Picture Perfect Design Document

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**Overview:**

Picture Perfect is an online movie ticket booking, review and rating service. The service helps users generate reviews and rating content for movies across the world. One may wish to publish only a rating or a full review of the movie in a language of choice.

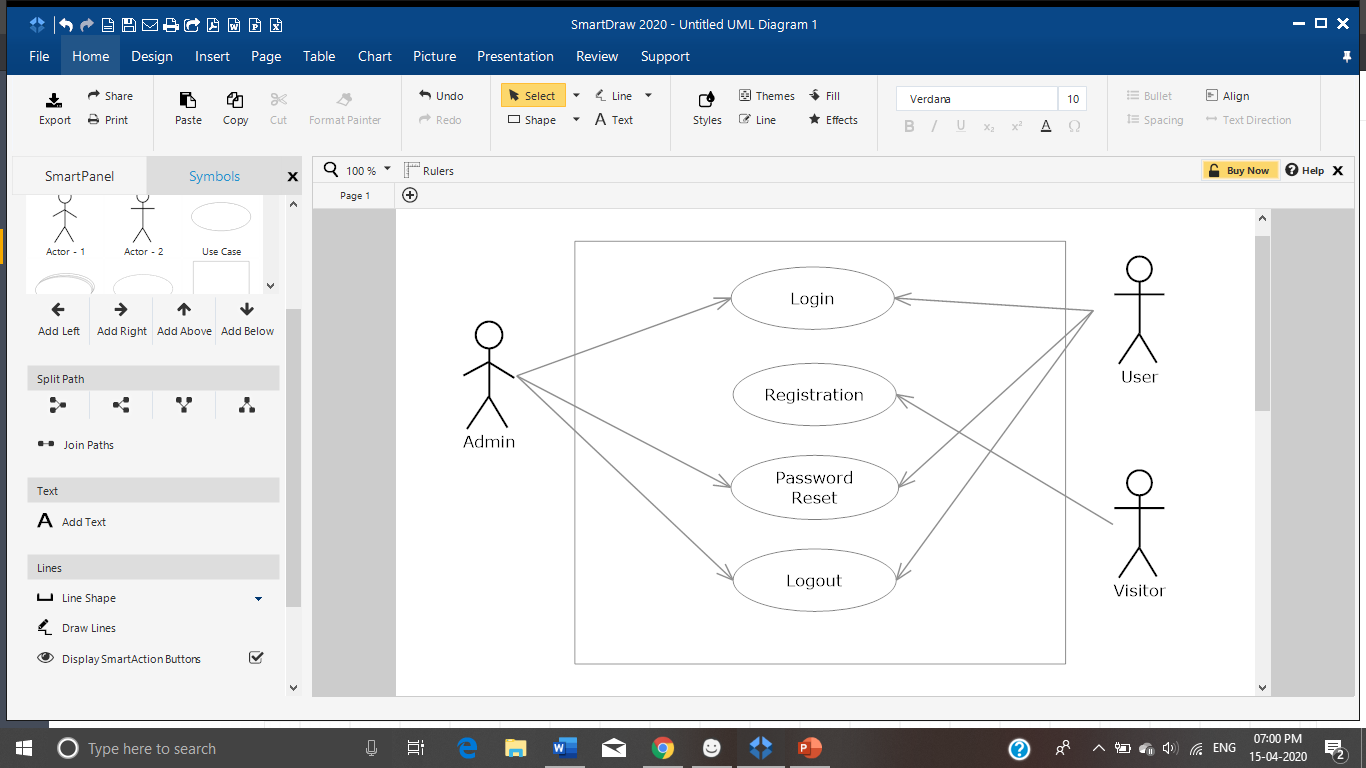
**Backend:**

**Language:** Golang

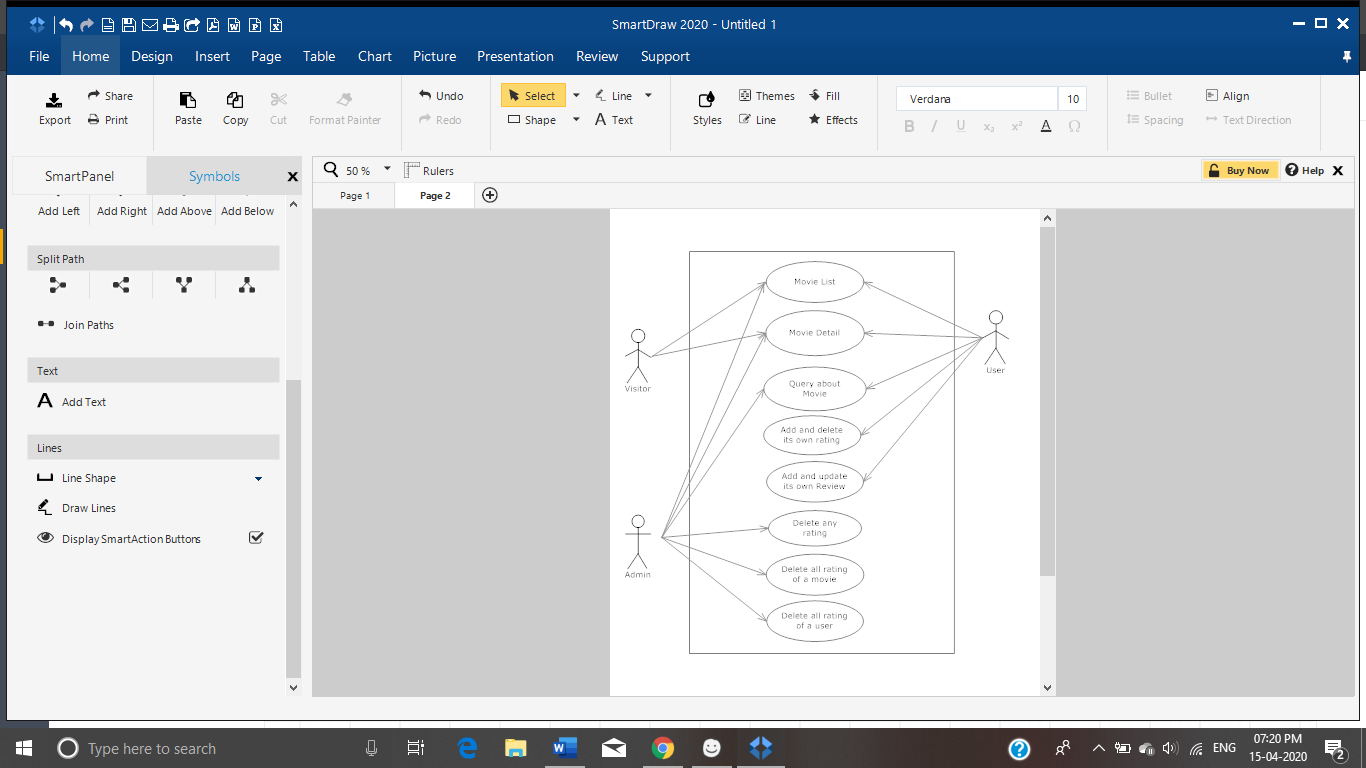
