin

System
- Web Address*
- Front-end
- Back-end
- View Video
- Purchase DVD
- Post Messages
- Contact Admin
- View
- Resources

Developer
- User ID *
- Password

Dancer
- User Id *
- Password
- E-mail
- Fname
- Lname
- Dance
- Post Message

(0,N) Access (1,1)

(1,N) Sends

(1,1)

Non-member
- Register

Member
- User Id
- Password
- E-mail
- Fname
- Lname
- Post Message
- Log In
- Log Out
- Purchase
- DVD

(0,N)

(0,N)

(0,N)

(1,1)

Web Page Developer

Video Technician

Designs (1,N)

(1,N) Record

(0,N)

Dances

View

Purchase

(0,N)

DVD
- User Id *
- Price
- USB# *
- Post message
- Add to Shopping-cart

E-mail
- Message *
- E-mail *
- Name

Front-end
- GUI
- Designing GUI

Back-end
- Functionality
- Design Msg Brd
- Authentication
- Shooping Cart

Video Editor
- Crop Videos
- Upload Video
- Vectorize

Video Taping Specialist
- Video Tape Dancers

Video
- Genre
- Level
- Video name
- Size
- Type
- Stream
- Record
- Upload Edit
- Vectoried

(1,N)

(0,N)

(1,N)

(0,N)

(1,N)

(1,N)

(1,N) View

Produces (1,N)

(1,N)

(1,N) Requires

(1,1)

Manages (1,N)

Post Messages

Post Messages (0,N)

Payment
- User ID *
- Payment Type
- Address
- Price
- Address

Admin
- User Id *
- Password
- E-mail
- Fname
- Lname
- Add Message
- Delete Message
- Reply to Email

Message Board
- User Id *
- Message
- Post message

Preview

Member Video
- User Id
- Password

(0,N) Verify (1,N)
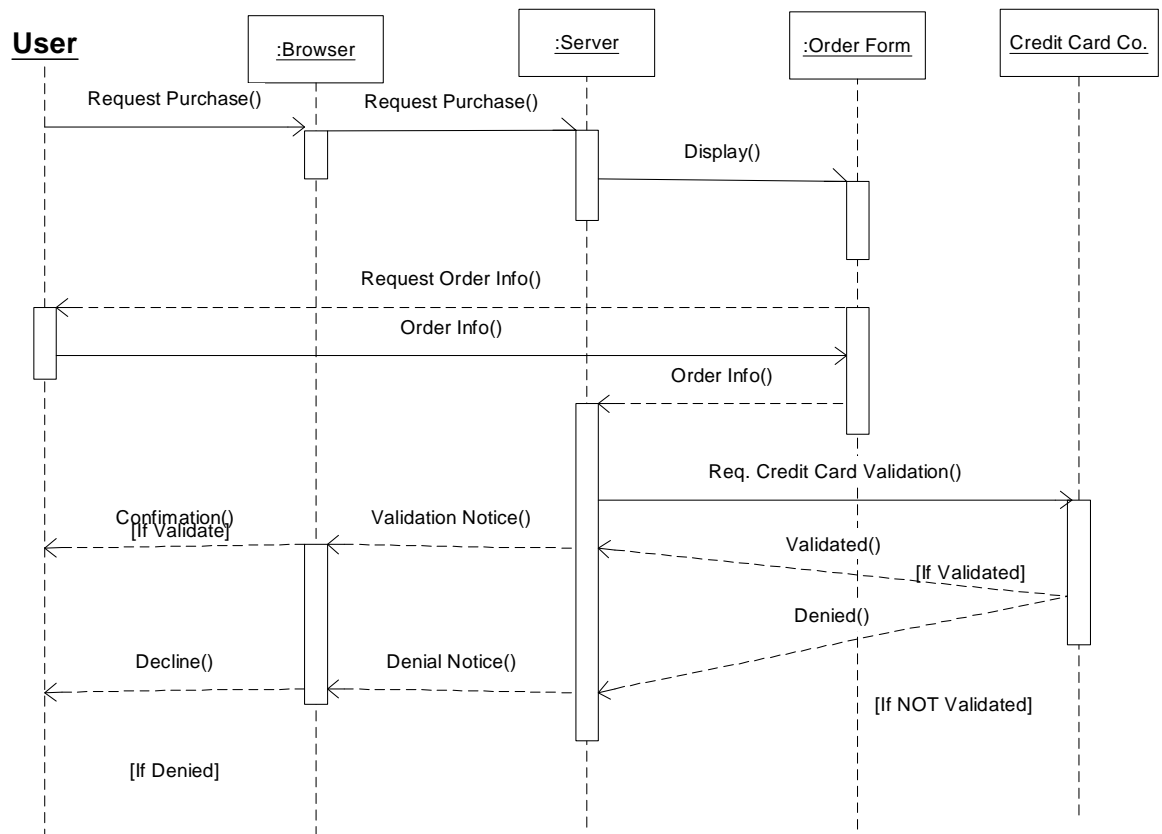
(1,N) (1,1) Manages

(0,N)

(0,N)

(1,N)

