

Framework for Interactive Content Generation and Publishing

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Framework for Interactive Content Generation and Publishing

By

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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING
AHMEDABAD-382481

May 2015

Framework for Interactive Content Generation and Publishing

Major Project

Submitted in partial fulfillment of the requirements
For the degree of
Bachelor of Technology in Computer Science Engineering

By
Siddharth Ayer 12BCE175
Yamini Rathod 11BCE078
Guided By
Dr. Madhuri Bhavsar



DEPARTMENT OF Computer Science Engineering
AHMEDABAD-382481

May 2015

Certificate

This is to certify that the Major Project entitled "Framework for Interactive Content Generation and Publishing" submitted by Siddharth Ayer(12BCE175) and Yamini Rathod (11BCE078), towards the partial fulfillment of the requirements for the degree of Bachelor of Technology in Computer Science Engineering of Nirma University, Ahmedabad is the record of work carried out by her under my supervision and guidance. In my opinion, the submitted work has reached a level required for being accepted for examination. The results embodied in this Major Project, to the best of my knowledge, haven't been submitted to any other university or institution for award of any degree or diploma.

Dr. Madhuri Bhavsar,
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Computer Science Engineering,
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Dr. Sanjay Garg
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Nirma University, Ahmedabad.

Acknowledgement

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- Siddharth Ayer (12BCE175)
- Yamini Rathod (11BCE078)

Abstract

This project is an apparent solution to the problems faced by the organizations in generating and publishing content. The solution is to provide the coupling facility between the tools of generating and publishing, which in turn proposes the new challenges that are related to cross domain functionality, and are by nature hard to accomplish or at least not achievable without complex and sophisticated solutions. The solution is to provide the framework that does the publishing and generation for us. And this solution can be converted into the need if implemented properly. This solution is focused on creating online framework that provides the means of generating interactive content and mechanism to publish the content over the heterogeneous platforms ranging from formal desktop environments to mobile application. This means that the publishing party would provide the source content as input and views that are compatible with the multiple platforms and environments will be available as output. This solution is made from the ground up with the latest technology available and hence it keeps the door for the expansion and extension open. And hence it is more preferable and economical. Also the published content is compatible with the majority of the platforms ranging from desktop systems to the Sandboxed Mobile Application environment. Also the system is capable of publishing content that target device can cache offline. And hence eliminate the need of the continuous communication with our server. The system is accessible from the web enabled device and would have group of users each with different access rights and set of primitive action and responsibility. And according to the criterion set by us, users will be able to access the content. This provision of the content access will be subject to the service agreement which can be decided, and are subject to change or replace. The system can be extended to publish the content in multiple languages depending on the region of their deployment. This enables us in acquiring the variety of consumer from wide demographic regions.

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Chapter 1

Introduction

1.1 Methodology

1.1.1 Rational Unified Process

This software engineering process has three branches from all of the generic process models that a standard software engineering project would require or is entitled to, it also supports regular revisions and it also provides guidelines of “standard practices” in system analysis and design.

This model is best described by following three perspectives:

- | | |
|-----------------|---|
| Static | This phase shows the set of actions that are carried out over development period |
| Dynamic | This phase shows an overview of phases that covers major aspects of development |
| Practice | These phases are guidelines that provide the bases of standards that should be followed |

Iterative Development

Business value is delivered incrementally in time-boxed cross-discipline iterations.

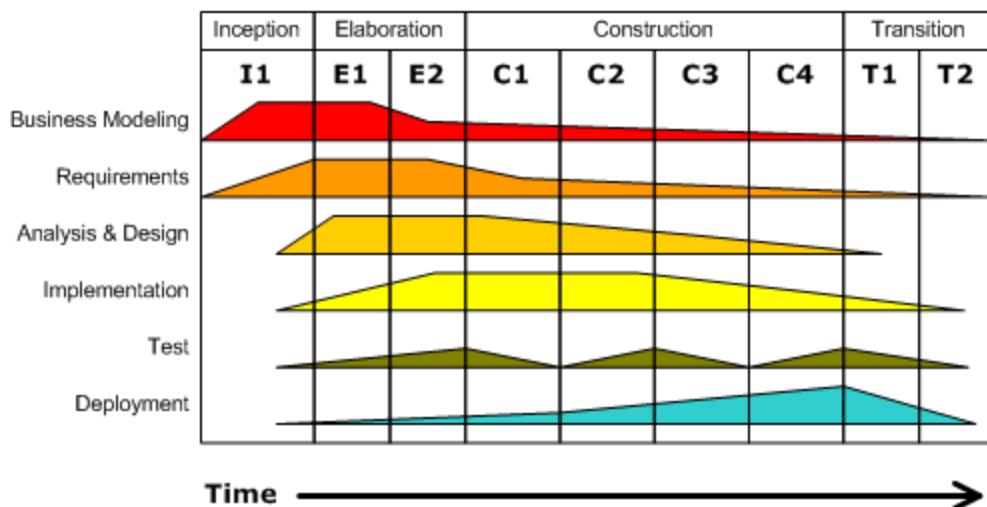


Figure 1 Phases of RUP

Inception | The objective of this phase is to provide the outline to the organization for the system. This includes identification of all the factors and entities that will be the part of communication system either to the system or from the system. Collection of this information will help create the business case for the proposed system.

Elaboration | This phase mainly encloses the entities related to the bases of understanding the problem, its domain, the framework of architecture and the project plan and most importantly the stakeholder and risk associated with each of them.

Construction | Although previous phase may include the activities related to establishing the grounding framework of this project, this phase is actually dedicated to the overall system design, implementation and testing. Parts of the system may be developed in small sized units and finally are coupled together during this phase.

Transition | This last phase is concerned with deploying the system to the customer base from the testing and development environment.

1.1.2 Purpose

This framework is provided as an intelligent web application to the users who could access it from the wide range of heterogeneous products and environments, and will provides the means of generating the content that they wish to publish and then finally push the generated content to the standard publishing portal that will showcase the outcome of the generated content.

The unique feature of our system is that we will support content interaction, which will increase the utility value of the same content which would otherwise represent the same content but will be less productive.

And hence the framework would relieve the user from using different standard technologies for content generation and other standard technologies to publish same content.

1.1.3 Scope

The scope for this project is limited only by the imagination of the organization that uses this. This system can support and publish all kind of media regardless of dependencies that content requires .Though for sake of this major project, a few domains that could utilize this system are as follows,

Educational and training institutes can generate content that is highly interactive and are highly complicated with ease.