**Database:** MySQL or Amazon Aurora

**Design Diagram**:

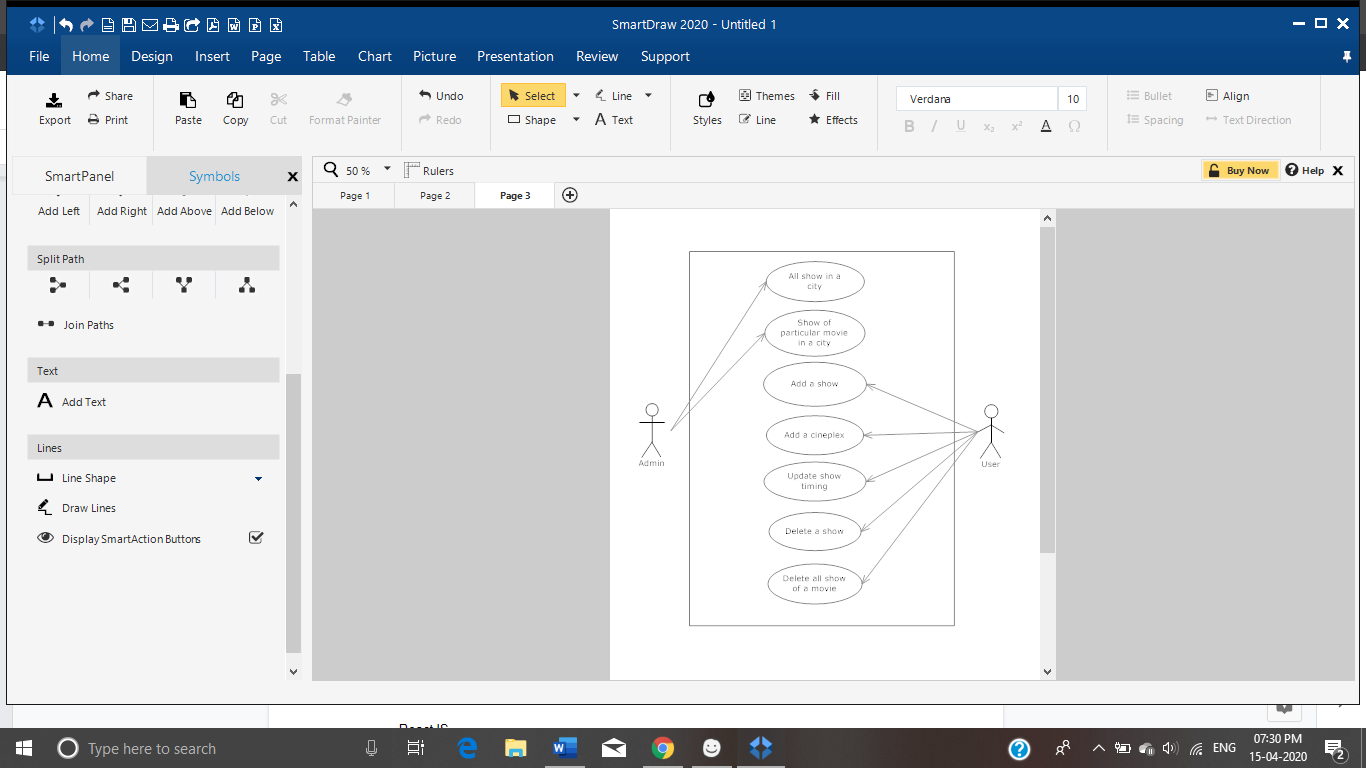
**Use Case Diagram**



User Authentication

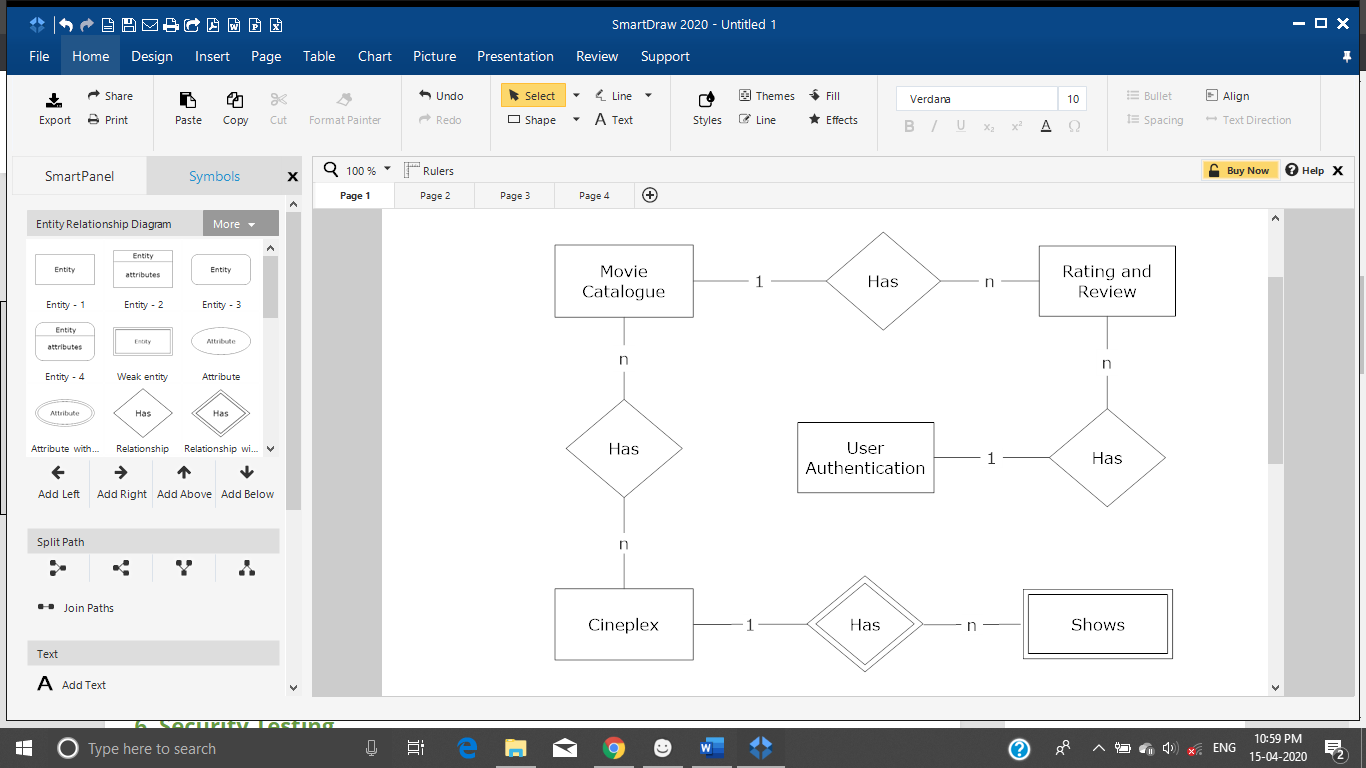


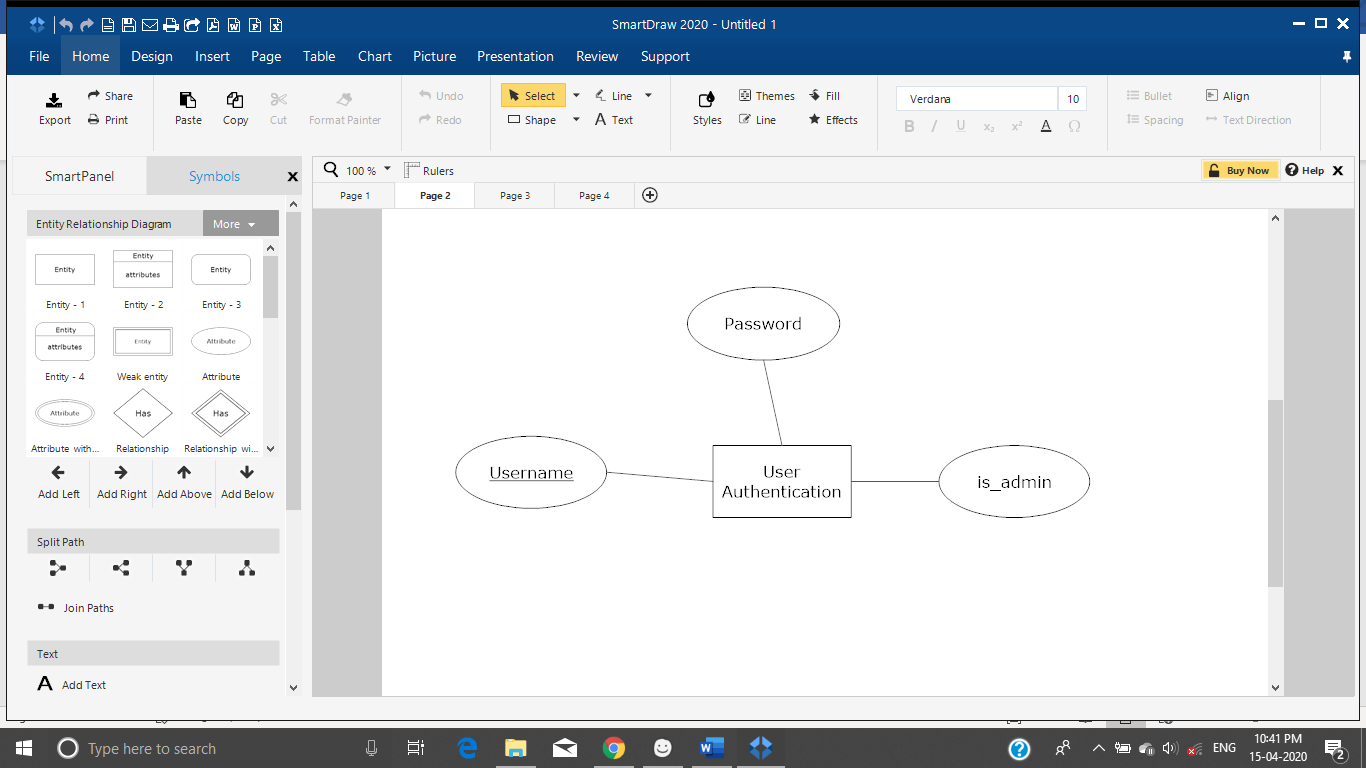
Movie Catalogue

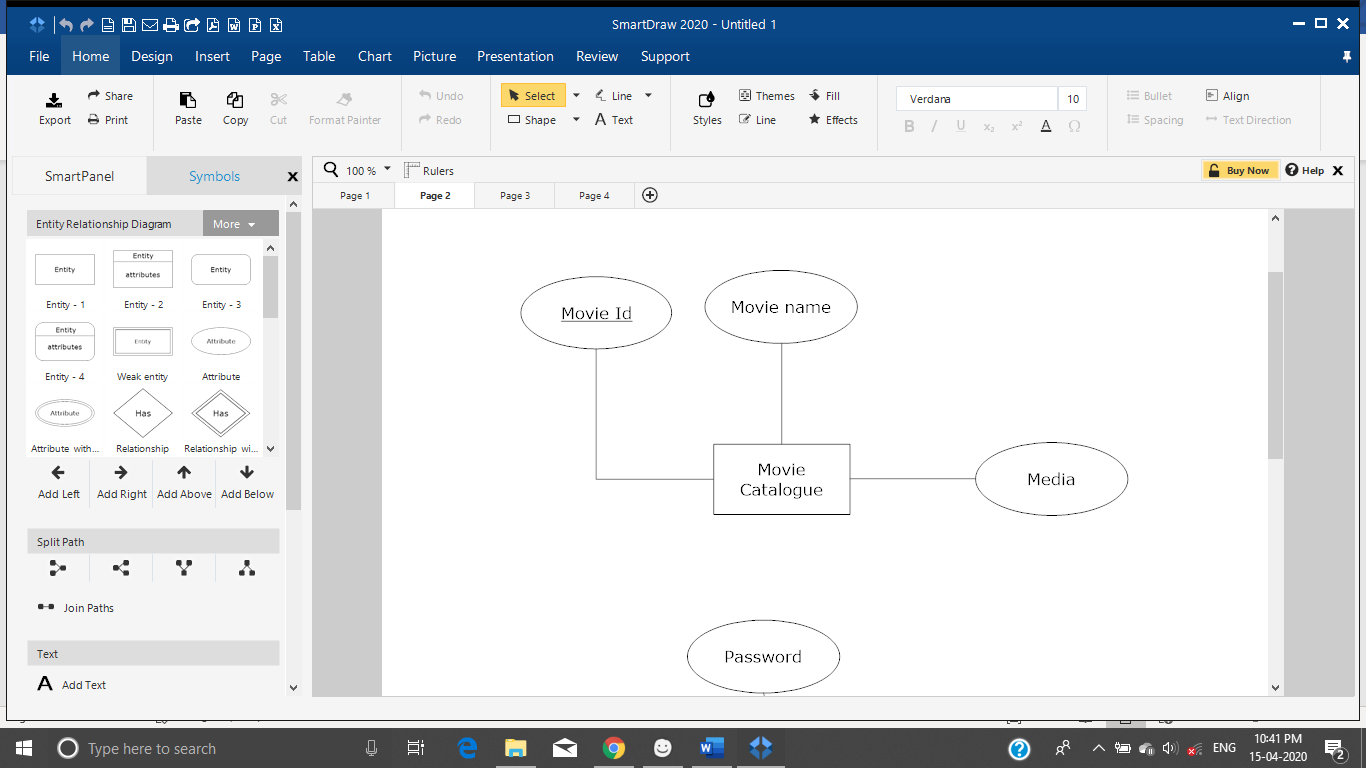


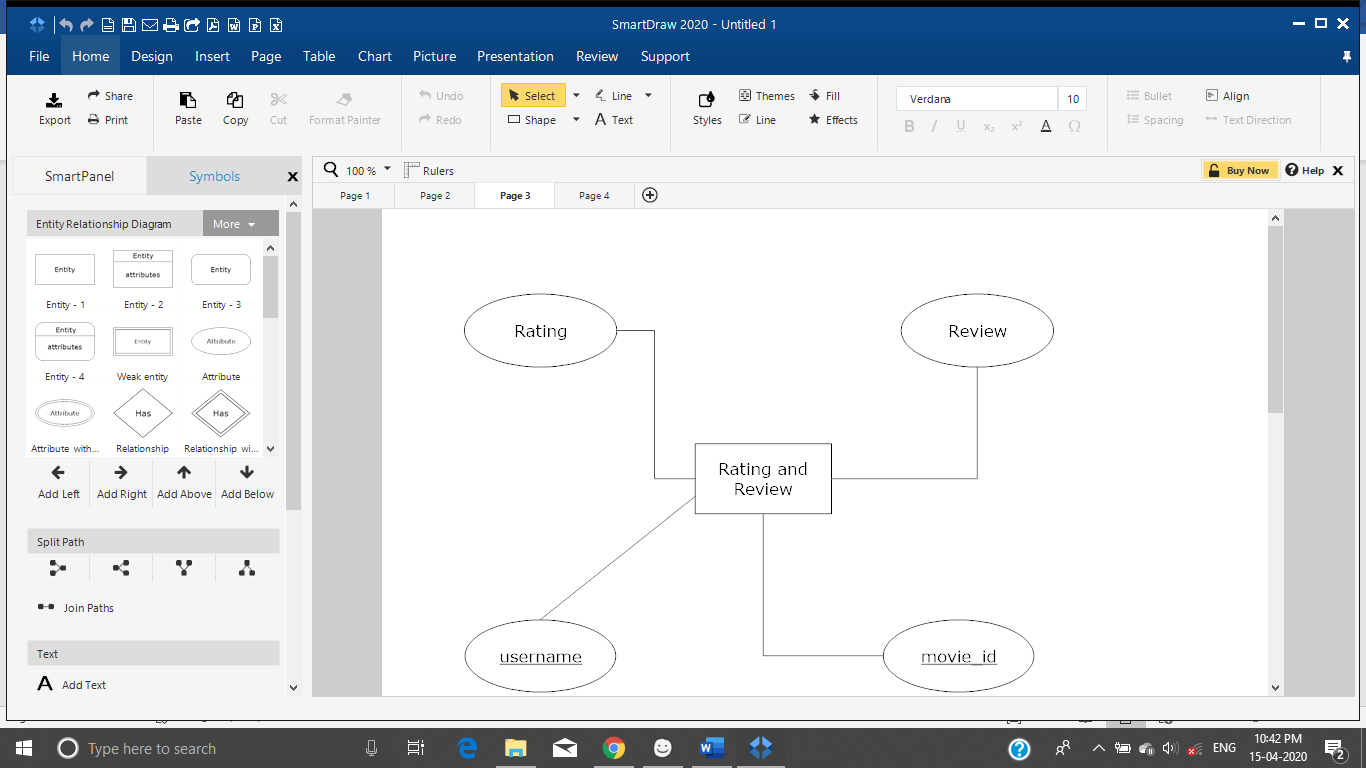
Cineplex shows

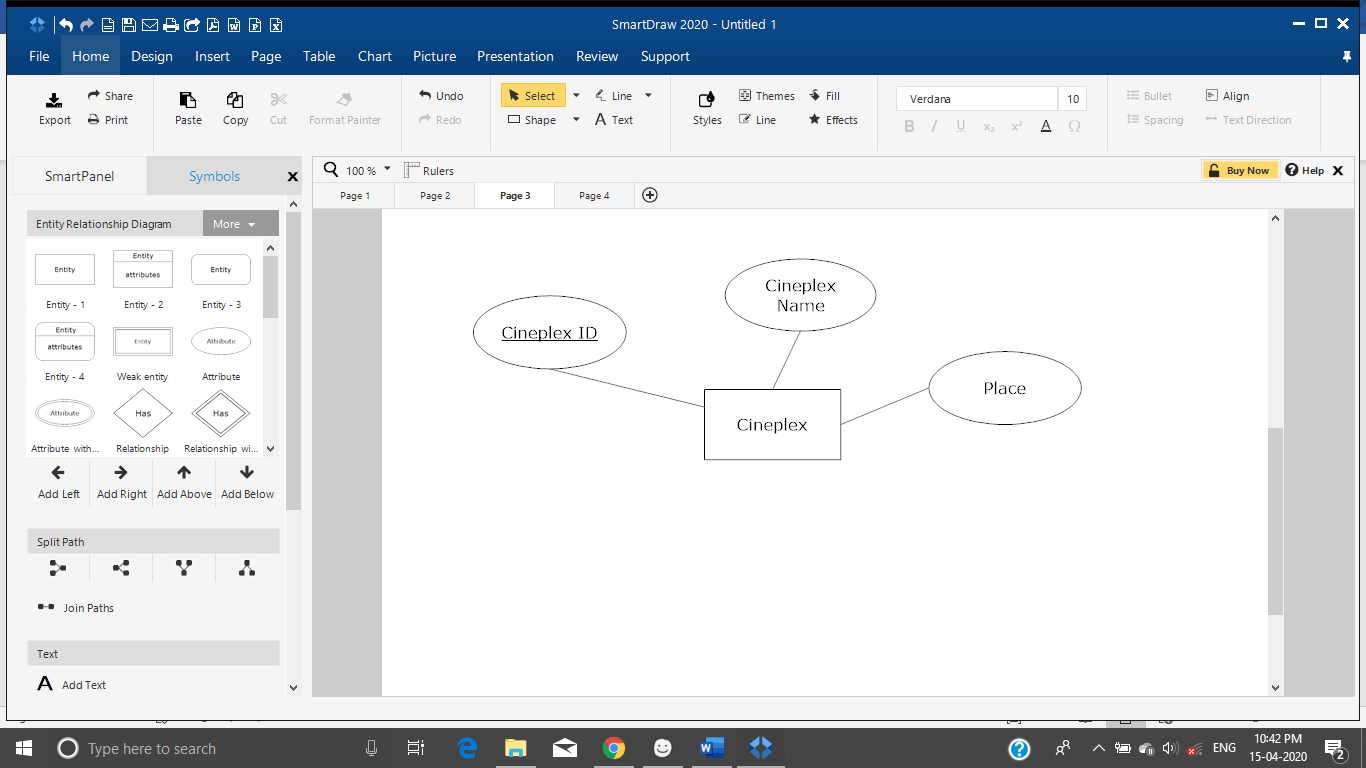