3.2 Dynamic Modeling
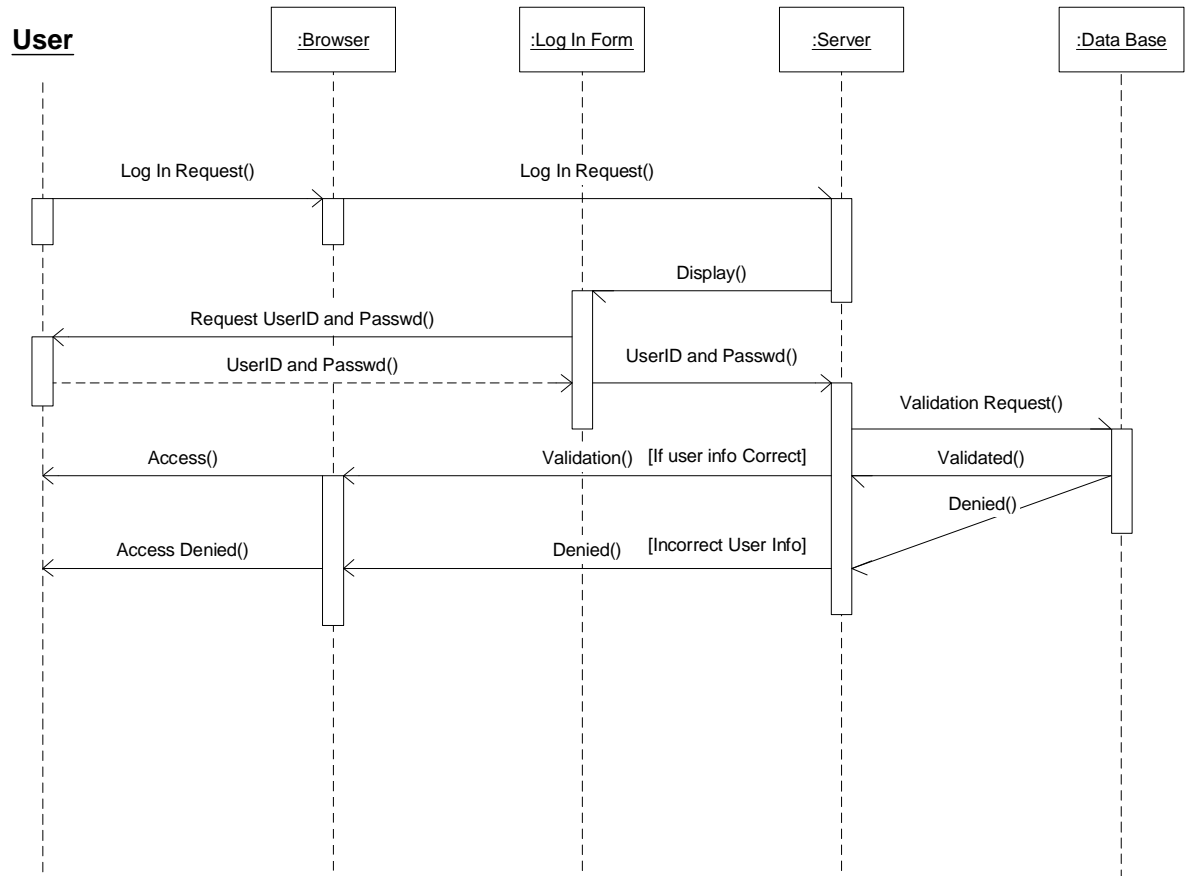
3.2.1 Sequence Diagrams
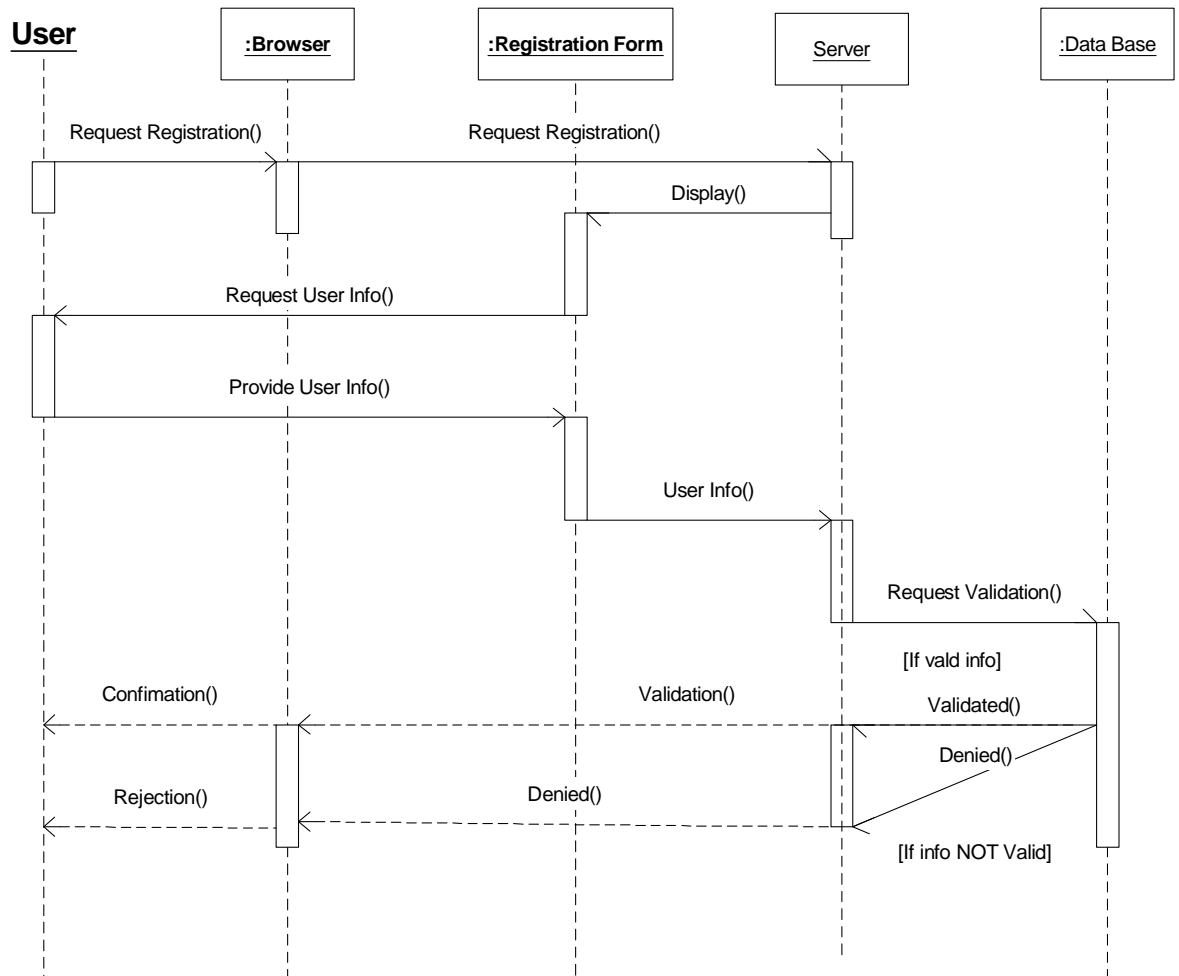
3.2.1.1 Download
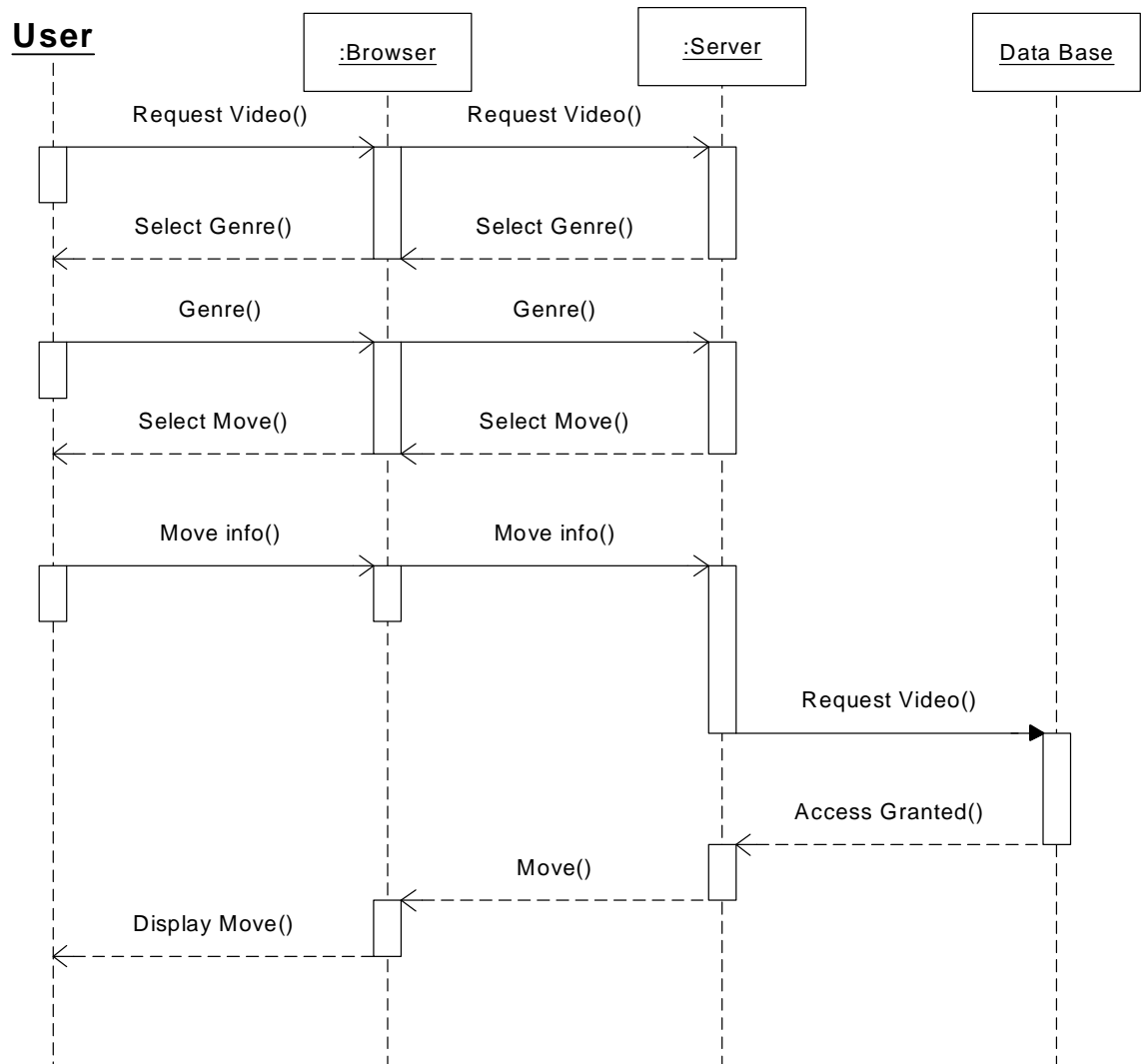
3.2.1.2 Sequence Diagram: Purchase DVD