Publishing houses can focus onto content generation rather than dealing with complex technologies that can convert this content to publishable form and then actually publishes it on standard platform.1.2 Definitions, Acronyms and Abbreviations

1.2 Tools Used

1.2.1 Application Architecture: PHP

PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language. PHP code can be simply mixed with HTML code, or it can be used in combination with various template engines and web frameworks. PHP code is usually processed by a PHP interpreter, which is usually implemented as a web server's native module or a Common Gateway Interface (CGI) executable.

After the PHP code is interpreted and executed, the web server sends resulting output to its client, usually in form of a part of the generated web page; for example, PHP code can generate a web page's HTML code, an image, or some other data. PHP has also evolved to include a command-line interface (CLI) capability and can be used in standalone graphical applications.

1.2.2 Web server – WAMP

WAMP is an acronym for an archetypal model of web service solution stacks, originally consisting of largely interchangeable components: Windows, the Apache HTTP Server, the MySQL relational database management system, and the PHP programming language. As a solution stack, LAMP is suitable for building dynamic web sites and web applications.

1.2.3 Development tool –RAD

Jetbrains PHP Storm is an IDE that can support the development of PHP application by providing code hinting debugging, database visualization and many more.

1.2.4 Database platform – MySQL

MySQL the world's second most widely used open-source Relational Database Management System (RDBMS).

1.3 References

Wikipedia - www.wikipedia.com

1.4 Technologies to be used

- Php: Server side scripting
- Bootstrap: Responsive website design
- JQuery: Sophisticated JavaScript library
- MySQL: Relational database system
- PhPStorm: Rapid application developer

1.5 Overview

1.5.1 Existing System

No existing system are available, as this the inception of this kind of system.

1.5.2 Proposed System

This project is an apparent solution to the problems faced by the organizations in generating and publishing content. The solution is to provide the coupling facility between the tools of generating and publishing, which in turn proposes the new challenges that are related to cross domain functionality, and are by nature hard to accomplish or at least not achievable without complex and sophisticated solutions. The solution is to provide the framework that does the publishing and generation for us. And this solution can be converted into the need if implemented properly. This solution is focused on creating online framework that provides the means of generating interactive content and mechanism to publish the content over the heterogeneous platforms ranging from formal desktop environments to mobile application.

This means that the publishing party would provide the source content as input and views that are compatible with the multiple platforms and environments will be available as output. This solution is made from the ground up with the latest technology available and hence it keeps the door for the expansion and extension open. And hence it is more preferable and economical

Also the published content is compatible with the majority of the platforms ranging from desktop systems to the Sandboxed Mobile Application environment. Also the system is capable of publishing content that target device can cache offline. And hence eliminate the need of the continuous communication with our server.

The system is accessible from the web enabled device and would have group of users each with different access rights and set of primitive action and responsibility. And according to the criterion set by us, users will be able to access the content. This provision of the content access will be subject to the service agreement which can be decided, and are subject to change or replace.

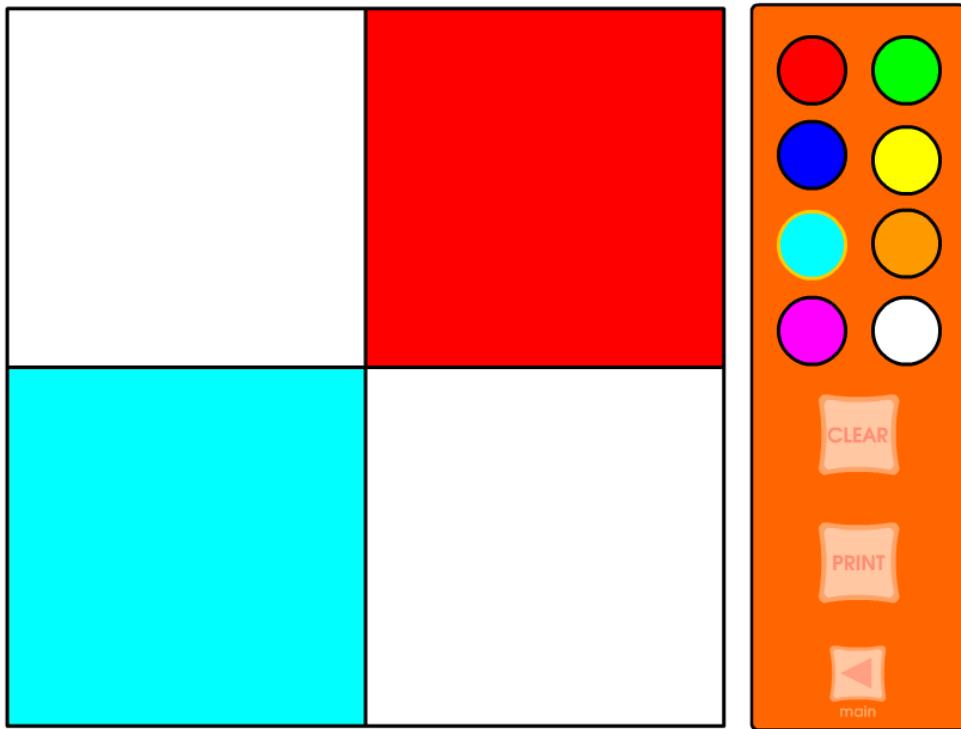
The system can be extended to publish the content in multiple languages depending on the region of their deployment. This enables us in acquiring the variety of consumer from wide demographic regions.

1.5.3 Our plan

Release the proposed system at the completion of major project under semester 8.

Chapter 2

Literature Review



Name: OSWEGO

Application type	Static HTML, No database, Non responsive, Non Touch friendly
Content Platform	ADOBE FLASH
Dynamic Content	No
Lacuna	<p>Flash based platform forces this application to be run on the browsers which are having Flash plugins. Major mobile products are dropping support for the Adobe flash due to their Poor battery support and limited interactivity.</p> <p>Also the site is non-responsive and non-touch friendly making it difficult to use it on mobile and tablet devices.</p> <p>A very few examples just like shown above are presented and are not updated regularly.</p> <p>No support from the developers.</p> <p>No dynamic content and not provision to store user data.</p> <p>Limited scope as simple HTML is used making it a very basic website.</p>
Our Solution	<p>Latest Web animation and event handling JavaScript and HTML5 plugins make development of interactive content easier and it also allows that content to be viewable or accessible on multiple platforms.</p> <p>The site is made responsive using latest bootstrap framework also different versions</p>

	<p>of site can be easily exported just by the single version of the code.</p> <p>Database and Cookie based technologies can store user data and other preferences of site making it tailored for users.</p>
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Name: sciencenetlinks

Application type	Static HTML, No database, Non responsive, Non Touch friendly
Content Platform	ADOBE FLASH
Dynamic Content	No
Lacuna	<p>Flash based platform forces this application to be run on the browsers which are having Flash plugins. Major mobile products are dropping support for the Adobe flash due to their Poor battery support and limited interactivity.</p> <p>Also the site is non-responsive and non-touch friendly making it difficult to use it on mobile and tablet devices.</p> <p>A very large set of examples just like shown above are presented but are not updated regularly.</p> <p>No dynamic content and not provision to store user data.</p> <p>Limited scope as simple HTML is used making it a very basic website.</p>