**ER Diagram:**

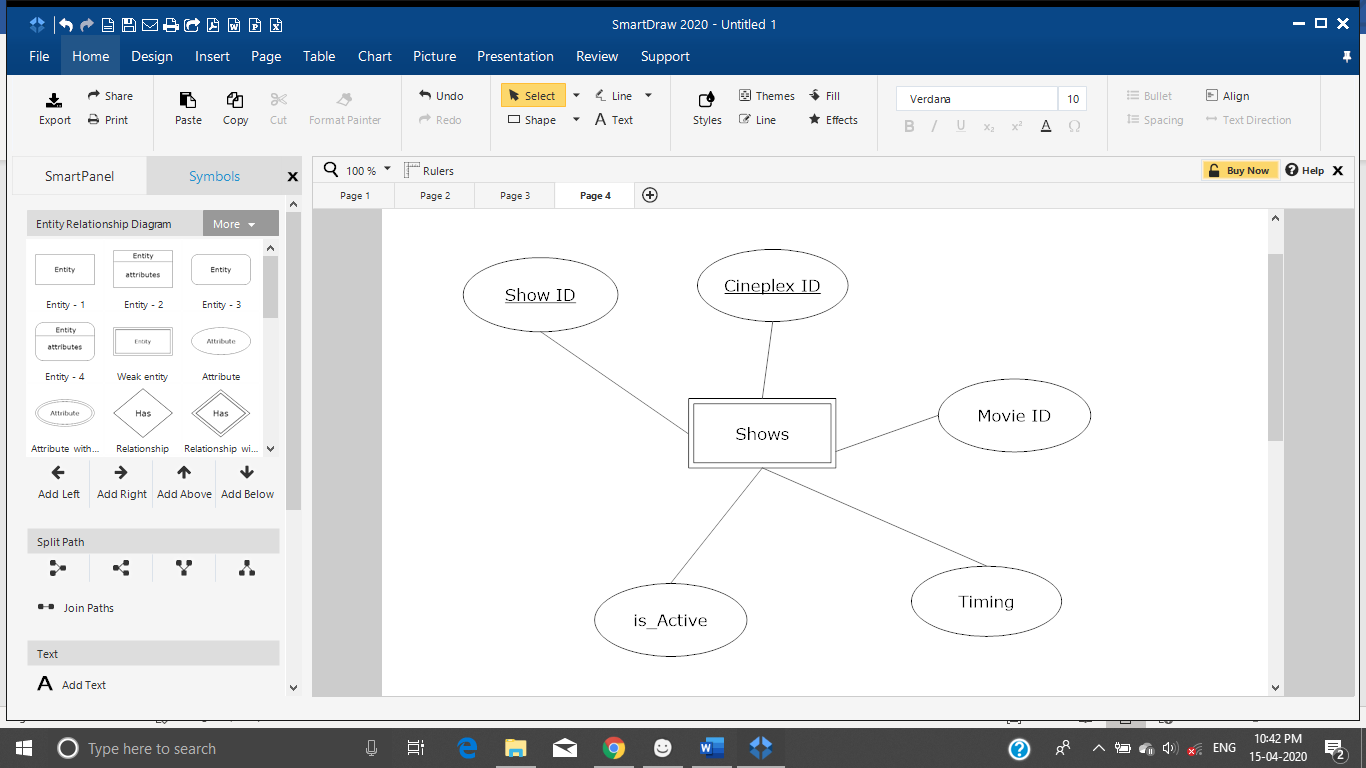












**Frontend:**

**Language:** HTML, CSS, JavaScript, TypeScript

**Library:** React, Bootstrap

**UX Mock Layout:**

A screenshot of a cell phone

Description automatically generated

Visitors and Users Only

A screenshot of a social media post

Description automatically generated

Visitors only

**A screenshot of a cell phone

Description automatically generated**

Users only