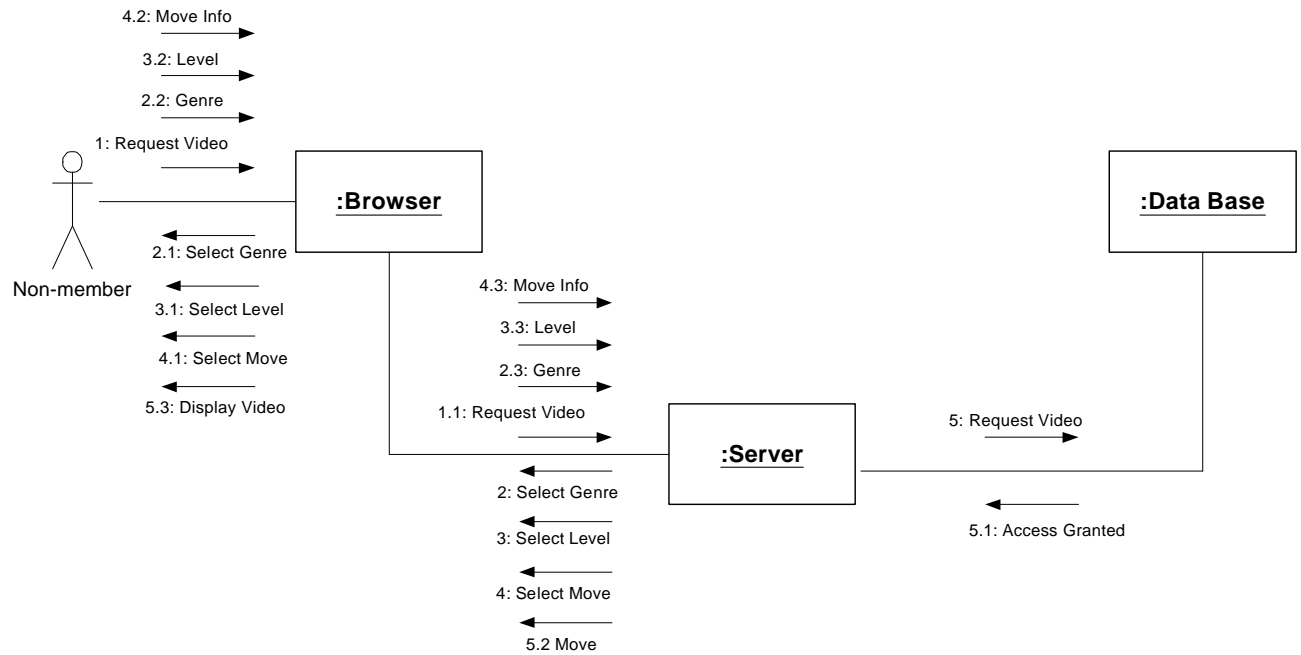### 3.2.1.3 Sequence Diagram: Log In

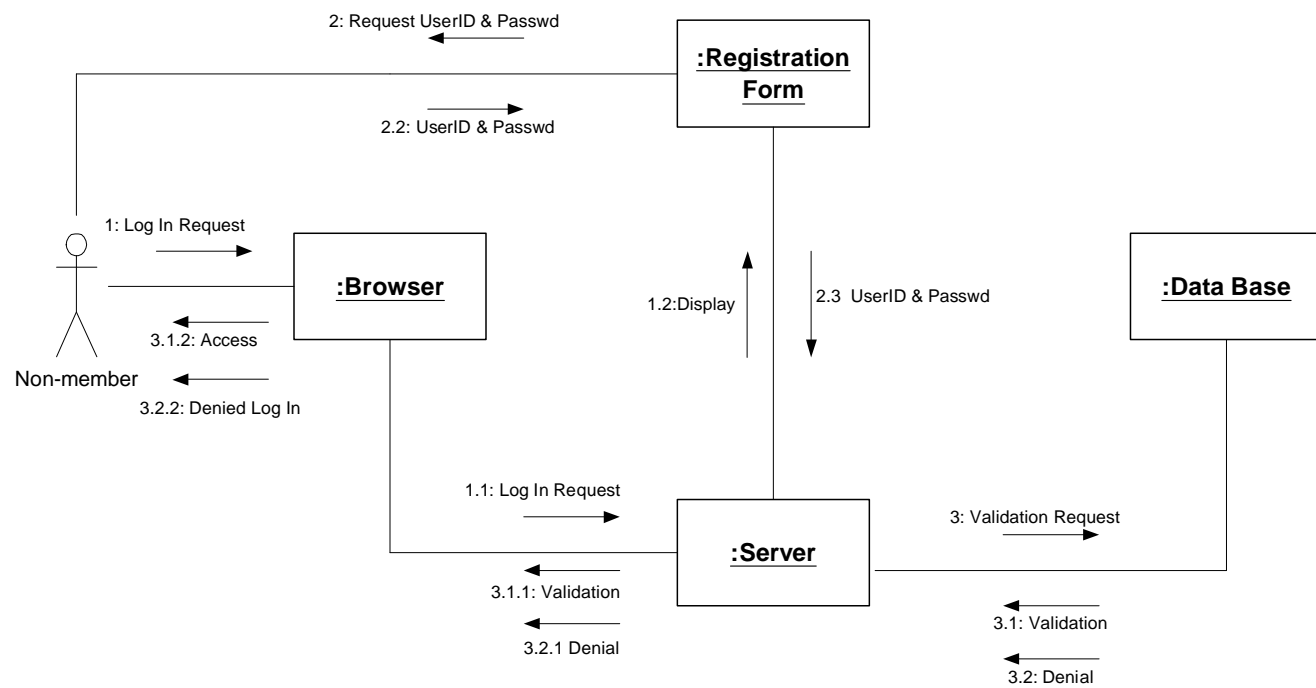## 3.2.1.4 Sequence Diagram: Registration
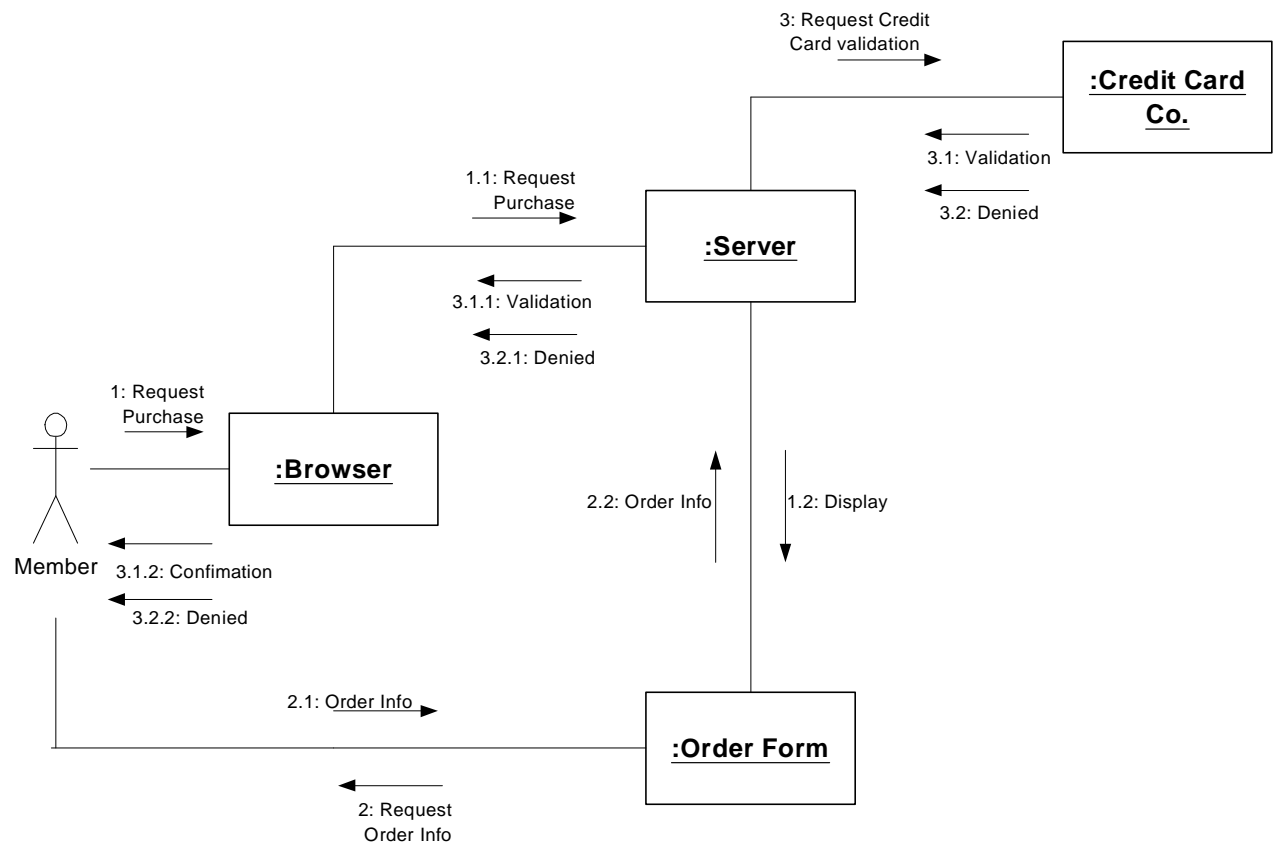
3.2.2   Collaboration Diagrams