Our Solution	<p>Latest Web animation and event handling JavaScript and HTML5 plugins make development of interactive content easier and it also allows that content to be viewable or accessible on multiple platforms.</p> <p>The site is made responsive using latest bootstrap framework also different versions of site can be easily exported just by the single version of the code.</p> <p>Database and Cookie based technologies can store user data and other preferences of site making it tailored for users.</p>
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Name: woodland resources

Application type	Static HTML, No database, Non responsive, Non Touch friendly
Content Platform	ADOBE FLASH
Dynamic Content	No
Lacuna	<p>Flash based platform forces this application to be run on the browsers which are having Flash plugins. Major mobile products are dropping support for the Adobe flash due to their Poor battery support and limited interactivity.</p> <p>Also the site is non-responsive and non-touch friendly making it difficult to use it on mobile and tablet devices. Examples on the site are nonfunctional at the time of this literature review.</p> <p>No dynamic content and not provision to store user data.</p>

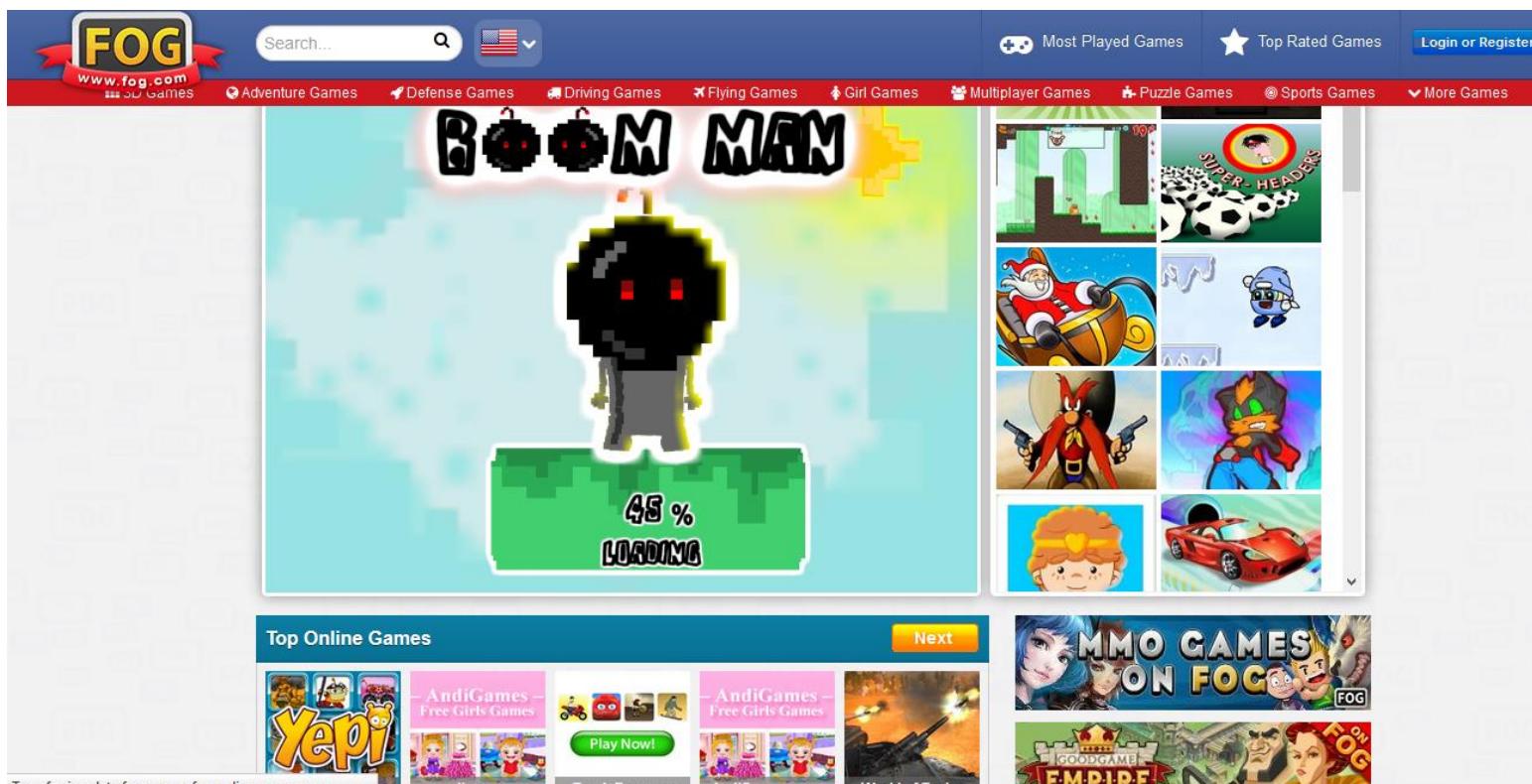
	Limited scope as simple HTML is used making it a very basic website.
Our Solution	<p>Latest Web animation and event handling JavaScript and HTML5 plugins make development of interactive content easier and it also allows that content to be viewable or accessible on multiple platforms.</p> <p>The site is made responsive using latest bootstrap framework also different versions of site can be easily exported just by the single version of the code.</p> <p>Database and Cookie based technologies can store user data and other preferences of site making it tailored for users.</p> <p>Our site will use latest web server technologies and cloud components make It always available.</p>

The screenshot shows the multiplication.com website. At the top, there's a navigation bar with links for GAMES, LEARN, TEACH, BOOKS & RESOURCES, OUR BLOG, ABOUT US, and HELP. There are also social media icons for Facebook, Twitter, Pinterest, Google+, and YouTube, along with>Login, Sign Up, and Cart buttons. Below the navigation, a sub-menu for 'Multiplication Games' lists categories like Multi-Player Games, Addition Games, Subtraction Games, Division Games, Other Fun Games, and Classic Games. On the left, a sidebar titled 'IXL Math Practice' offers grade levels from Kindergarten to Algebra 2. The main content area displays the multiplication.com logo and the message 'Your game is on its way.... Please wait.' A banner at the bottom promotes 'Play RUMMY- Game of Skill' with a 'Play Now' button and a small logo for Ace2Three.com.

Name: Multiplication

Application type	Dynamic(ASP.net), with database, Non responsive, Touch friendly
Content Platform	ADOBE FLASH
Dynamic Content	yes
Lacuna	Flash based platform forces this application to be run on the browsers which are having Flash plugins. Major mobile products are dropping support for the Adobe flash due to their Poor battery support and limited interactivity.