**A screenshot of a social media post

Description automatically generated**

Visitors Only

**A screenshot of a social media post

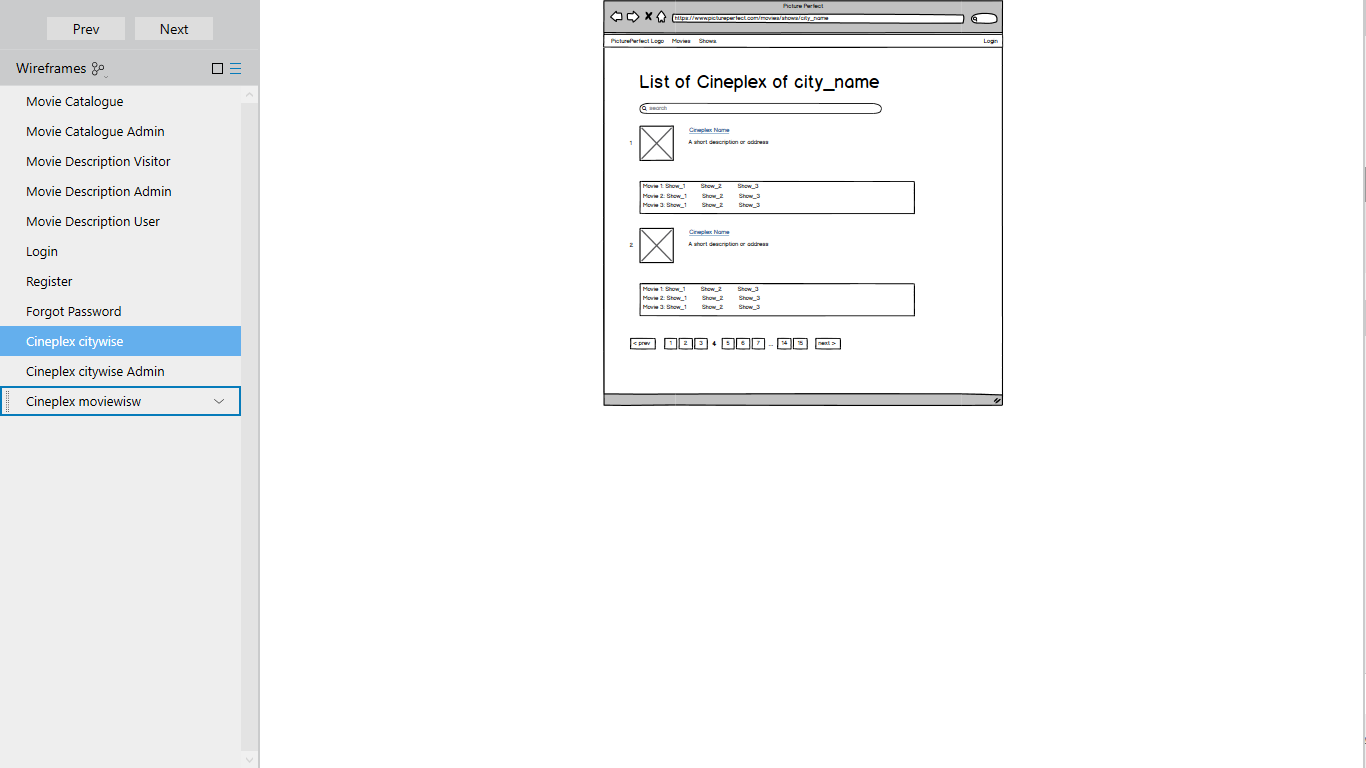
Description automatically generated**

Visitors only

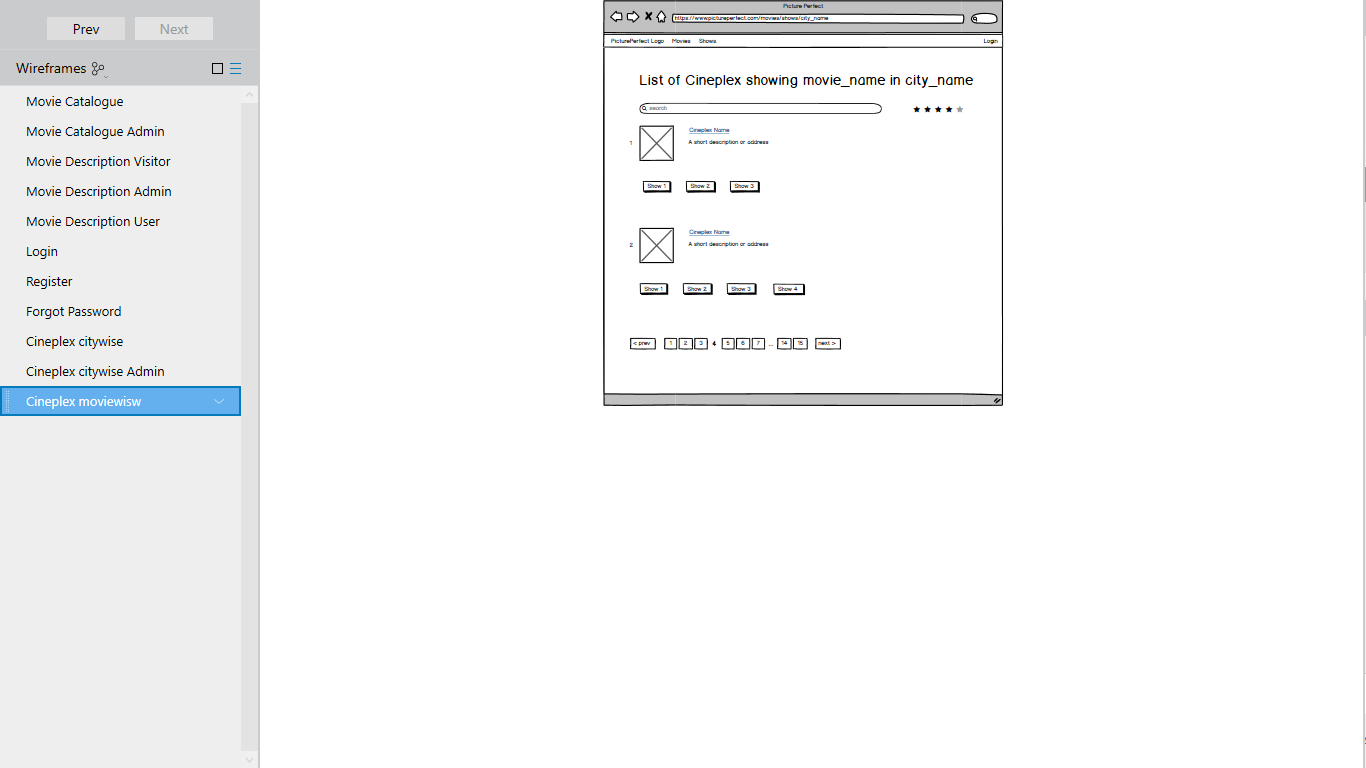
**A screenshot of a social media post

Description automatically generated**

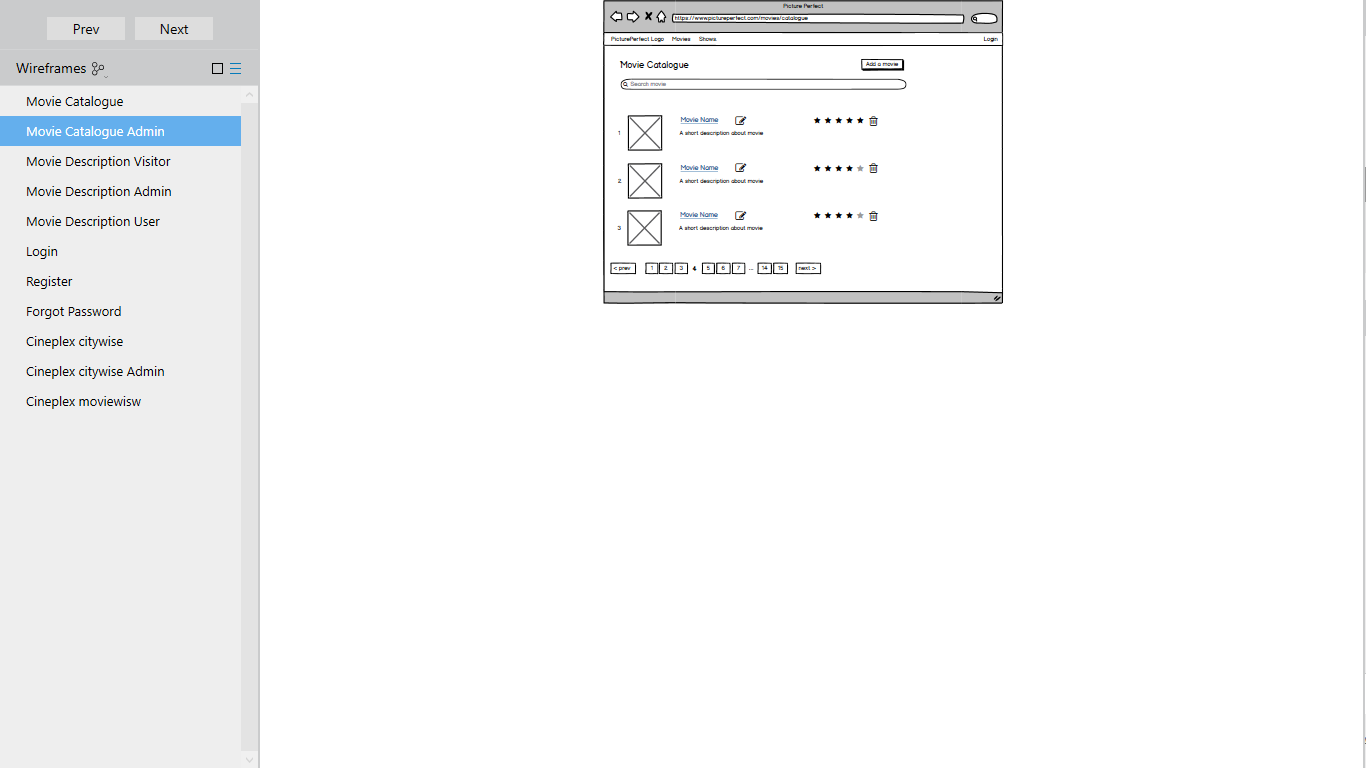
Visitors only

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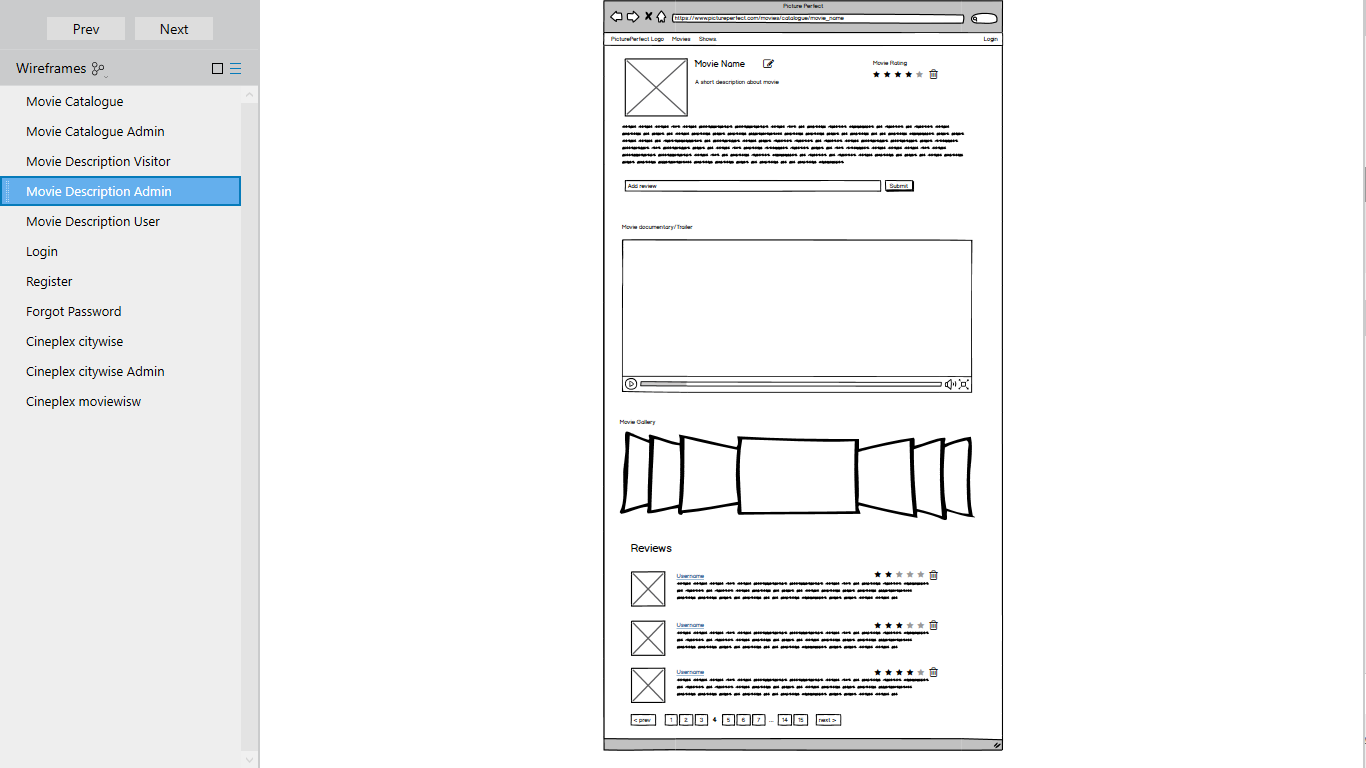