3.2.21. Download Collaboration Diagram

3.2.2.2 Log In Collaboration Diagram
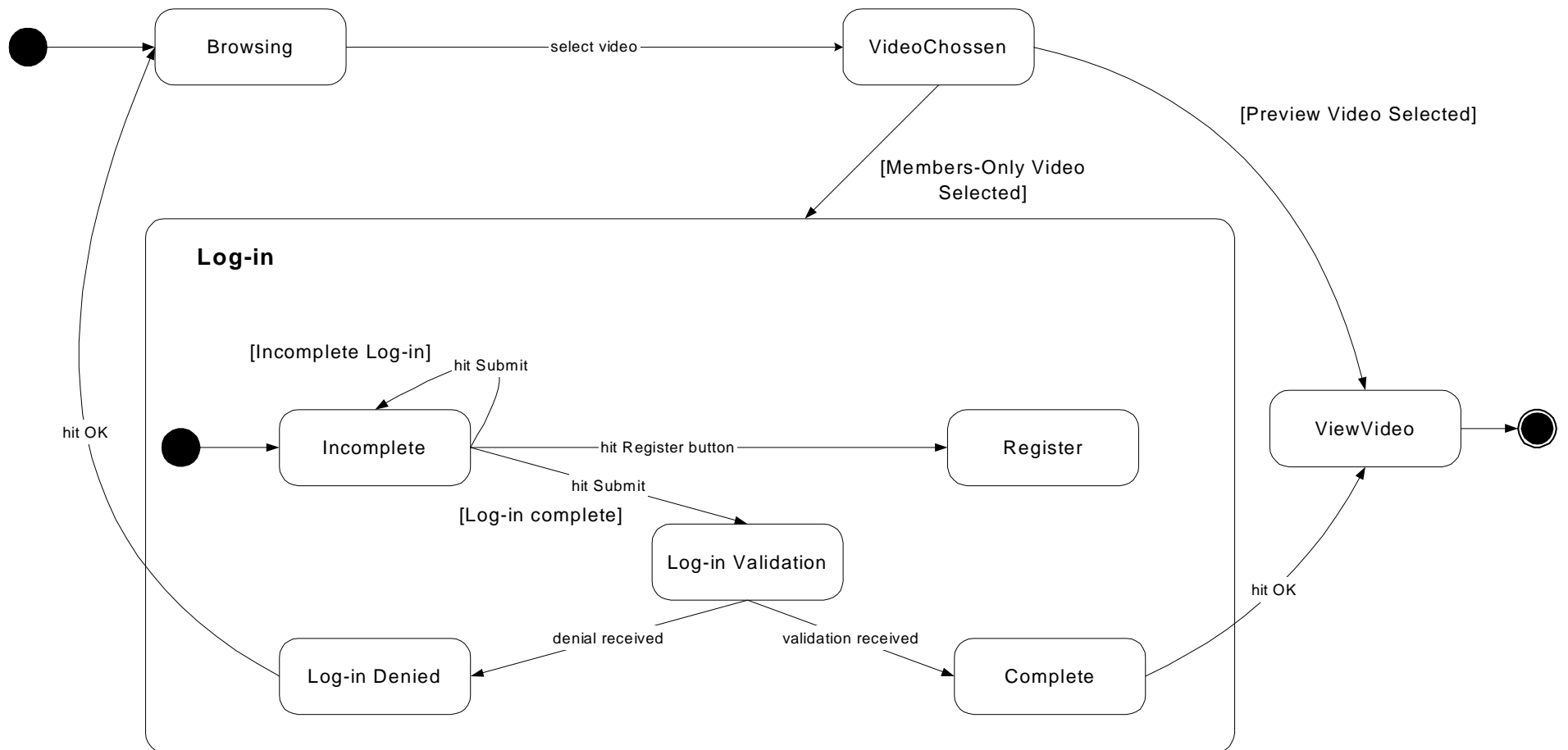
3.2.2.3 Purchase DVD Collaboration Diagram

3: Request Credit Card validation

:Credit Card Co.

1.1: Request Purchase

:Server

3.1: Validation

3.2: Denied

3.1.1: Validation

3.2.1: Denied

1: Request Purchase

:Browser

Member

3.1.2: Confimation

3.2.2: Denied

2.2: Order Info

1.2: Display

2.1: Order Info

:Order Form

2: Request Order Info

3.2.2.4 Registration Collaboration Diagram
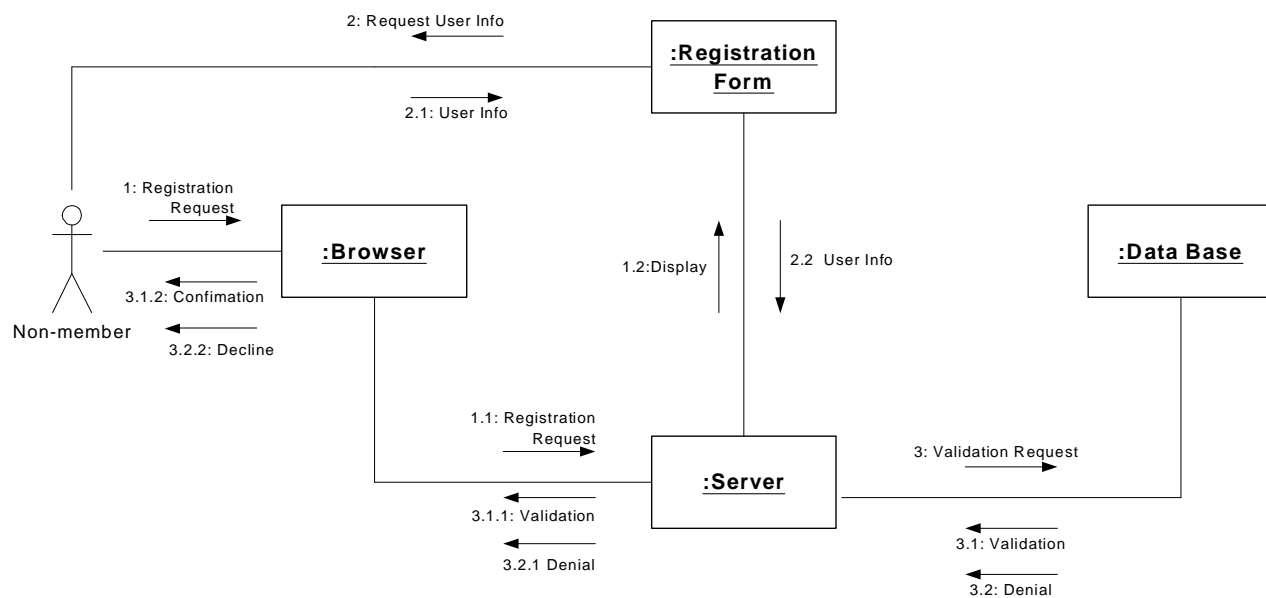
3.2.3 State Transition Diagrams

3.2.3.1 Download/Log In State Transition Diagram

3.2.3.2 Registration State Transition Diagram

Browsing

Log-in

select Register button

select Register button

hit OK

Register

[Incomplete
Registration]

hit Submit

[Registration
complete]

Incomplete

hit Submit

Registration
Validation

hit OK

denial received

validation received

Registration
Denied

Complete
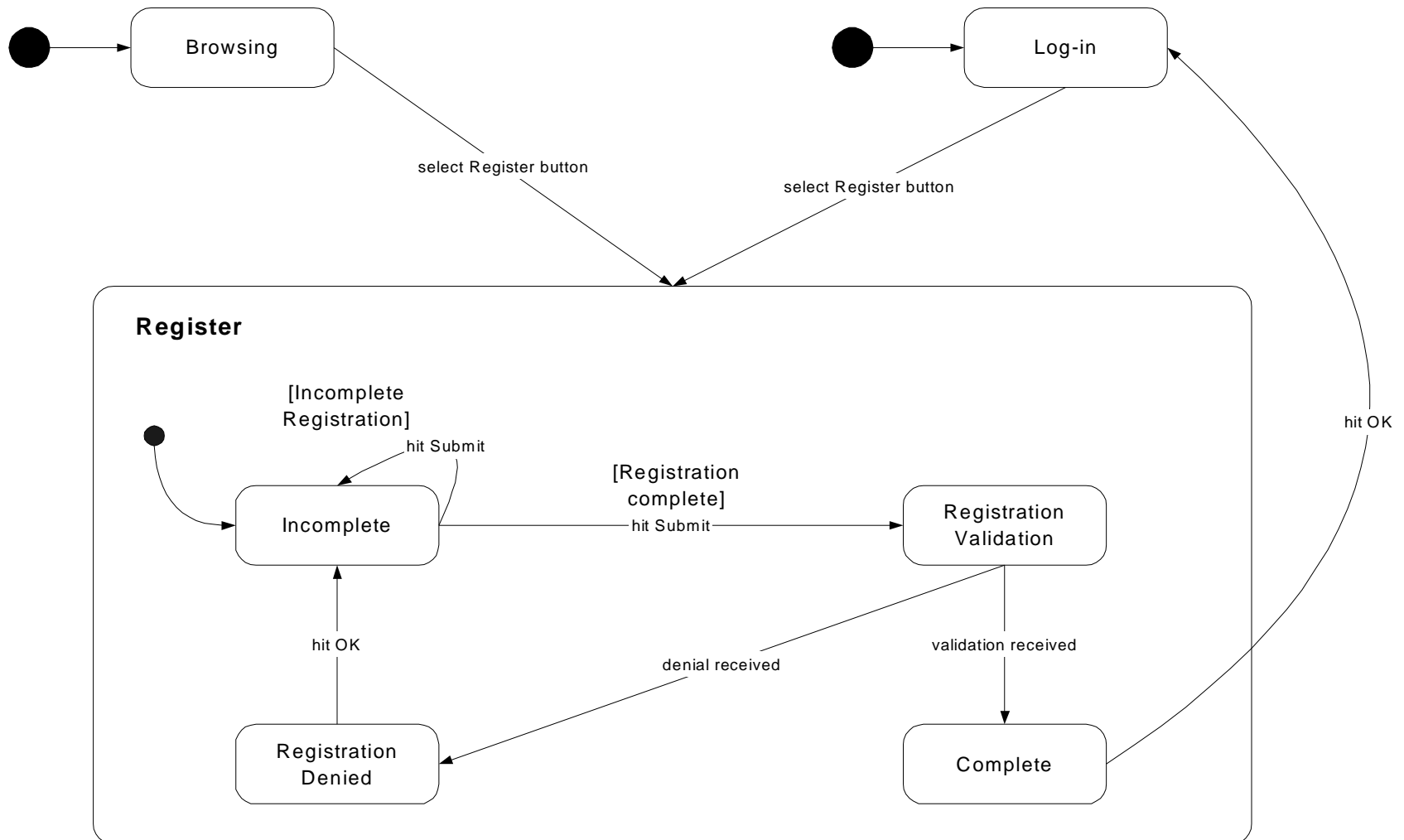
3.2.3.3 Purchase DVD State Transition Diagram
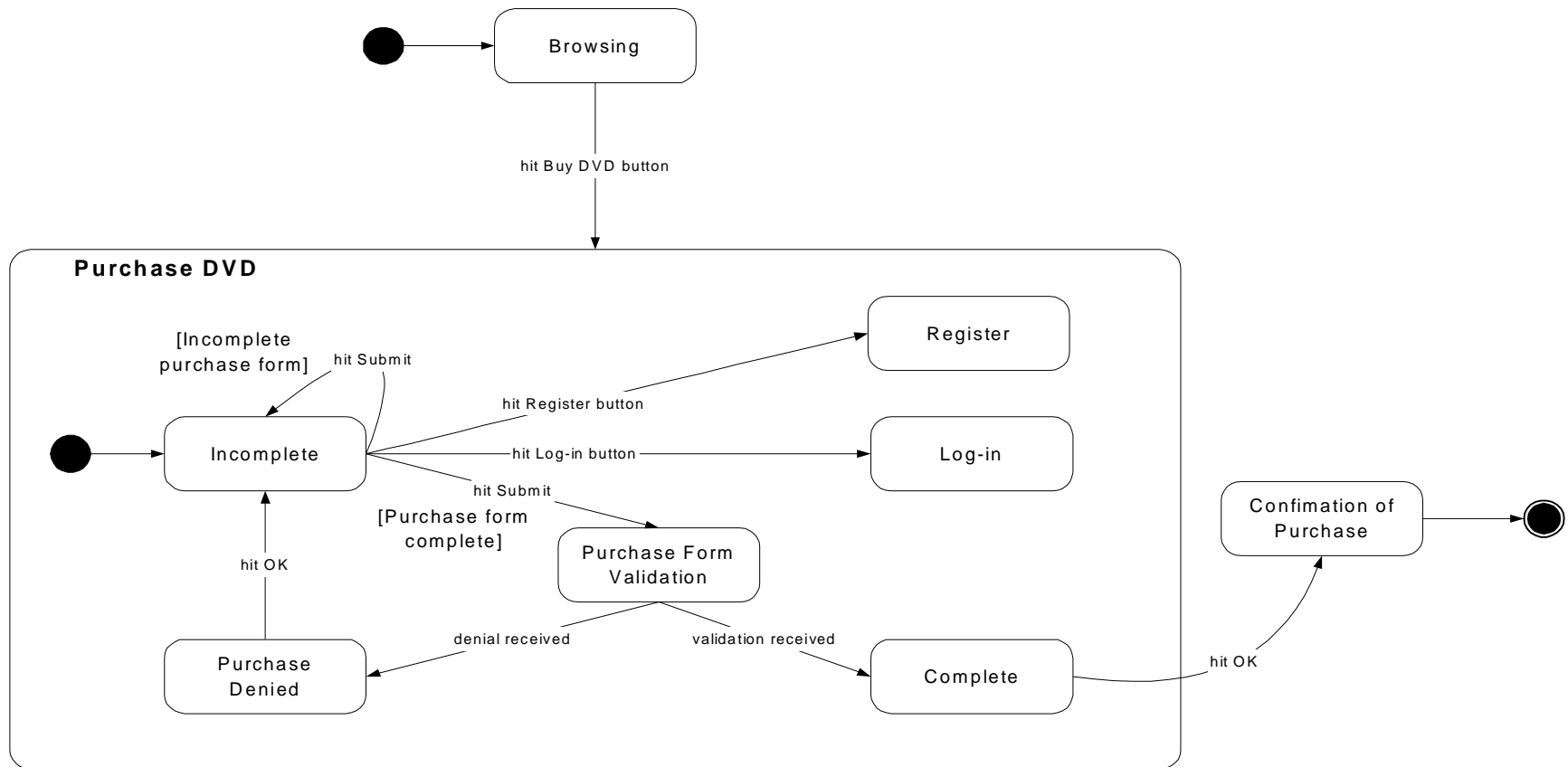
4. Outside-In Driven Design