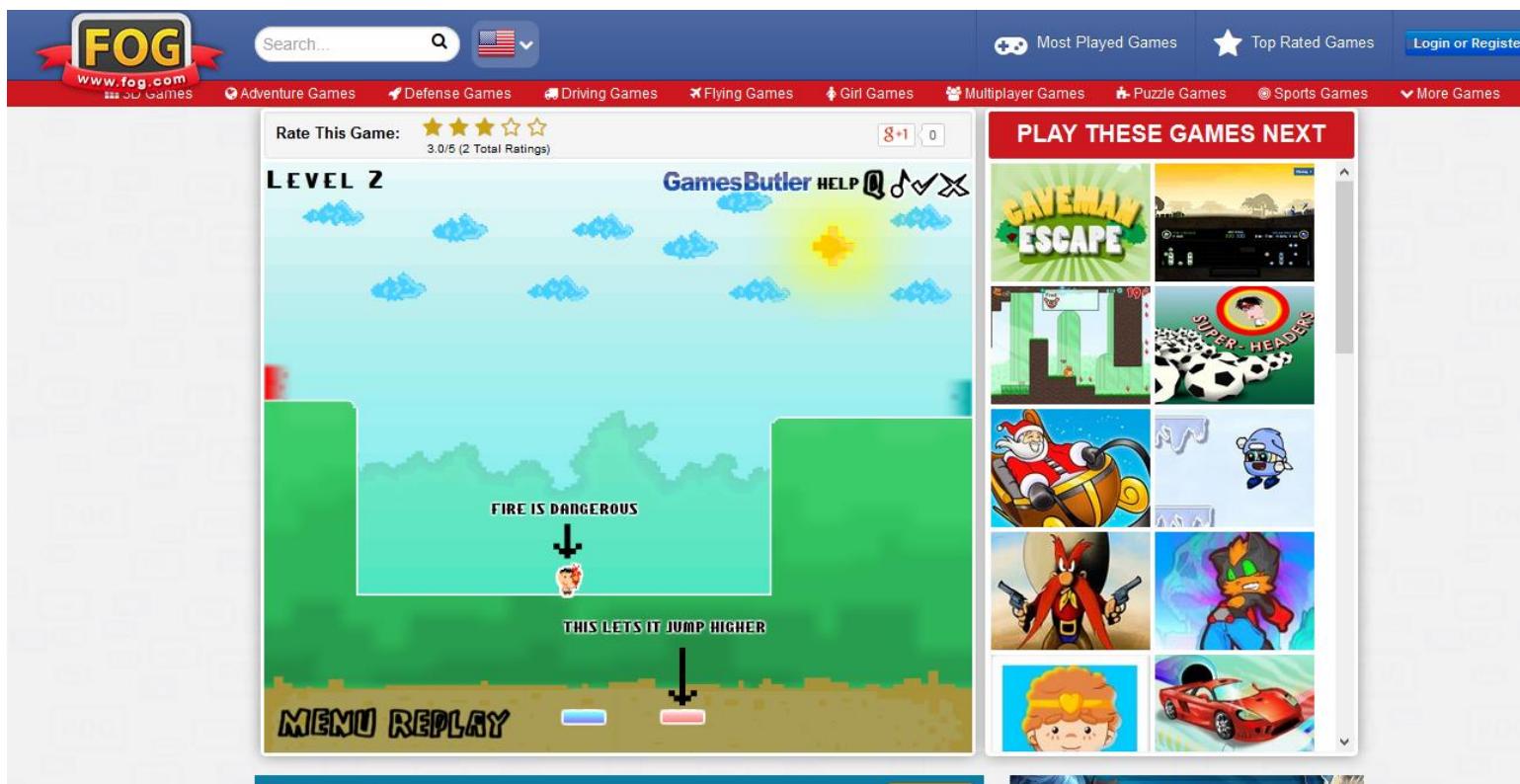
	<p>Also the site is non-responsive friendly making it difficult to use it wide variety of devices.</p> <p>Dynamic content is loaded on the fly also provision to store user data.</p> <p>Site takes forever to load the content making it basically less usable.</p>
Our Solution	<p>Latest Web animation and event handling JavaScript and HTML5 plugins make development of interactive content easier and it also allows that content to be viewable or accessible on multiple platforms.</p> <p>The site is made responsive using latest bootstrap framework also different versions of site can be easily exported just by the single version of the code.</p> <p>Latest Ajax technologies can make site loading more efficient.</p>



Name: FOG

Application type Dynamic(ASP.net), with database, Non responsive, Non Touch friendly

Content Platform	ADOBE FLASH
Dynamic Content	No
Lacuna	<p>Flash based platform forces this application to be run on the browsers which are having Flash plugins. Major mobile products are dropping support for the Adobe flash due to their Poor battery support and limited interactivity.</p> <p>Also the site is non-responsive and non-touch friendly making it difficult to use it on mobile and tablet devices.</p> <p>Dynamic content is loaded on the fly also provision to store user data.</p> <p>Site heavily dependent on advertisements for its functioning making it less attractive.</p>
Our Solution	<p>Latest Web animation and event handling JavaScript and HTML5 plugins make development of interactive content easier and it also allows that content to be viewable or accessible on multiple platforms.</p> <p>The site is made responsive using latest bootstrap framework also different versions of site can be easily exported just by the single version of the code.</p> <p>The sponsor mechanism will let us make revenue to publish the content without making a mess out of irritating online advertisement.</p>



Name: FOG

Application type	Dynamic(ASP.net), with database, Non responsive, Non Touch friendly
Content Platform	ADOBE FLASH
Dynamic Content	No
Lacuna	<p>Flash based platform forces this application to be run on the browsers which are having Flash plugins. Major mobile products are dropping support for the Adobe flash due to their Poor battery support and limited interactivity.</p> <p>Also the site is non-responsive and non-touch friendly making it difficult to use it on mobile and tablet devices.</p> <p>Dynamic content is loaded on the fly also provision to store user data.</p> <p>Site heavily dependent on advertisements for its functioning making it less attractive.</p> <p>Site uses complicated interactions which are rather confusing to certain age groups.</p>
Our Solution	<p>Latest Web animation and event handling JavaScript and HTML5 plugins make development of interactive content easier and it also allows that content to be viewable or accessible on multiple platforms.</p> <p>A well thought ways to interaction mechanism and a team of designers for making interaction more easy and beautiful.</p>

Name: multiplication

Application type	Dynamic(ASP.net), withdatabase, Non responsive, Non Touch friendly
Content Platform	ADOBE FLASH
Dynamic Content	No
Lacuna	<p>Flash based platform forces this application to be run on the browsers which are having Flash plugins. Major mobile products are dropping support for the Adobe flash due to their Poor battery support and limited interactivity.</p> <p>Also the site is non-responsive and non-touch friendly making it difficult to use it on mobile and tablet devices.</p> <p>Dynamic content is loaded on the fly also provision to store user.</p> <p>Site provides the multiplayer feature on the cost of too long waiting and queuing time.</p>
Our Solution	<p>Latest Web animation and event handling JavaScript and HTML5 plugins make development of interactive content easier and it also allows that content to be viewable or accessible on multiple platforms.</p> <p>The site is made responsive using latest bootstrap framework also different versions of site can be easily exported just by the single version of the code.</p> <p>Multiplayer features are allowed using separate Ajax apis tailored to move data</p>

efficiently between users.