User only

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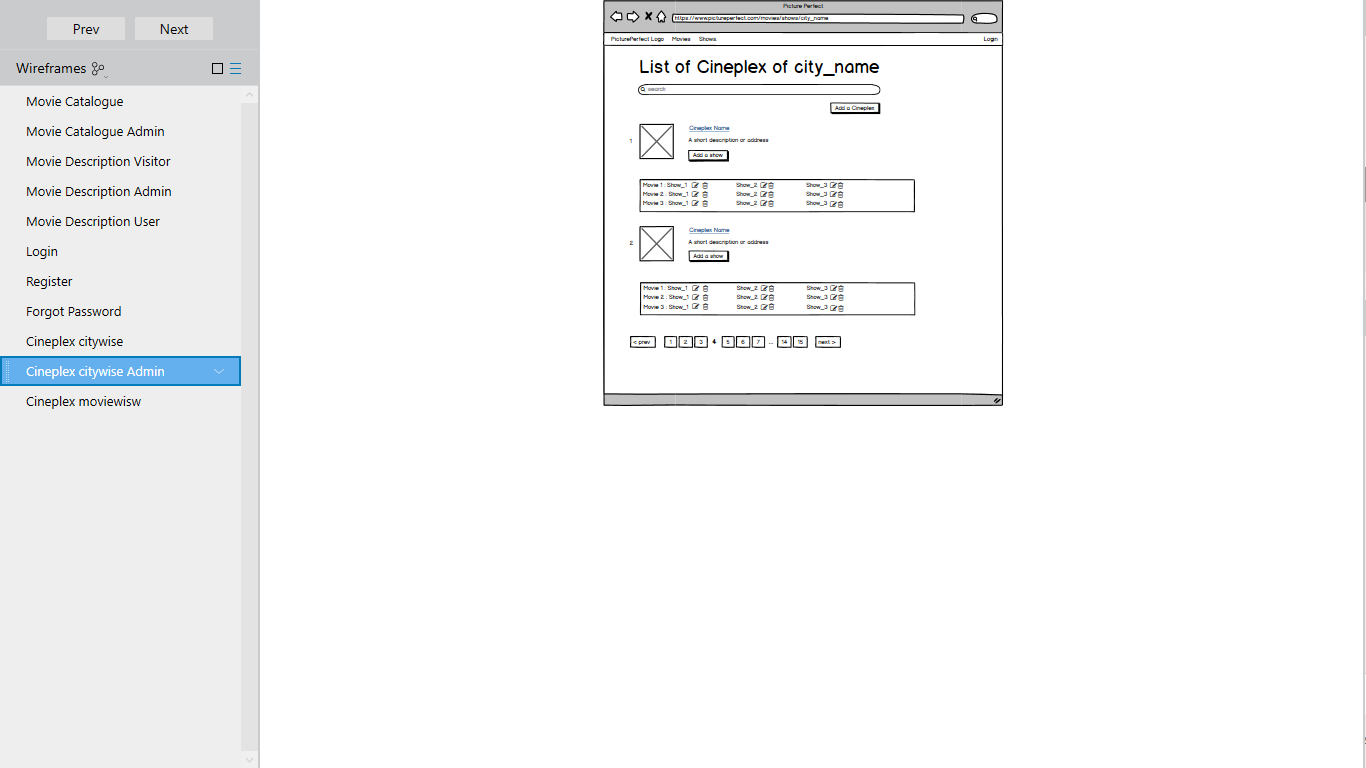
Users only

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Admin only

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Admin Only

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Admin Only

**Other Technologies:**

* **Deployment:** Docker
* **Code Repository:** Git
* **Server:** Amazon EC2

**Testing Strategy:**

* **Functionality Testing:** The main goal of functional testing is to make sure that all the functions within a web app are working smoothly without any technical glitches
* **Web UI Testing:** Web UI testing will ensure that all the individual components within a web application are connected appropriately. We should check whether the interaction between these servers are executed properly or not with the help of this testing method.
* **Compatibility Testing:** Compatibility testing will check our website or web application for browser compatibility, operating system compatibility, mobile browsing and printing options.
* **Performance Testing:** Performance testing will help us determine the performance of our web application under various scenarios. Performance testing usually involves stress testing, scalability testing and load testing. In this testing method, website is usually tested for its functionality on different operating system, hardware platforms and more.
* **Security Testing:** This testing method is one of the most important ones for our web application as if data leaks or modifications are tolerable or not. It usually involves various things like testing the CAPTCHA for automates scripts logins, testing SSL for security measures, whether it is possible to access web directories or files directly or not and so on.