4.1 Front-End Design

4.1.1 Metaphors
- Submit: Metaphor for submit information to sever to be process
- Off: Metaphor to turn on and off the music
- Reset: Metaphor to erase all content in form
- Dance: Metaphor that will direct users to the dance page
- The Team: Metaphor that will direct users to the Team biographies' page
- Contact Us: Metaphor that will direct users to the Contact us page, in which the user can e-mail the administrator with any question or comments.
- Salsa: Metaphor that will direct users to the salsa page
- Bachata: Metaphor that will direct users to the bachata page
- Merengue: Metaphor that will direct users to the merengue page
- Home: Metaphor that will direct users to the main page
- Purchase DVD: Metaphor that will direct users to the Purchase DVD page In which the user can purchase the DVD with a credit card or by printing a mail in form.
- Highlights: Metaphor that will direct users to the highlights page
- Resources: Metaphor that will direct users to the Resources page
- History: Metaphor that will direct users to the history page of a particular genre.
- Forums: Metaphor that will direct users to the message board
- Beginner: Metaphor that will display users to the beginner section of a particular genre.
- Intermediate: Metaphor that will display users to the intermediate section of a particular genre.
- Advanced: Metaphor that will display users to the advanced section of a particular genre.
- Printer Friendly Version: Metaphor that will display a particular page in a printer friendly version

4.1.1.2 Mental Model

4.1.1.2.1 Outline Content

Main Page

- Main Section displaying logo, pictures and text (welcome section of web site)
- Log in section
- Links to all other sections of the web site
- Highlights section: will display the new or modify features of the web site

- Dance Clubs: will advertise dance events around the area

FAQ

- In this page the most common questions on the mail goal of the website, functionality, videos and software needed, will be answer.
- Links to give the user quick access to the following pages will also be provided:
    - Team Bios
    - Message Board
    - Learn to Dance
    - Media Player

Contact Us

- From this page the users will be able to contact the administrator with any comments or questions they might have
- The following items will be required from the user:
    - Name
    - E-mail
    - Message

Team Bios

- Information on Group Members and Dancers will be Provided in this section
- A picture and contact information of each member will also be display

Registration Form

- This page will allow the user to register for our website, so he/she can have full access to the web site's features.
- The following information will be asked from the users when they register:
    - First Name
    - Last Name
    - Password (twice)
    - E-mail

Preview Video

- This section will be design to give potential customers a preview of out services.
- A video, pictures and written information breaking down a move will be provided.

Order Form

- There will be two versions of this form an on-line transaction version and a printout version.
- The Online Transaction version will allow the users to make a purchase by using their credit card.
- They will be asked the following information:

First Name	Address
Last Name	City
Phone #	State
E-mail	Country

- The printout form will be included in our page to allow our customer to make payments with money orders and or checks.
- The same information as the online transaction form (minus the credit card information) will be required from the customers in this printout form.

Dance

- Once the users clicks the link to the dance page he/she will be redirected to the new page, that will display the Beginner section of Salsa
- It will contain links to the other levels of instruction within Salsa (intermediate, advance) plus links to the genre's resource and history page.
- It will also contain links to the other Genres
- There will also be a "Highlights" and "Purchase DVD" section within this page

Beginner, Intermediate, Advance

- These sections will have an explanation on what the user should expect to learn in this level
- And a list of all the moves available under each category

Example
- Move1
- Move 2
- Move 3
- Move 4
- Etc.

Individual Move's Page

- In this page the client will be able to view a video demonstrating the selected move.

- A written description explaining step-by-step the selected move
- And Pictures breaking down each move will also be provided
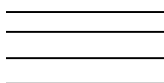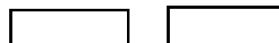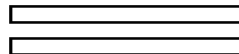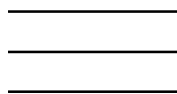
Highlights

This section will have links to the new or just modify sections of the web site

4.1.1.2.2 Outline Content and Functionality

Beginning Intermediate Advanced
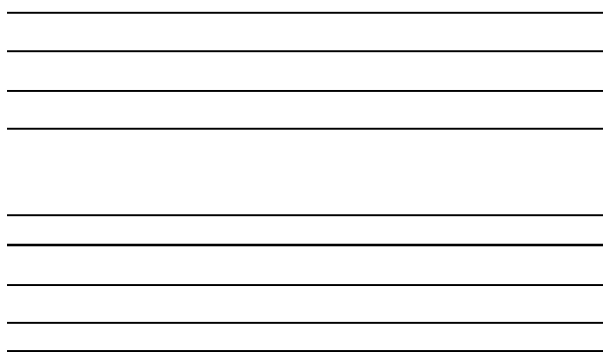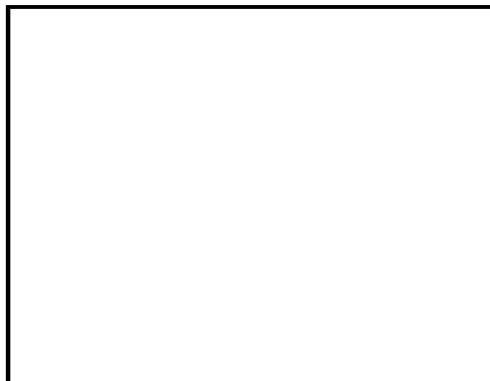
Team Bios

