

Over-The-Top Media Services

Bachelor of Technology

in

Information Technology

by

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Under the guidance of

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DECLARATION

I hereby declare that the thesis entitled “Over-The-Top Media Services” submitted by me, for the award of the degree of *Bachelor of Technology in Information Technology* to VIT is a record of bonafide work carried out by me under the supervision of Prof. Prabhu J

I further declare that the work reported in this thesis has not been submitted and will not be submitted, either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university.

Place: Vellore

Date: November 2020

Raghav

Signature of the Candidate

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EXECUTIVE SUMMARY

An **over-the-top (OTT) media service** is a streaming media service offered directly to viewers via the Internet. OTT bypasses cable, broadcast, and satellite television platforms, the companies that traditionally act as a controller or distributor of such content. It has also been used to describe no-carrier cellphones, where all communications are charged as data, avoiding monopolistic competition, or apps for phones that transmit data in this manner, including both those that replace other call methods and those that update software.

The term is most synonymous with subscription-based video-on-demand (SVoD) services that offer access to film and television content (including existing series acquired from other producers, as well as original content produced specifically for the service).

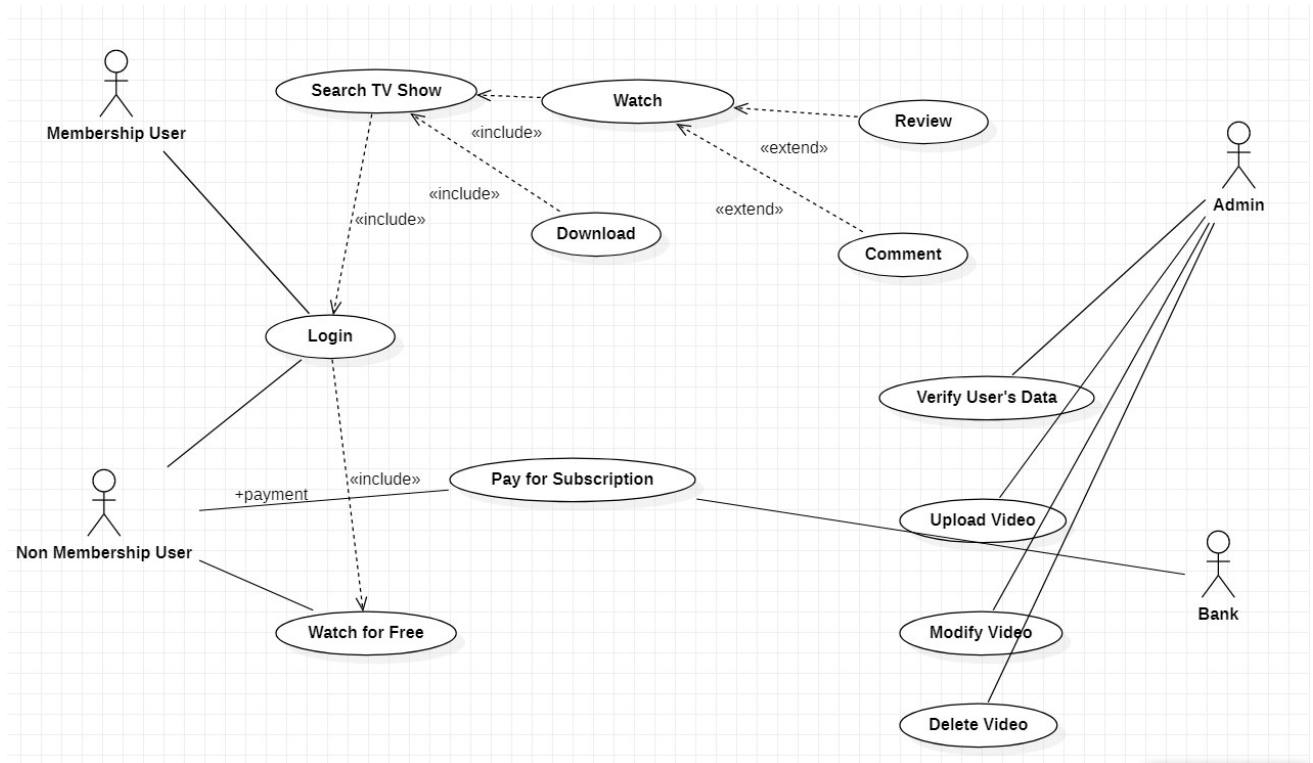
OTT also encompasses a wave of "skinny" television services that offer access to live streams of linear specialty channels, similar to a traditional satellite or cable TV provider, but streamed over the public Internet, rather than a closed, private network with proprietary equipment such as set-top boxes.

Over-the-top services are typically accessed via websites on personal computers, as well as via apps on mobile devices (such as smartphones and tablets), digital media players (including video game consoles), or televisions with integrated Smart TV platforms.