The screenshot shows the Kongregate homepage. At the top, there's a red header bar with the text "44,101 ONLINE PLAYING 94,632 FREE GAMES!" and the Kongregate logo. Below the header, there are navigation links for "GAMES", "ACHIEVEMENTS", "MY KONG", and a search bar. A large banner for "Business File Sharing Software" is prominently displayed. On the left, a sidebar lists various game categories: Top Rated, Hot New Games, All games, Action, Multiplayer, Shooter, Adventure & RPG, Sports & Racing, Strategy & Defense, Puzzle, Music & More, and Tutorials. The main content area shows search results for the tag "zombie". The first result is "Mu Complex : Episode 1" by StudioCime, which is a puzzle game. The second result is "Johnny Rocketfinge..." by ryankhatam, a point-and-click game. The third result is "Zuma Deluxe" by gamine, with a large green "Click Here" button overlaid. Below these are smaller thumbnail images for other games like "GAME SPOTLIGHT" and "Angry Birds Star Wars".

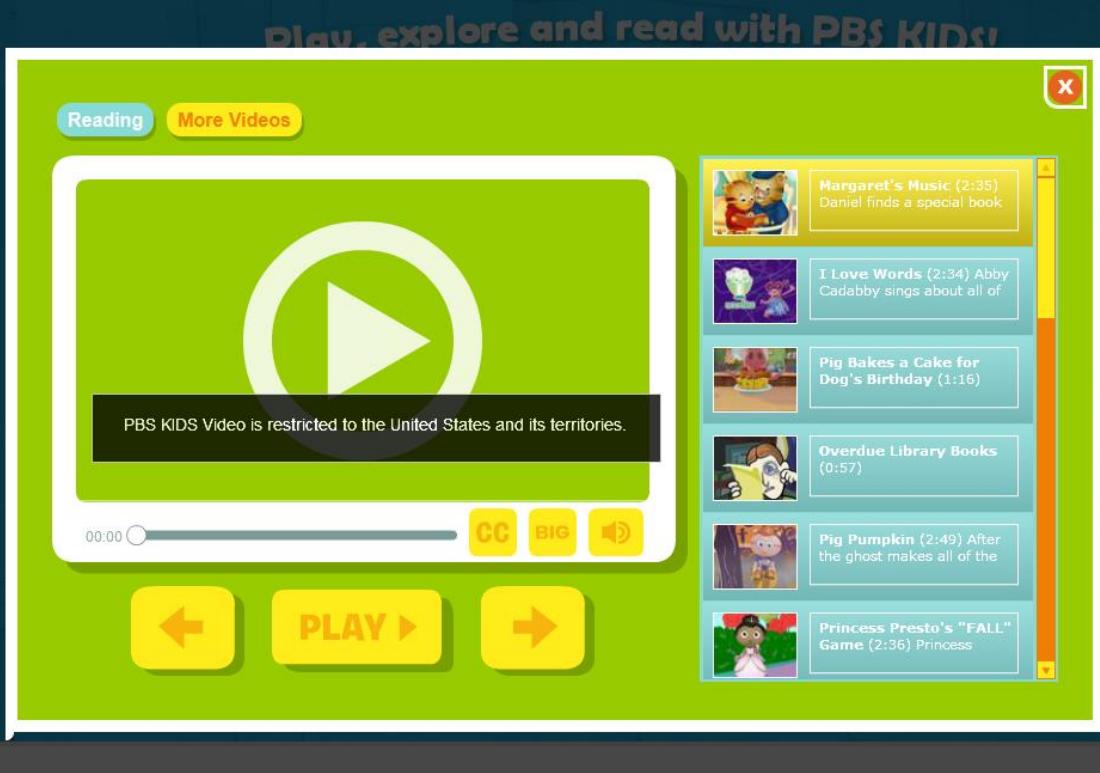
Name: KONGRGEATE

Application type	Dynamic(Php), database, Non responsive, Non Touch friendly
Content Platform	ADOBE FLASH
Dynamic Content	Yes
Lacuna	<p>Flash based platform forces this application to be run on the browsers which are having Flash plugins. Major mobile products are dropping support for the Adobe flash due to their Poor battery support and limited interactivity.</p> <p>Also the site is non-responsive and non-touch friendly making it difficult to use it on mobile and tablet devices.</p> <p>Dynamic content is loaded on the fly also provision to store user data.</p> <p>Big advertisements makes this site less attractive.</p>
Our Solution	Latest Web animation and event handling JavaScript and HTML5 plugins make development of interactive content easier and it also allows that content to be

viewable or accessible on multiple platforms.

The site is made responsive using latest bootstrap framework also different versions of site can be easily exported just by the single version of the code.

The sponsor mechanism will let us make revenue to publish the content without making a mess out of irritating online advertisement.



Name: pbskinds

Application type	Dynamic(ASP.net), database, Non responsive, Non Touch friendly
Content Platform	ADOBE FLASH
Dynamic Content	No
Lacuna	Flash based platform forces this application to be run on the browsers which are having Flash plugins. Major mobile products are dropping support for the Adobe flash due to their Poor battery support and limited interactivity. Also the site is non-responsive and non-touch friendly making it difficult to use it on mobile and tablet devices.