Contact Us

FAQ's

History

Home

Products

Team

4.1.1.3. Navigation Rules

1. Register
    a. Open Website
        i. Splash Page appear
    b. Enter Home page
    c. Click the New Member button at the lower right hand side of main page
    d. Fill in all required fields in the form
    e. Click Submit

2. Log-in
    a. Open Website
        i. Splash Page appear
    b. Enter Home page
    c. Enter Use ID and Password in main page
    d. Hit Enter

3. Download Basic Salsa move in Intermediate section.
    a. Open Website
        i. Splash Page appear
    b. Enter Home page
    c. Register to become a member or Log in if you have a UserID and password
    d. Go to Dance Section
    e. Go to Salsa Section
    f. Go to Intermediate Section
    g. Go to Basic move page

4. Go to Merengue History page
    a. Open Website
        i. Splash Page appear
    b. Enter Home page
    c. Register to become a member or Log in if you have a UserID and password
    d. Go to Dance Section
    e. Go to Merengue Section
    f. Click History link located at left hand side of page

5. Purchase DVD
    a. Open Website
        i. Splash Page appear
    b. Enter Home page
    c. Register to become a member or Log in if you have a UserID and password

       d. Go to Dance section
       e. Go to Purchase DVD section

6. Post a Message in the Message Board
       a. Open Website
            i. Splash Page appear
       b. Enter Home page
       c. Register to become a member or Log in if you have a UserID and password
       d. Click the Forums button
       e. Pick a Genre
       f. Select a thread in which to post message or create a new thread
       g. Write message
       h. Hit submit

4.1.1.4 Look - How appealing is the GUI? What's the difference?

The SalsaPartyWalk.com interface is very appealing to the users. Light blue colors in conjunction with black text on white backgrounds come together to make the interface very easy on the eyes. The usage of colors and text strive to make the page a pleasant experience for the user while still maintaining a fresh and new look. As an introduction, the web site opens up to a flash intro, utilizing vectorized images captured from the website's dance videos. Once the user has gained access to the first page of the website, he/she may notice something very convenient. Links to all of the website's sections (including the history sections) are available on this first page. This is an advantage to someone who has never been to the page before; they know exactly where everything is located upon entering the website. Still another attribute that makes this page so appealing is the consistency used for each individual section. Regardless of what part of the site is being viewed, a user maintains the same feeling he/she had when they first entered the site. The site's consistency also contributes to how oriented a user feels on the website. For example, each link and title is organized exactly the same way on each section making it easier for the user to read and find information on the website.

Last but not least, the website contained a good navigation. Many websites tend to have too many options or buttons to click on and sometimes do not allow the option to return back to home. SalsaPartyWalk.com provides a smooth and easy navigational process for the users so that again, they are well oriented and their experience is a positive one. All of these techniques work together to create a look that is both attractive and easy to use.

The secret that sets SalsapartyWalk.com aside from other sites in terms of look lies within one idea. SalsaPartyWalk.com focuses on what the users want and so designed the site interface to accommodate those needs. The site's main focus is user friendliness. It was necessary for the interface to be easy to use for the average user considering it was created for them. Once requirements for user friendliness have been met, the website focuses on appearance. Features such as the intro page and dance videos, makes the look very distinctive. These two concepts being the main focus are what make SalsaPatyWalk.com different from many other dance websites. Features that were focused on here were what other dance websites have overlooked.
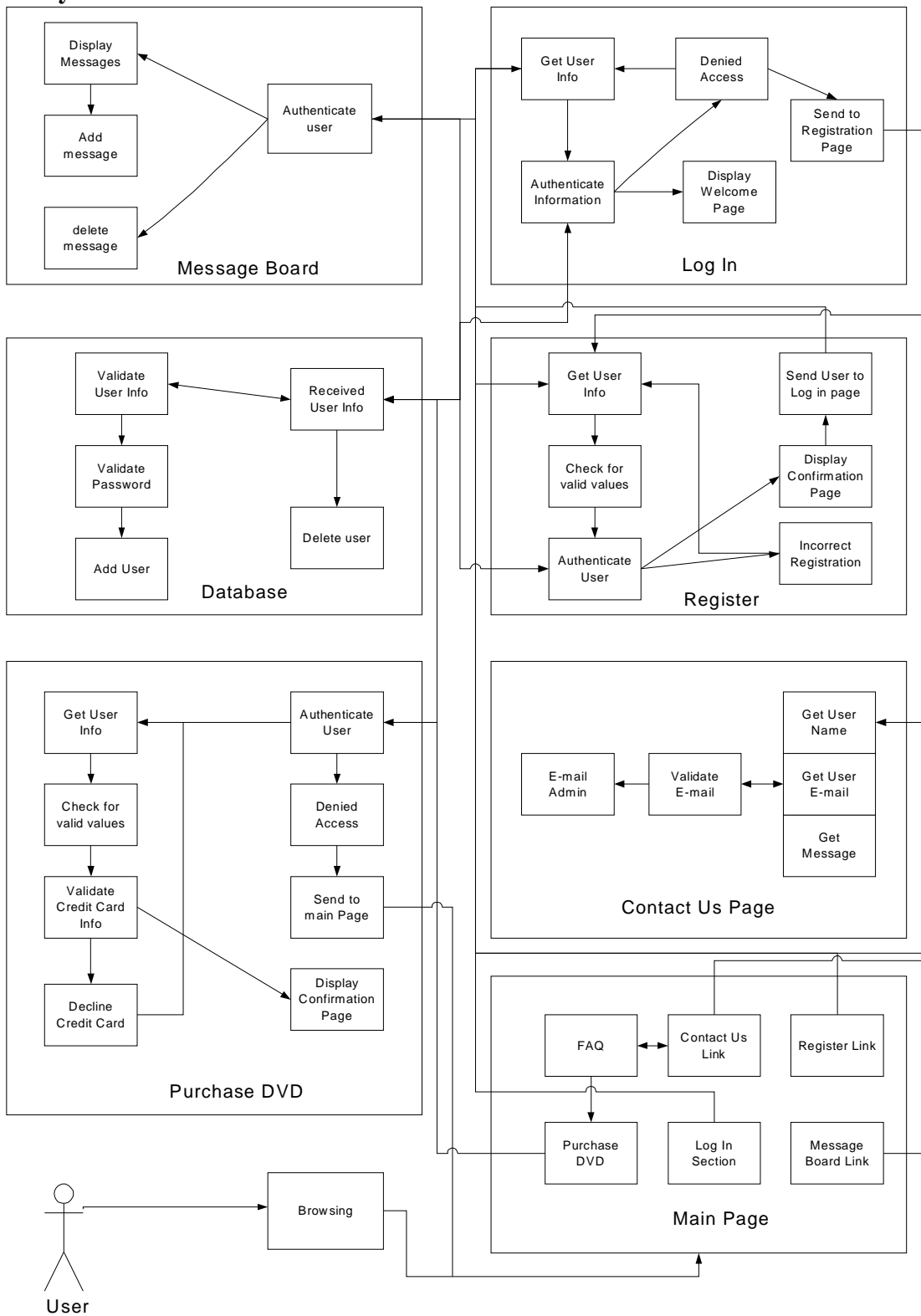
4.1.1.5 Feel – Interactivity