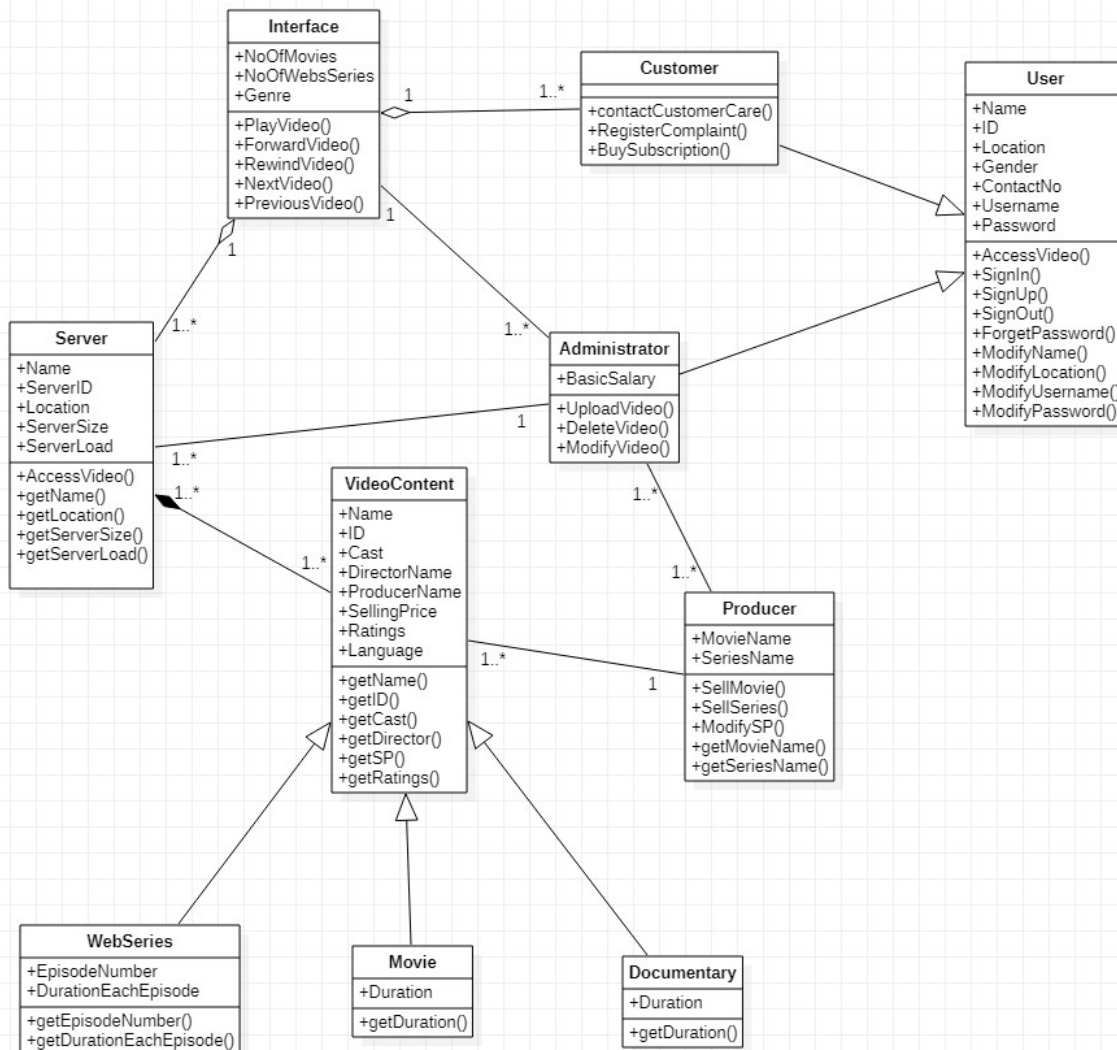
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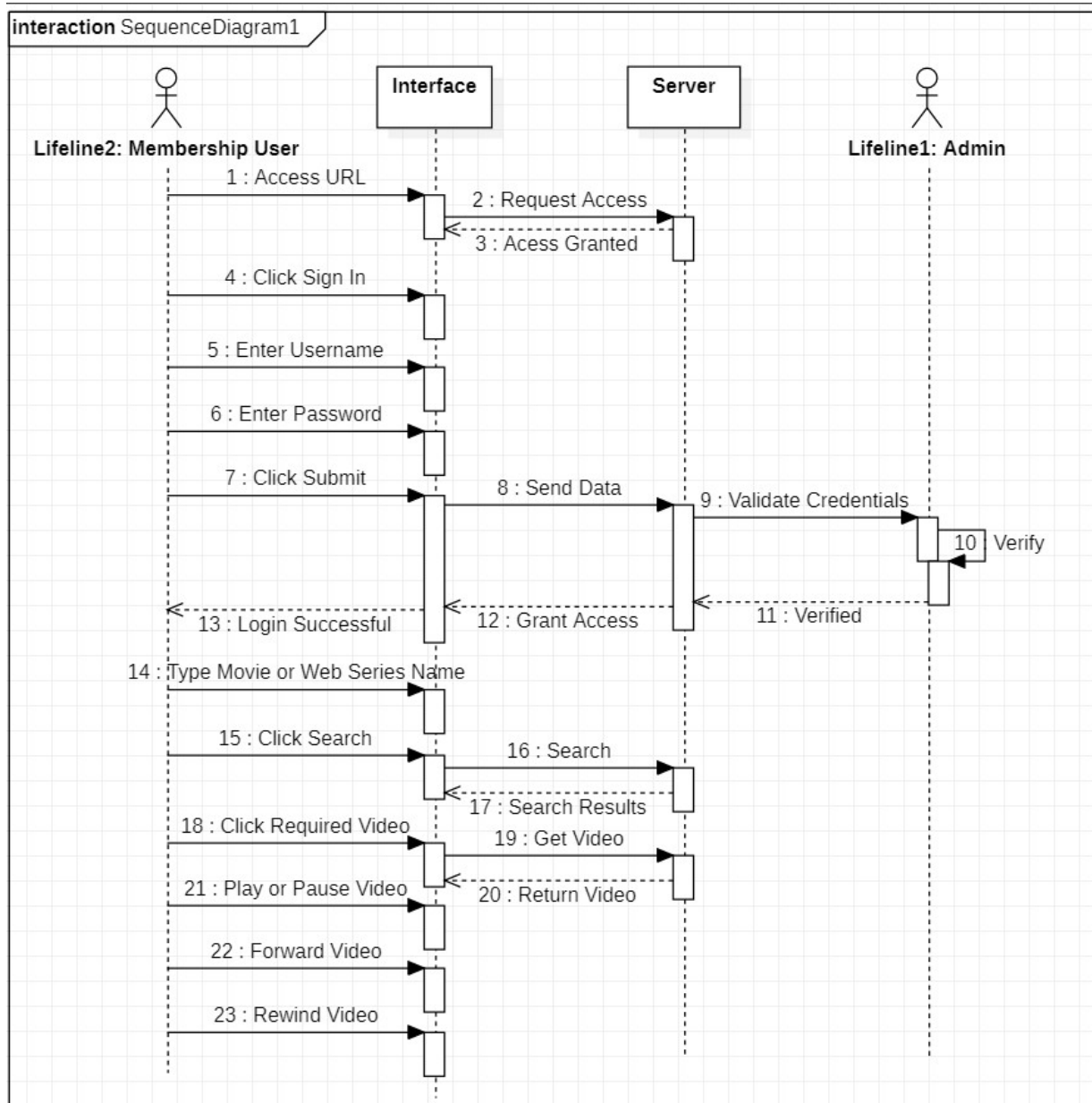
Use Case Diagram:



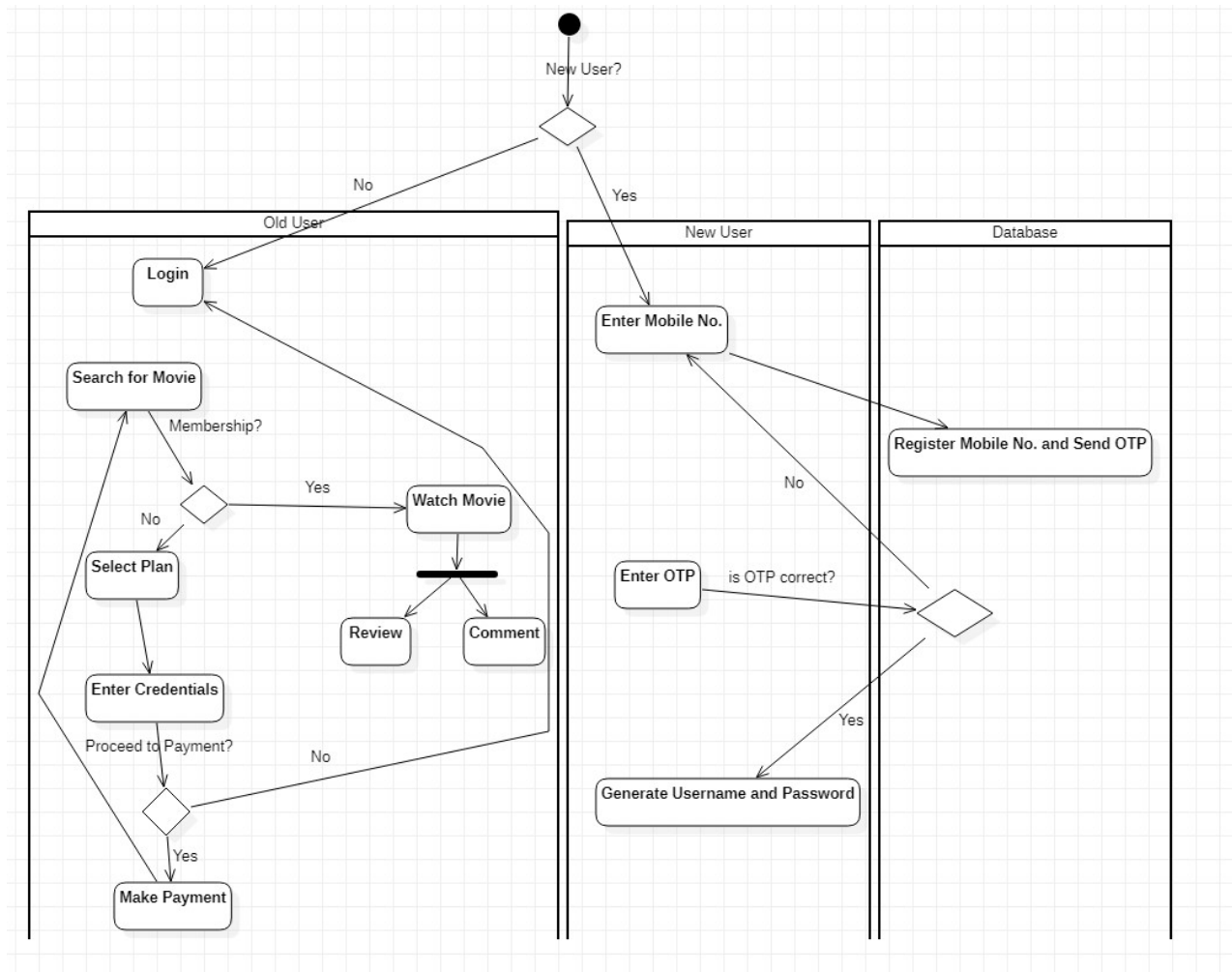
Class Diagram:



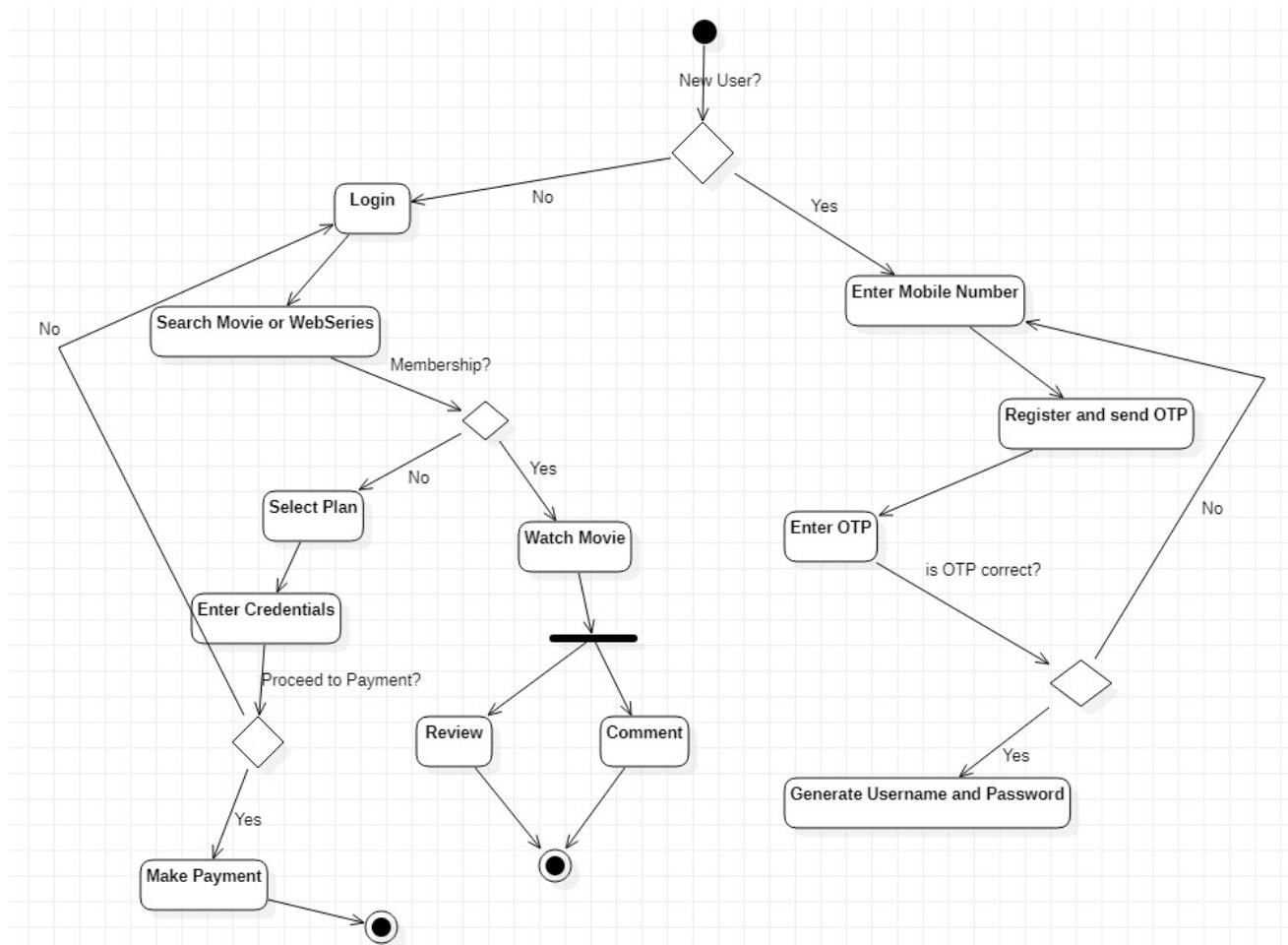
Sequence Diagram:



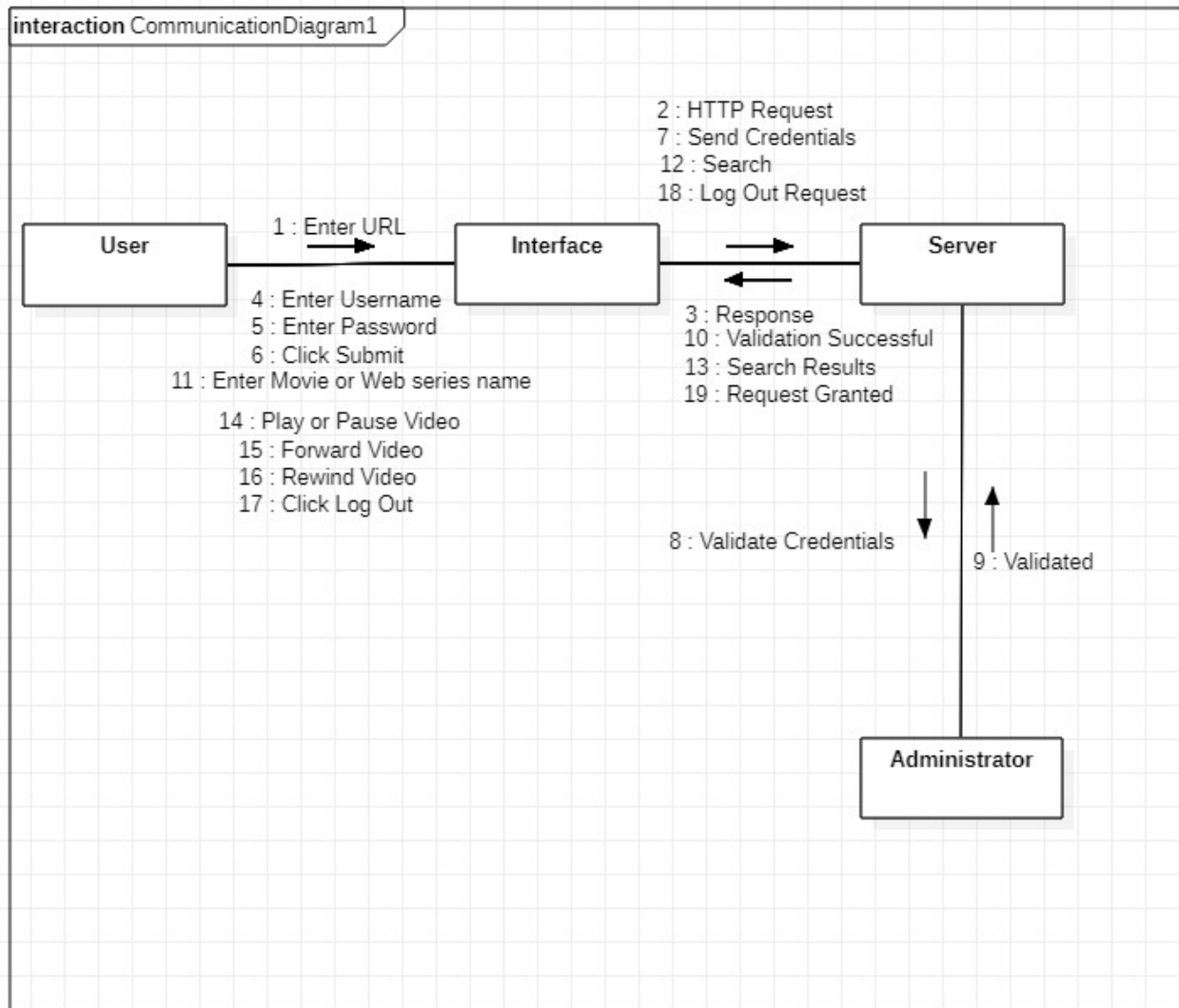
Activity Diagram:



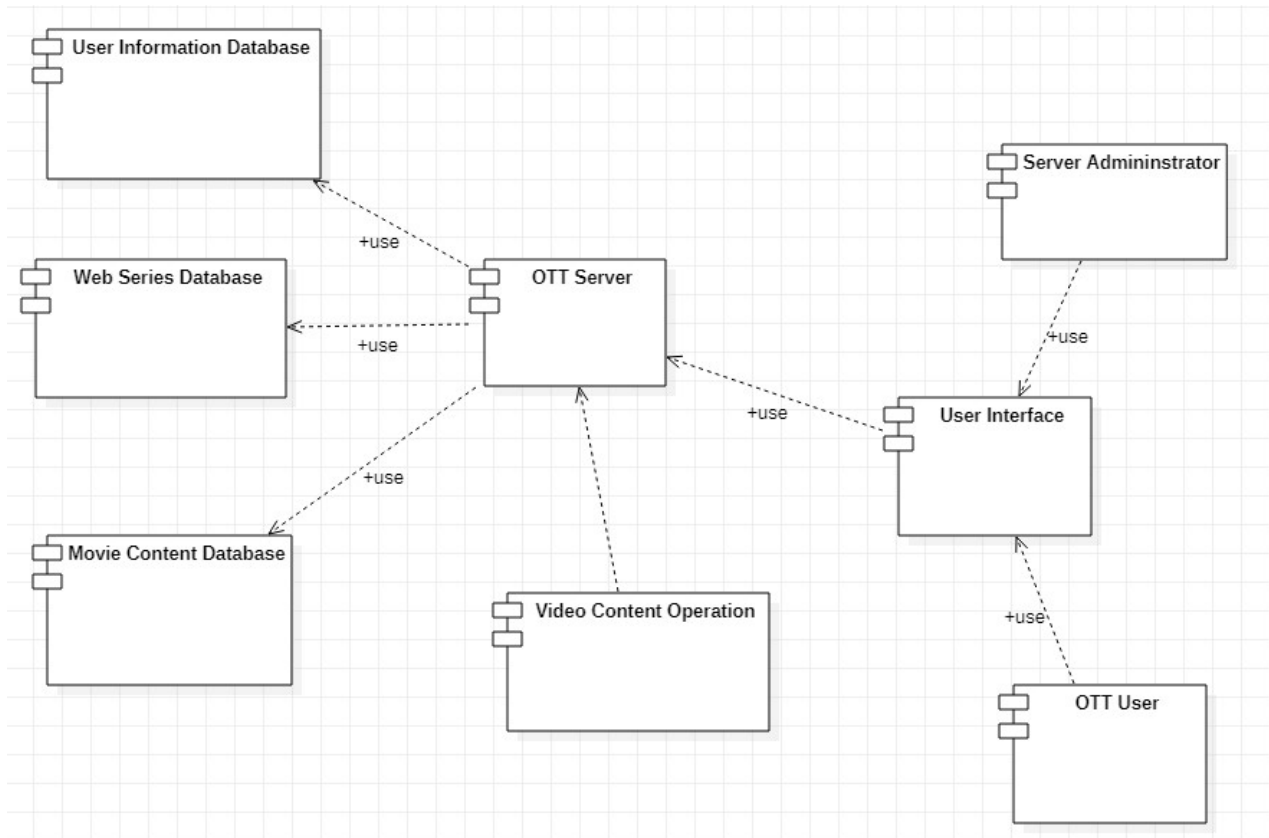
State Transition Diagram:



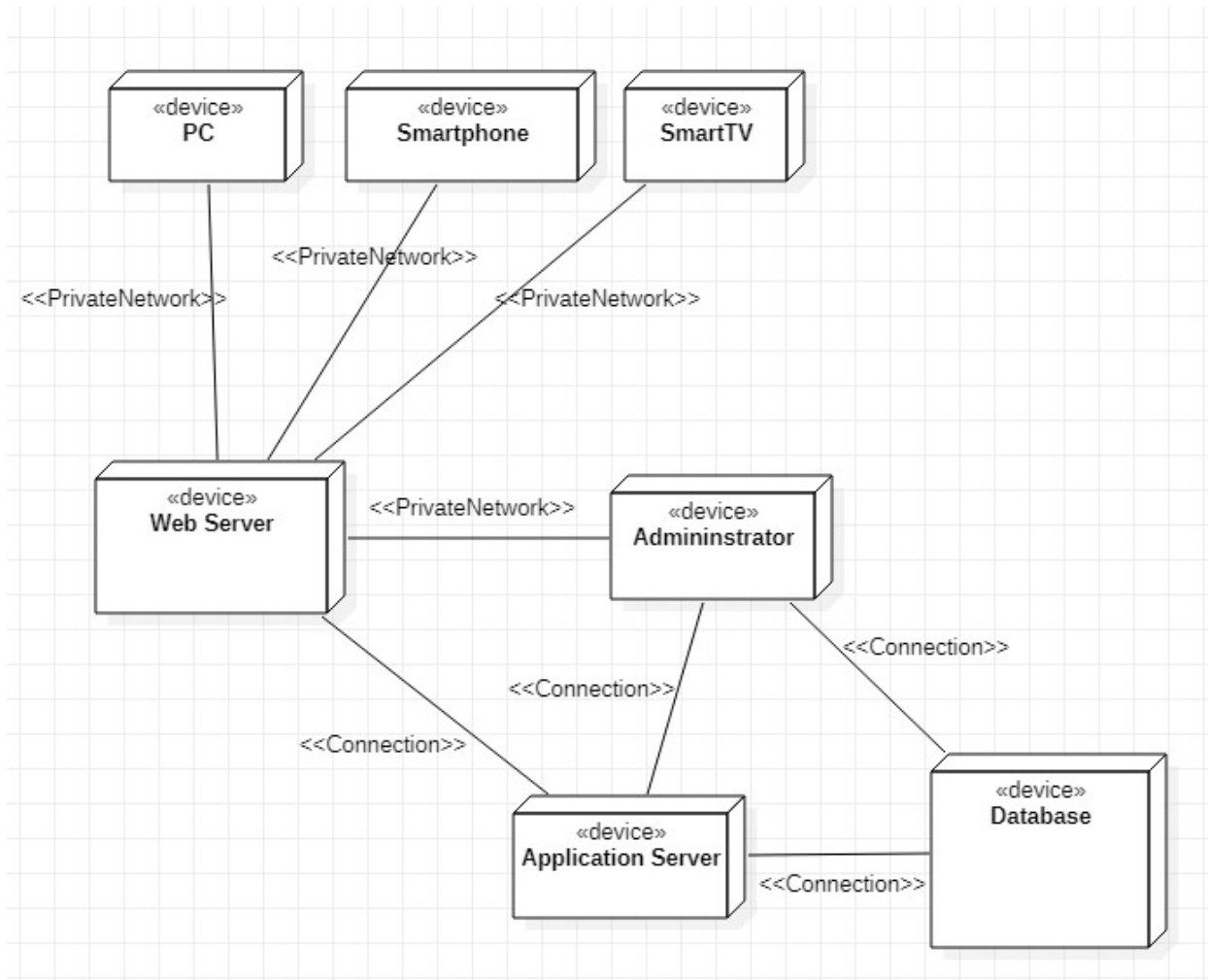
Collaboration Diagram:



Component Diagram:



Deployment Diagram:



Code Generation:

Customer.java:

```
import java.util.*;

/**
 *
 */
public class Customer extends User {

    /**
     * Default constructor
     */
    public Customer() {

    }

    /**
     *
     */
    public void contactCustomerCare() {
        // TODO implement here
    }

    /**
     *
     */
    public void RegisterComplaint() {
        // TODO implement here
    }

    /**
     *
     */
    public void BuySubscription() {
        // TODO implement here
    }

}
```

Documentary.java:

```
import java.util.*;

/**
 *
 */
public class Documentary extends VideoContent {

    /**
     * Default constructor
     */
    public Documentary() {
    }

    /**
     *
     */
    public void Duration;

    /**
     *
     */
    public void getDuration() {
        // TODO implement here
    }
}
```

Interface.java:

```
import java.util.*;

/**
 *
 */
public class Interface {

    /**
     * Default constructor
     */
    public Interface() {
    }
}
```

```

/**
 *
 */
public void NoOfMovies;

/**
 *
 */
public void NoOfWebsSeries;

/**
 *
 */
public void Genre;


/**
 *
 */
public void PlayVideo() {
    // TODO implement here
}

/**
 *
 */
public void ForwardVideo() {
    // TODO implement here
}

/**
 *
 */
public void RewindVideo() {
    // TODO implement here
}

/**
 *
 */
public void NextVideo() {
    // TODO implement here
}

/**

```



```

        *
        */
    public void PreviousVideo() {
        // TODO implement here
    }
}

```

Movie.java:

```

import java.util.\*;

/**
 *
 */
public class Movie extends VideoContent {

    /**
     * Default constructor
     */
    public Movie() {
    }

    /**
     *
     */
    public void Duration;

    /**
     *
     */
    public void getDuration() {
        // TODO implement here
    }
}