	<p>Dynamic content is loaded on the fly also provision to store user data.</p> <p>The site is region locked making it available to only few users.</p>
Our Solution	<p>Latest Web animation and event handling JavaScript and HTML5 plugins make development of interactive content easier and it also allows that content to be viewable or accessible on multiple platforms.</p> <p>The site is made responsive using latest bootstrap framework also different versions of site can be easily exported just by the single version of the code.</p> <p>The content will be published online with the cloud technologies and we will make sure that our content is available to all who would like to access it without any region boundaries.</p>

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Name: blurb

Application type	Dynamic(ASP.net), database, responsive, Touch friendly
Content Platform	Custom
Dynamic Content	No

Lacuna	<p>Site uses custom platform which is fine if content never leaves the site environment.</p> <p>Dynamic content is loaded on the fly also provision to store user data.</p> <p>The site provides the tools to create the content but these tools are only offline and they cannot create interactive content.</p>
Our Solution	<p>The content generated by our site will be in the standard open format that can be accessed on the wide variety of devices without any dependencies with our framework or tools.</p> <p>All the tools that we create using this framework are always online and can be accessed from anywhere using any device.</p>

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Build all the necessary artwork needed for your

DVDs

Design complementary full-wrap and disc face

Name: Createspace

Application type	Dynamic(ASP.net), database, non-responsive, non-Touch friendly
Content Platform	PDF
Dynamic Content	No
Lacuna	<p>Site use PDF as the content platform making it limited to the features that PDF can support.</p> <p>Also the site is non-responsive and non-touch friendly making it difficult to use it on mobile and tablet devices.</p> <p>Dynamic content is loaded on the fly also provision to store user data.</p>
Our Solution	<p>The content generated by our site will be in the standard open format that can be accessed on the wide variety of devices without any dependencies with our framework or tools.</p> <p>Also this format will support that advanced interaction features making it more valuable and engaging.</p>

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Basic Style

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Midnight Blue Palette & San Serif Body Copy

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Name: blurb

Application type	Dynamic(ASP.net), database, responsive, Touch friendly
Content Platform	Custom
Dynamic Content	No
Lacuna	<p>Site uses custom platform which is fine if content never leaves the site environment.</p> <p>Dynamic content is loaded on the fly also provision to store user data.</p> <p>The site provides the tools to create the content but these tools are only offline and they cannot create interactive content.</p> <p>Also the site has a very limited set of template that user can utilize to create the content.</p>
Our Solution	<p>The content generated by our site will be in the standard open format that can be accessed on the wide variety of devices without any dependencies with our framework or tools.</p> <p>Also this format will support that advanced interaction features making it more valuable and engaging.</p> <p>Our set of technologies are very customizable and also flexible enough that let us create unlimited set of templates regardless of the technologies we use.</p>



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Name: Xlibris

Application type	Dynamic(Php), database, responsive, Touch friendly
Content Platform	Custom
Dynamic Content	No
Lacuna	<p>Site uses custom platform which is fine if content never leaves the site environment.</p> <p>Dynamic content is loaded on the fly also provision to store user data.</p> <p>The site provides the tools to create the content but these tools are only offline and they cannot create interactive content.</p> <p>The subscription plan that this site provides are way too costly and requires significant investment on initial phases.</p>
Our Solution	The content generated by our site will be in the standard open format that can be accessed on the wide variety of devices without any dependencies with our framework or tools.

Also this format will support that advanced interaction features making it more valuable and engaging.

Our set of technologies are very customizable and also flexible enough that let us create unlimited set of templates regardless of the technologies we use.

The sponsor mechanism will let us make revenue to publish the content without making a mess out of irritating online advertisement and will also greatly reduce the cost associated with the publishing and generation.

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e-Book Publishing at Pothi.com

Introduction to e-book Publishing at Pothi.com

Pothi.com enables authors and publishers to publish and sell e-books through its platform. Authors and Publishers can upload their e-books, set their price and sell it through Pothi.com's e-book store. The details are available in the following sections.

Process of e-book publishing

Process of Publishing

```
graph TD; A[Prepare Files According to Specifications] --> B[Submit on Pothi.com]; B --> C[Receive Files Approval mail within 1-2 business days]; C --> D[Set the MRP and Make the Book Public]
```

The specifications for the files are given in the section after the next.

How to submit files for e-book publishing?

Name: pothi

Application type	Dynamic(ASP.net), database, non-responsive, non-Touch friendly
Content Platform	PDF
Dynamic Content	No
Lacuna	<p>Site uses PDF as the content platform making it limited to the features that PDF can support.</p> <p>Also the site is non-responsive and non-touch friendly making it difficult to use it on mobile and tablet devices.</p>

	<p>Dynamic content is loaded on the fly also provision to store user data.</p> <p>Site uses a very poor backend making everything manual from content submission to content approval and then publishing.</p>
Our Solution	<p>The content generated by our site will be in the standard open format that can be accessed on the wide variety of devices without any dependencies with our framework or tools.</p> <p>Also this format will support that advanced interaction features making it more valuable and engaging.</p> <p>Our automatic approver and reviewer workflows will make approval and review a breeze.</p>

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Short on time? Worried about messing something up? We're here to help.

Name: bookbaby

Application type	Dynamic/php), database, responsive, Touch friendly
-------------------------	--

Content Platform	PDF
Dynamic Content	No
Lacuna	<p>Site use PDF as the content platform making it limited to the features that PDF can support.</p> <p>Also the site is non-responsive and non-touch friendly making it difficult to use it on mobile and tablet devices.</p> <p>Tools are available to create the content but these tools are strictly offline and can output only two file version, PDF and EPUB.</p>
Our Solution	<p>The content generated by our site will be in the standard open format that can be accessed on the wide variety of devices without any dependencies with our framework or tools.</p> <p>Also this format will support that advanced interaction features making it more valuable and engaging.</p> <p>All the tools that we create using this framework are always online and can be accessed from anywhere using any device.</p>

Here's how it works



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Customers order and pay for your book online through stores like Amazon, Barnes & Noble or wholesale book networks including Ingram or Baker & Taylor.



The order comes directly to us

We print, bind and package the order—even if it's just one copy.



Books are shipped

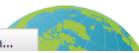
Your books are shipped directly to the customer within 5 business days.



You get paid

We collect the payment, deduct all printing and selling costs, and pay you the net sales.

Transferring data from print.bookbaby.com...