SalsaPartyWalk.com provides users the opportunity to interact with the system. If a user wants to contact the website administrator, he/she may do so through the contact page. By clicking on the "Contact Us" link, the user can email their questions and/or concerns to the system's administrator. A user may not necessarily have a question or concern, rather just a comment or message that they may want others to benefit from. If this is the case then they can simply do so by clicking on the Message Board link. In using the website's message board the user will be able to interact with not only the SalsaPartyWalk.com dancers but also with other users of the website. Including interactivity in the website is a good way to keep users interested, therefore making it easier for them to revisit the site once again.
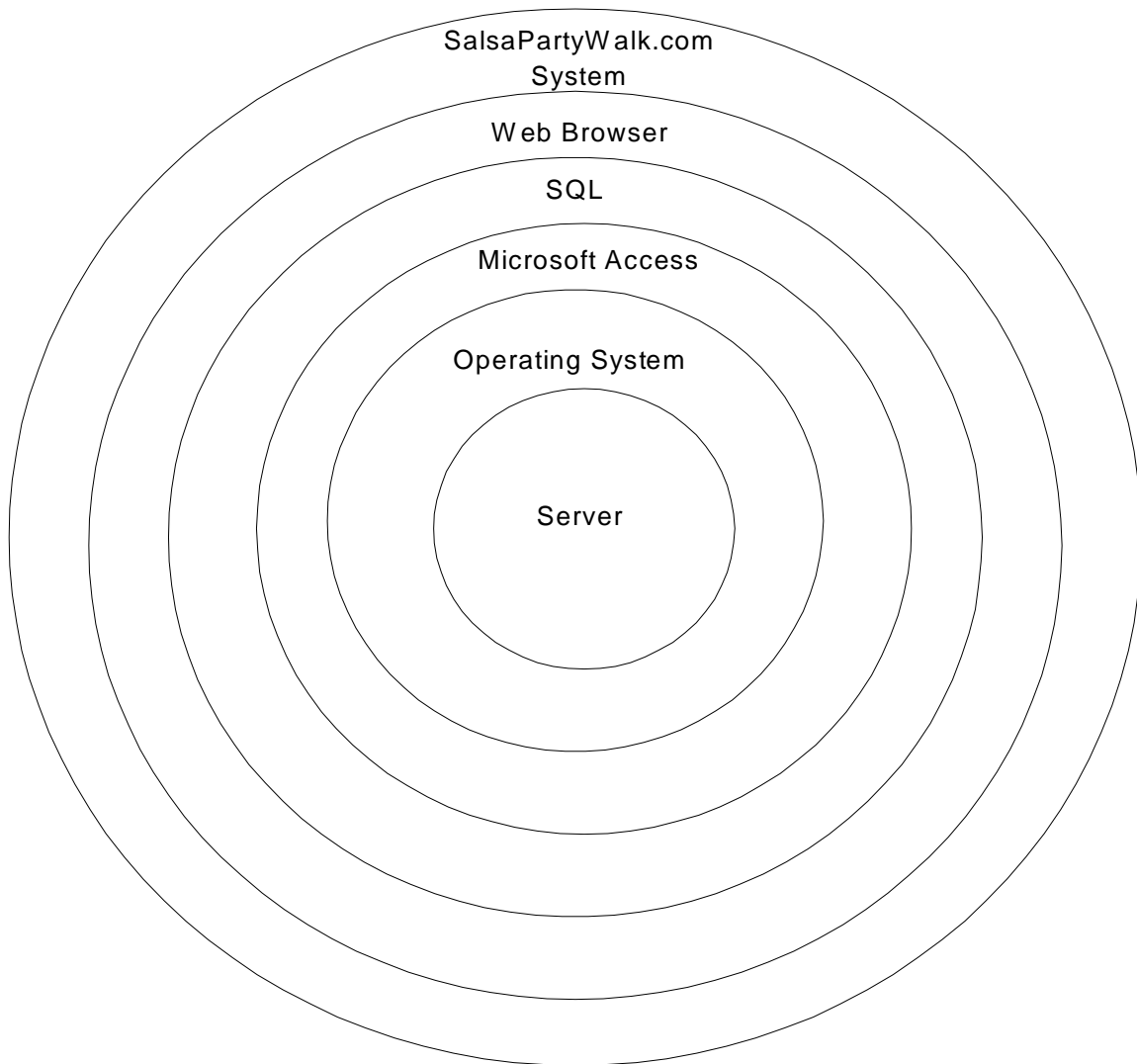
The way that a user feels when he/she visits the website is very important because it influence their opinion of how good the website actually is. For ease of use the user is provided with many help options. The Frequently Asked Questions for example allows users to post and read messages regarding any problems or questions they may have. Links to other dance related sites are also provided so that users can find any other information on dance via other websites. If for any reason there is a question or problem that users feel need to be addressed to the website administrator, then they may do so via the contact page. In addition, error messages and tips appear throughout the site to aid the user while searching and entering information. This is seen on the registration page for example where a user is prompted if the required information is not entered. With so many resources available to the users and so much interaction within the web page, users will definitely be pleased at the end of their experience.