```

Producer.java:

```

import java.util.\*;

/**

```

```

*
*/
public class Producer {

    /**
     * Default constructor
     */
    public Producer() {
    }

    /**
     *
     */
    public void MovieName;

    /**
     *
     */
    public void SeriesName;

    /**
     *
     */
    public void SellMovie() {
        // TODO implement here
    }

    /**
     *
     */
    public void SellSeries() {
        // TODO implement here
    }

    /**
     *
     */
    public void ModifySP() {
        // TODO implement here
    }

    /**
     *
     */
    public void getMovieName() {

```

```

        // TODO implement here
    }

    /**
     *
     */
    public void getSeriesName() {
        // TODO implement here
    }
}

```

Server.java:

```

import java.util.*;

/**
 *
 */
public class Server {

    /**
     * Default constructor
     */
    public Server() {
    }

    /**
     *
     */
    public void Name;

    /**
     *
     */
    public void ServerID;

    /**
     *
     */
    public void Location;

    /**
     *
     */
}

```

```

public void ServerSize;

/**
 *
 */
public void ServerLoad;

/**
 *
 */
public void AccessVideo() {
    // TODO implement here
}

/**
 *
 */
public void getName() {
    // TODO implement here
}

/**
 *
 */
public void getLocation() {
    // TODO implement here
}

/**
 *
 */
public void getServerSize() {
    // TODO implement here
}

/**
 *
 */
public void getServerLoad() {
    // TODO implement here
}
}

```

User.java:

```
import java.util.*;

/**
 *
 */
public class User {

    /**
     * Default constructor
     */
    public User() {
    }

    /**
     *
     */
    public void Name;

    /**
     *
     */
    public void ID;

    /**
     *
     */
    public void Location;

    /**
     *
     */
    public void Gender;

    /**
     *
     */
    public void ContactNo;

    /**
     *
     */
    public void Username;

    /**
```

```

    *
    */
public void Password;

/**
 *
 */
public void AccessVideo() {
    // TODO implement here
}

/**
 *
 */
public void SignIn() {
    // TODO implement here
}

/**
 *
 */
public void SignUp() {
    // TODO implement here
}

/**
 *
 */
public void SignOut() {
    // TODO implement here
}

/**
 *
 */
public void ForgetPassword() {
    // TODO implement here
}

/**
 *
 */
public void ModifyName() {
    // TODO implement here
}

/**

```

```

        *
        */
    public void ModifyLocation() {
        // TODO implement here
    }

    /**
     *
     */
    public void ModifyUsername() {
        // TODO implement here
    }

    /**
     *
     */
    public void ModifyPassword() {
        // TODO implement here
    }
}

```

VideoContent.java:

```

import java.util.*;

/**
 *
 */
public class VideoContent {

    /**
     * Default constructor
     */
    public VideoContent() {
    }

    /**
     *
     */
    public void Name;

    /**
     *
     */
}

```

```

public void ID;

/**
 *
 */
public void Cast;

/**
 *
 */
public void DirectorName;

/**
 *
 */
public void ProducerName;

/**
 *
 */
public void SellingPrice;

/**
 *
 */
public void Ratings;

/**
 *
 */
public void Language;

/**
 *
 */
public void getName() {
    // TODO implement here
}

/**
 *
 */
public void getID() {
    // TODO implement here
}

```



```

    /**
     *
     */
    public void getCast() {
        // TODO implement here
    }

    /**
     *
     */
    public void getDirector() {
        // TODO implement here
    }

    /**
     *
     */
    public void getSP() {
        // TODO implement here
    }

    /**
     *
     */
    public void getRatings() {
        // TODO implement here
    }
}

```

WebSeries.java:

```

import java.util.\*;

/**
 *
 */
public class WebSeries extends VideoContent {

    /**
     * Default constructor
     */
    public WebSeries() {
    }
}

```

```

    /**
     *
     */
    public void EpisodeNumber;

    /**
     *
     */
    public void DurationEachEpisode;

    /**
     *
     */
    public void getEpisodeNumber() {
        // TODO implement here
    }

    /**
     *
     */
    public void getDurationEachEpisode() {
        // TODO implement here
    }
}

```

Administrator.java:

```

import java.util.*;

/**
 *
 */
public class Administrator extends User {

    /**
     * Default constructor
     */
    public Administrator() {
    }

    /**
     *
     */
    public void BasicSalary;
}

```

```
/**
 *
 */
public void UploadVideo() {
    // TODO implement here
}

/**
 *
 */
public void DeleteVideo() {
    // TODO implement here
}

/**
 *
 */
public void ModifyVideo() {
    // TODO implement here
}
}
```