Why do self-published authors need

GIVE FEED

Name: bookbaby

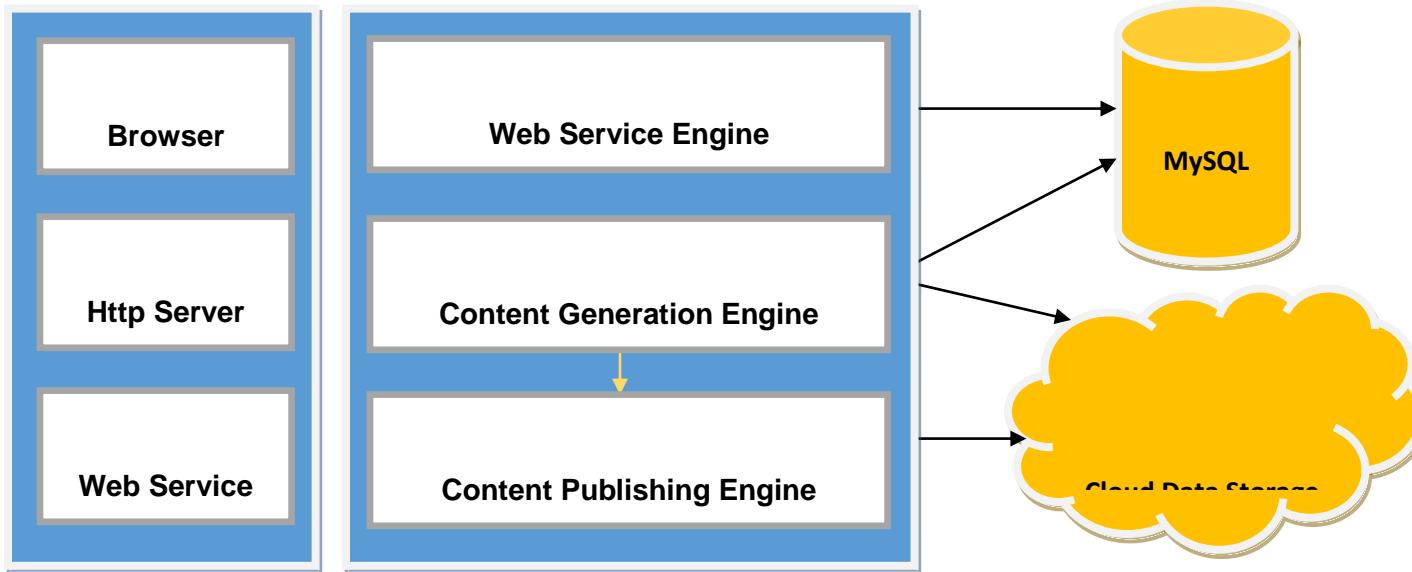
Application type	Dynamic(PHP), database, responsive, Touch friendly
Content Platform	PDF
Dynamic Content	No
Lacuna	<p>Site use PDF as the content platform making it limited to the features that PDF can support.</p> <p>Also the site is non-responsive and non-touch friendly making it difficult to use it on mobile and tablet devices.</p> <p>Tools are available to create the content but these tools are strictly offline and can output only two file version, PDF and EPUB.</p> <p>The site still generates revenue from printing the books, which day by day are becoming more costly to buy and produce.</p>
Our Solution	<p>The content generated by our site will be in the standard open format that can be accessed on the wide variety of devices without any dependencies with our framework or tools.</p> <p>Also this format will support that advanced interaction features making it more valuable and engaging.</p> <p>All the tools that we create using this framework are always online and can be accessed from anywhere using any device.</p>

Our tools and technologies are web 2.0 technologies and will greatly emphasize on saving the environment and hence we will provide limited support to the printable content.

Chapter 3

System Design

3.1 Product perspective



3.1.1 Software Interface

3.1.2 Client on Internet |

Web Browser, Operating System (any)

3.1.3 Web Server

WAMP, Operating System (Windows)

3.1.4 Data Base Server

MySQL, Operating System (windows)

3.1.5 Development End

RAD (PHP, HTML, XML, AJAX, JQuery), MYSQL, OS (Windows), WAMP (Web Server)

3.2 Hardware Interface

3.2.1 Minimum requirements

Client Side

	Processor	Ram	Disk Space
Internet explorer 8	Intel Pentium III or AMD - 800 MHz	128 MB	100 MB

Server Side

	Processor	Ram	Disk Space
RAD	Intel Pentium III or AMD - 800 MHz	1 GB	3.5 GB
MySQL	Intel Pentium III or AMD - 800 MHz	256 MB	150 MB

3.2.2 Recommended requirements

Client Side

	Processor	Ram	Disk Space
RAD	All Intel or AMD - 1 GHZ	256 MB	100 MB

Server Side

	Processor	Ram	Disk Space
Internet explorer 8	All Intel or AMD - 2 GHZ	2 GB	3.5 GB
MySQL	All Intel or AMD - 2	512 MB	500 MB