5. Architectural Design
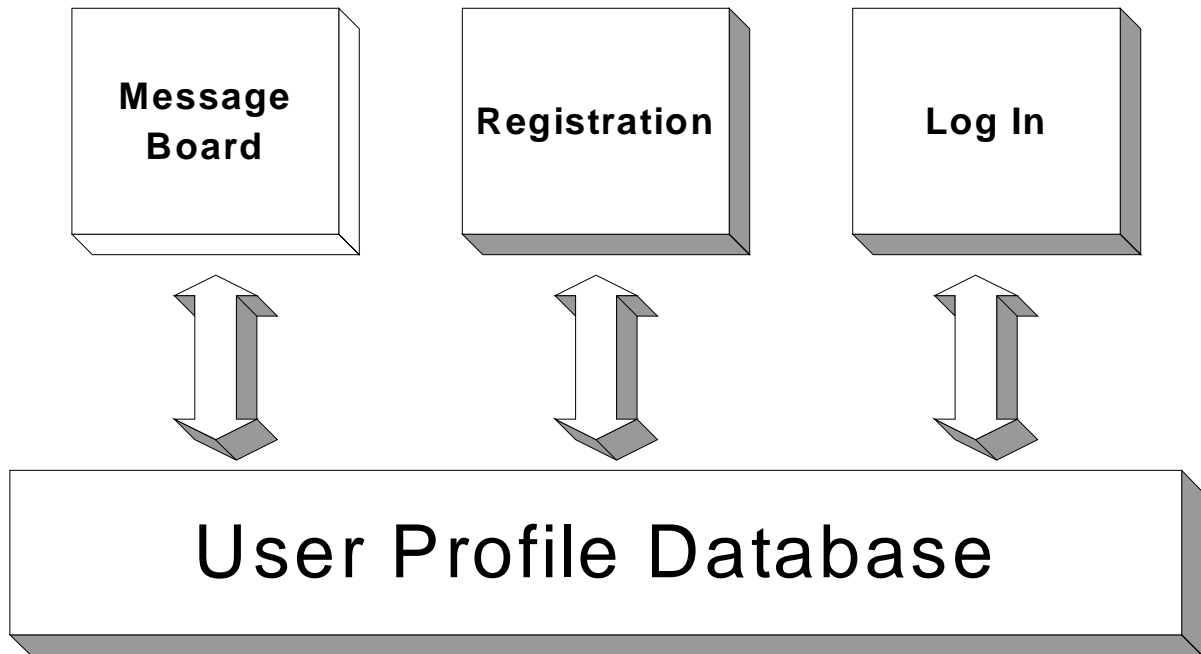
5.1 System Structure

Message Board

Log In

Database

Register

Purchase DVD

Contact Us Page

Main Page

User

5.2 Abstract Machine Model

SalsaPartyWalk.com
System

Web Browser

SQL

Microsoft Access

Operating System

Server

5.3 Repository Model

Message
Board

Registration

Log In

User Profile Database
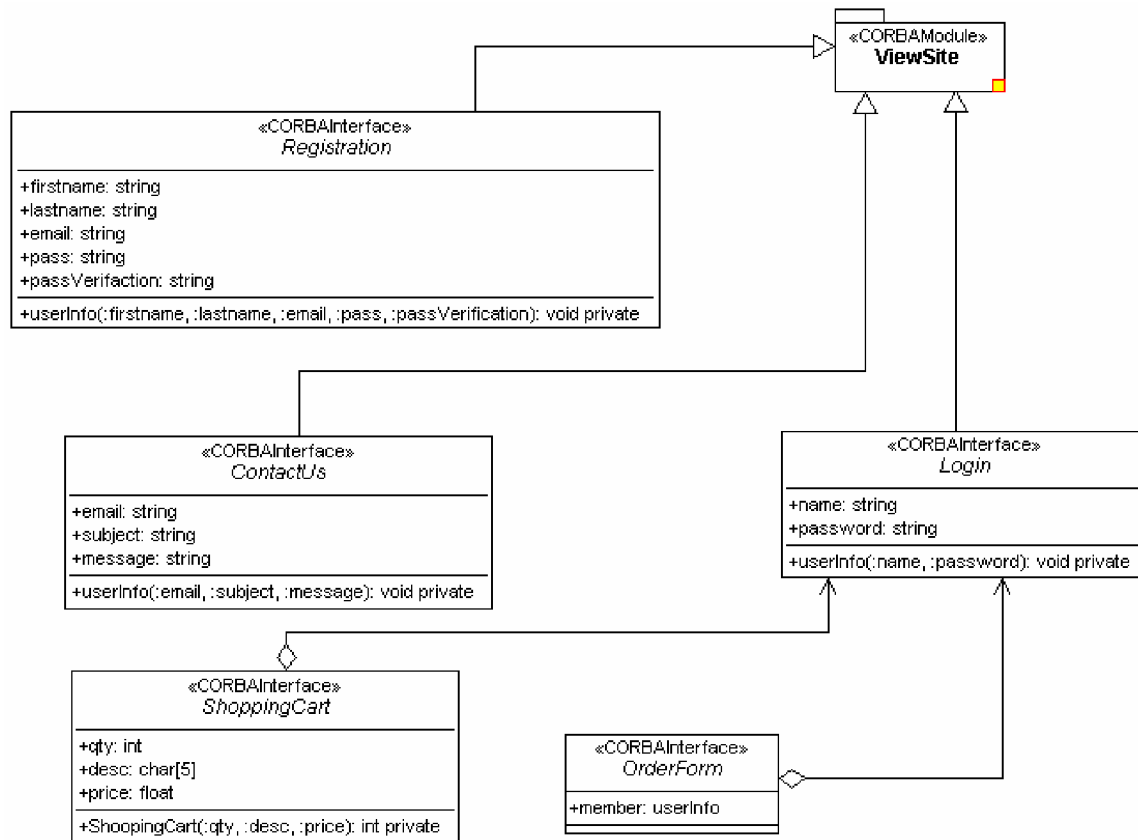
5.4 Client Server Model
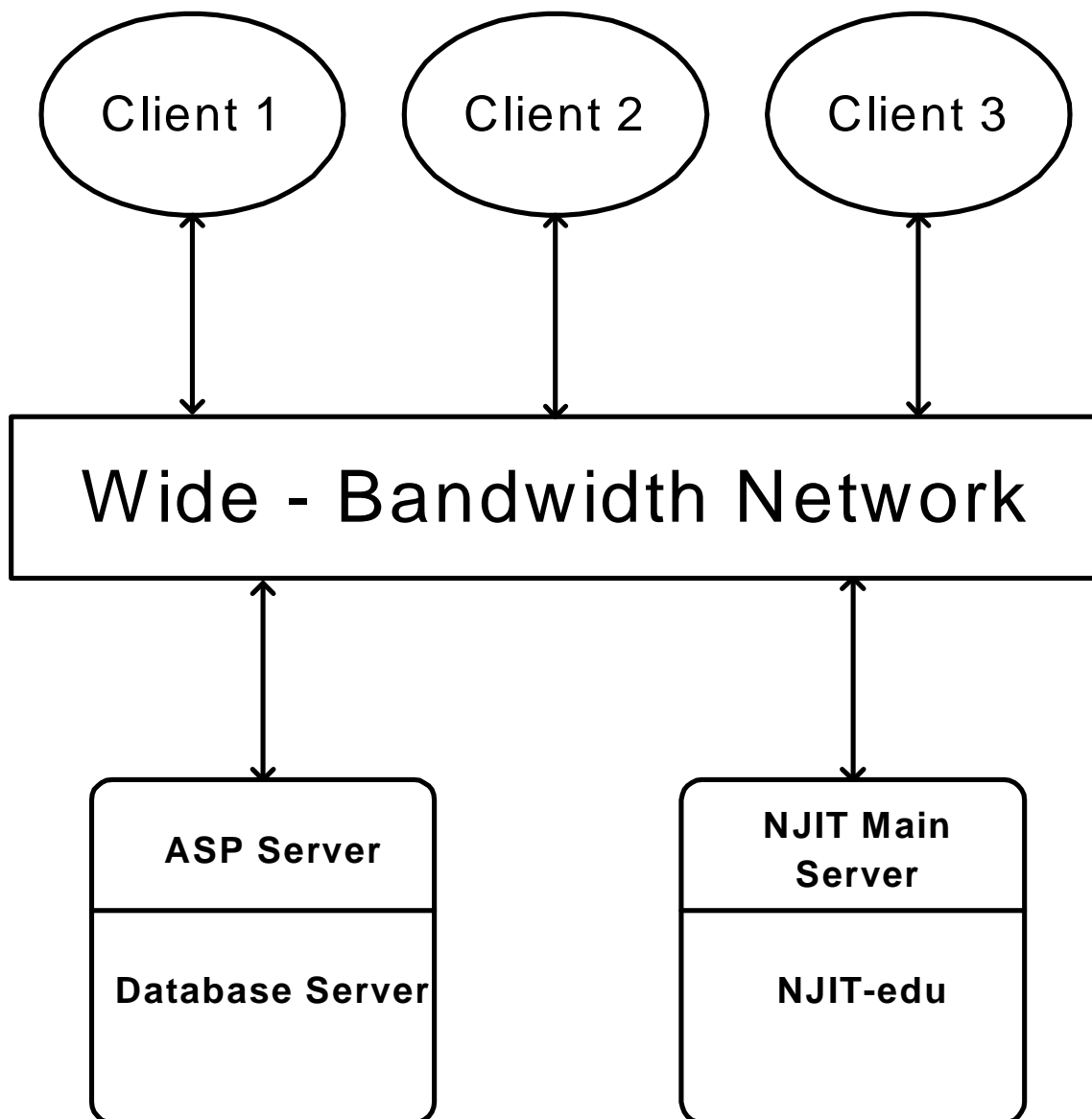
6. Salsa Party Walk CORBA Diagram Models

SalsaPartyWalk (public class model)
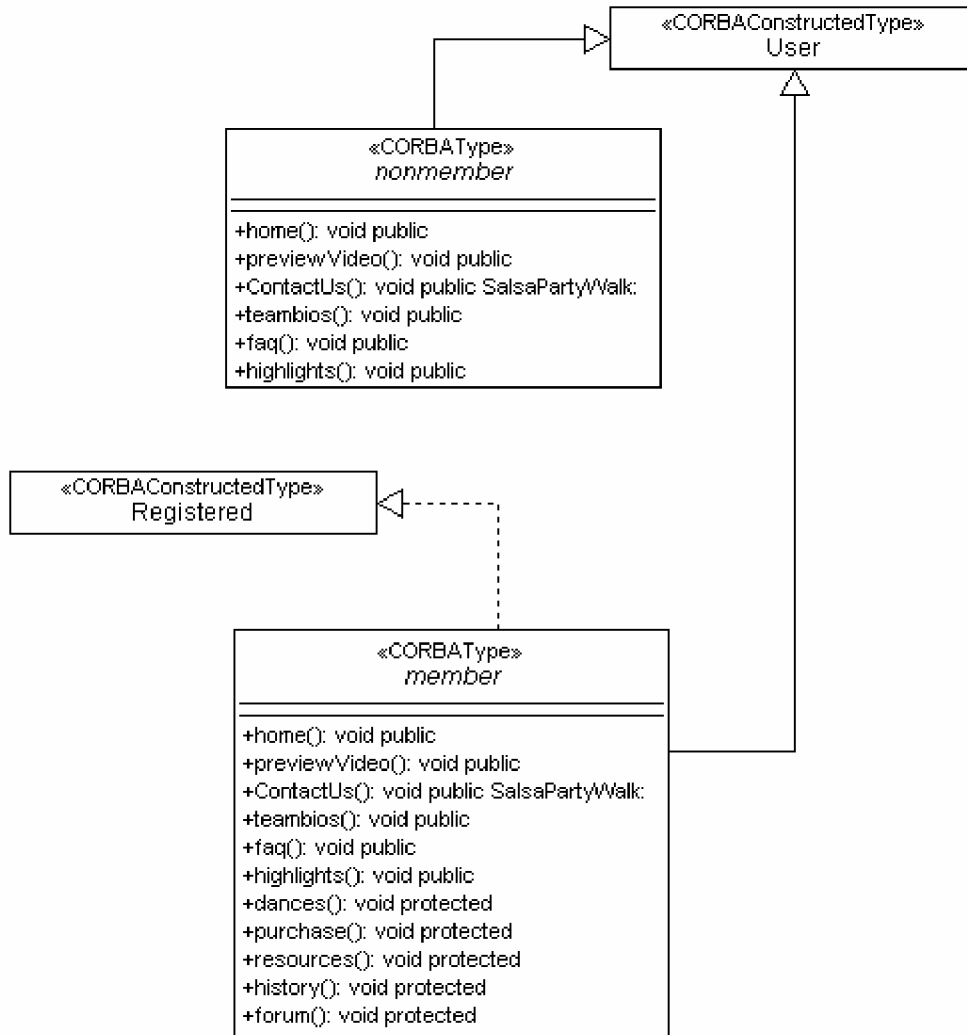
Parent: SalsaPartyWalk
Contains: Login, Registration, ContactUs, ShoppingCart, OrderForm, ViewSite.

ViewSite (public class model)

Parent: ViewSite
Contains: member, nonmember, User, Registered.

Login (package Class/Interface)

Bases: public **ViewSite**.

Methods: public **userInfo (: in name, : in password) : void private**

Get/Set:

Attributes: public **name: string**

public **password: string**

Registration (package Class/Interface)

Bases: public **ViewSite**.

Methods: public   **userInfo (: in firstname, : in lastname, : in email, : in pass, : in passVerification) : void private**

Get/Set:

Attributes: public **firstname: string**

public **lastname: string**

public **email: string**

public **pass: string**

public **passVerifaction: string**

ContactUs (package Class/Interface)

Bases: public **ViewSite**.

Methods: public **userInfo (: in email, : in subject, : in message) : void private**

Get/Set:

Attributes: public **email: string**

               public **subject: string**

               public **message: string**

ShoppingCart (package Class/Interface)

Methods: public **ShoopingCart (: in qty, : in desc, : in price) : int private**

Get/Set:

Attributes: public **qty: int[5]**

               public **desc: char[5][30]**

               public **price: float[5]**

Relations: public **unnamed: --> <Login>***

OrderForm (package Class/Interface)

Get/Set:

Attributes: public **member: userInfo**

Relations: public **unnamed: --> <Login>***

ViewSite (public Package/Task)

Submodel: ViewSite

member (package Class/Interface)

Bases: public **User**.

Methods: public **home () : void public**

               public **previewVideo () : void public**

               public **ContactUs () : void public SalsaPartyWalk:**

               public **teambios () : void public**

               public **faq () : void public**

               public **highlights () : void public**

               public **dances () : void protected**

               public **purchase () : void protected**

public **resources () : void protected**

public **history () : void protected**

public **forum () : void protected**

nonmember (package Class/Interface)

Bases: public **User**.

Methods: public **home () : void public**

public **previewVideo () : void public**

public **ContactUs () : void public SalsaPartyWalk:**

public **teambios () : void public**

public **faq () : void public**

public **highlights () : void public**

User (public Class/Interface)

Registered (public Class/Interface)