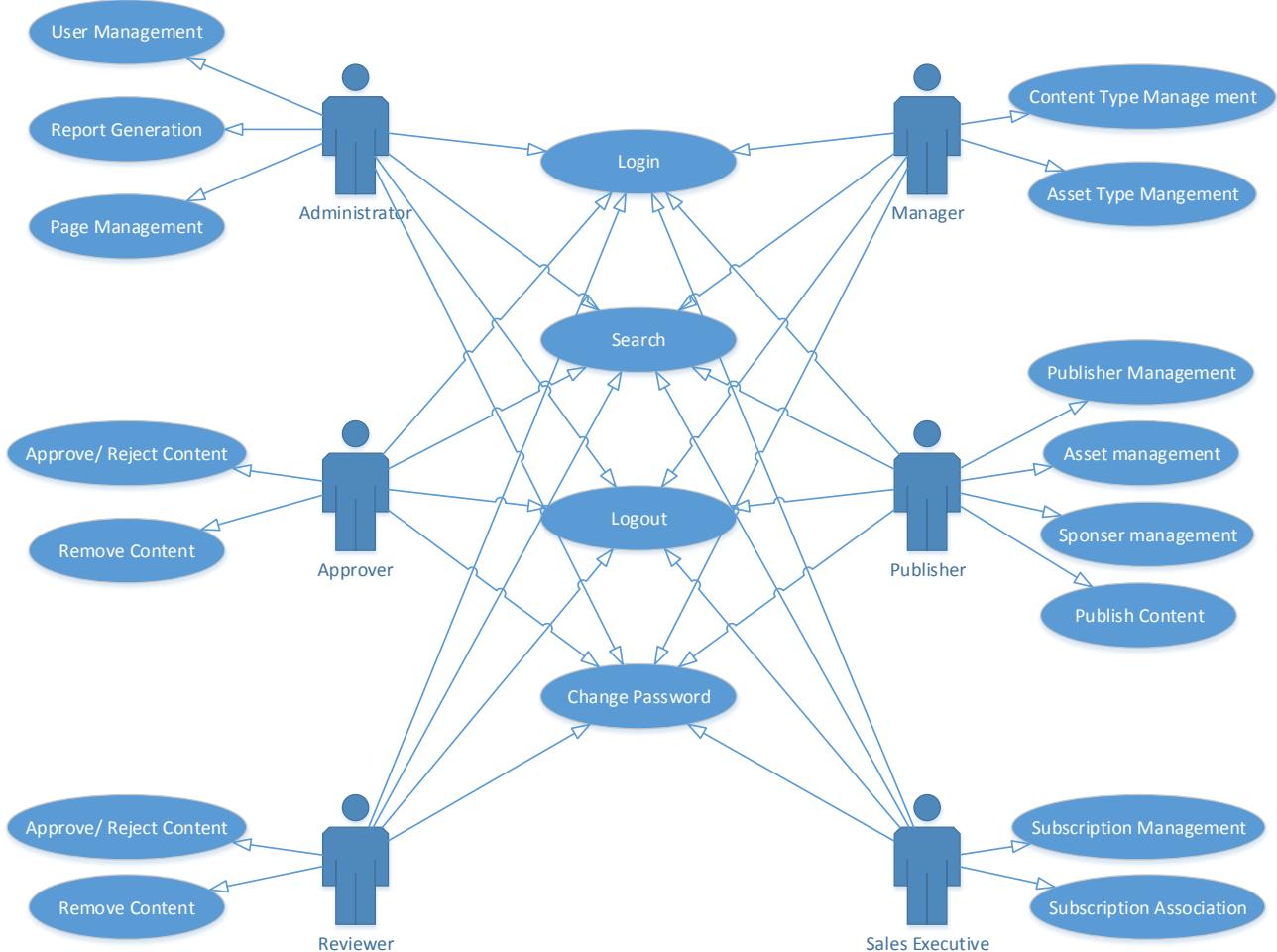
3.3 Communication Interface

- Client (customer) on Internet will be using HTTP/HTTPS protocol.
- Client (system user) on Internet will be using HTTP/HTTPS protocol

3.4 Constraints

- GUI is only in English.
- Login and password is used for the identification of users.
- Only registered users will be authorized to use the services.
- Limited to HTTP/HTTPS.

3.5 Use Case Model Survey



3.5.1 Administrator

A super user with superior privileges that affects the whole system including the users of the system. It can manage users, generate reports and also sets the scope of the user's actions using page management.

3.5.2 Approver

This user would approve/ reject the content published by publisher.

3.5.3 Reviewer

This user would review the decision taken by the approver for final release.

3.5.4 Sales Executive

This user would generate and associate valid subscription plan with the publisher content and would also assign the service agreement on using the published content.

3.5.5 Publisher

This user is responsible for generation of the content using the system tools and content templates. It would also manage the assets that published content would use. It would manage the sponsors and publishers associated with each generated content.

3.5.6 Manager

This user is responsible for managing the content types and templates that publisher would require and consume. This user is also responsible for managing the asset types that system supports.

3.6 Architecture Diagram



3.7 Database Design

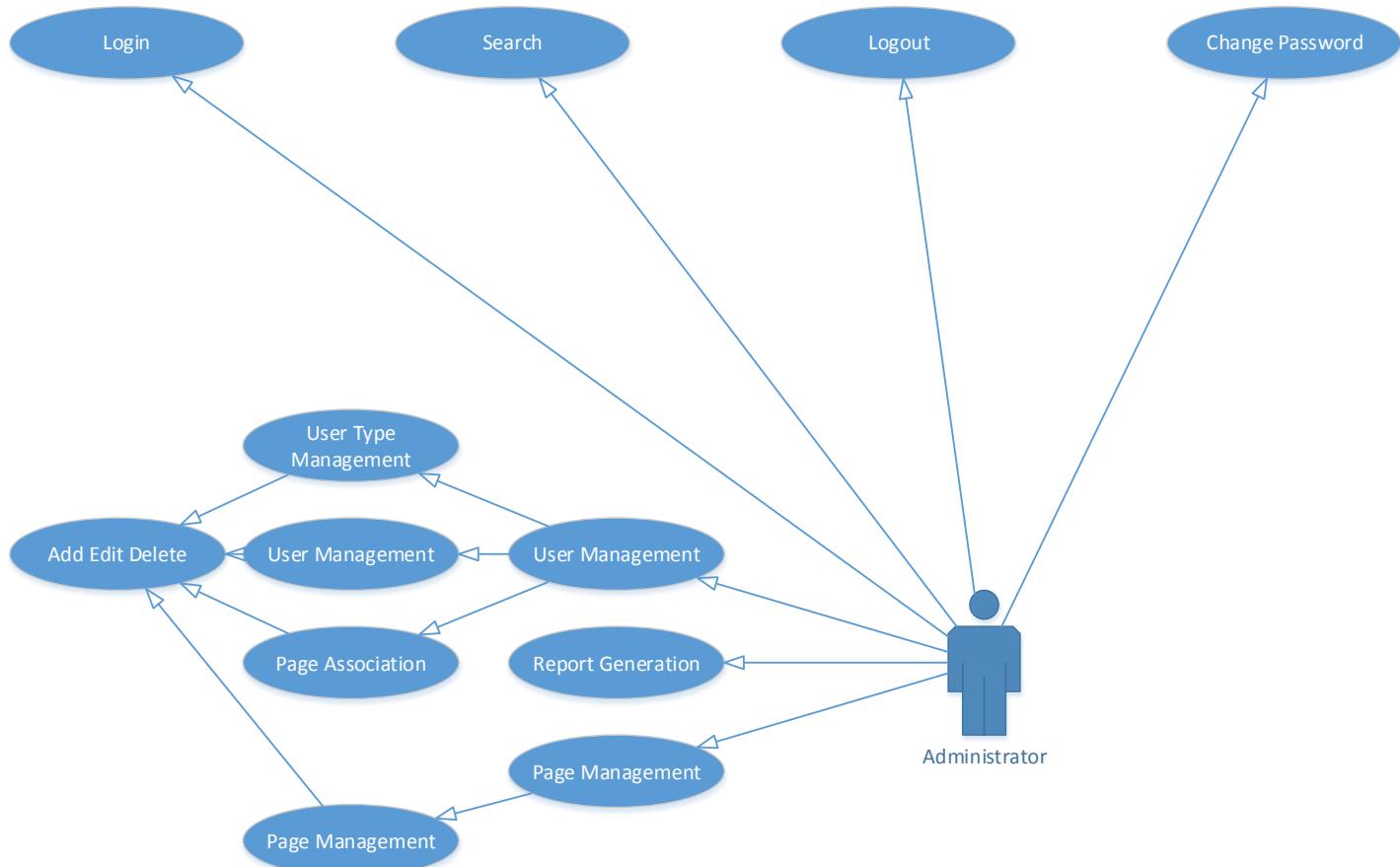
The screenshot shows the phpMyAdmin interface for the 'evolution' database. The left sidebar lists tables under the 'evolution' schema. The main area displays a table of 25 tables, each with columns for Action, Rows, Type, Collation, Size, and Overhead. The tables listed are: asset, asset_type, asset_type_extention_association, content_subtype, content_template, content_type, content_type_asset_type_association, extention, module, module_asset_type_association, module_association, page, page_association, product, product_approval, product_content, product_content_asset, product_content_flow, product_display, product_manager, product_review, product_sbscription, product_template, publisher, sponser, and subscription.

Table	Action	Rows	Type	Collation	Size	Overhead
asset	Browse Structure Search Insert Empty Drop	~0	InnoDB	latin1_swedish_ci	48 KiB	-
asset_type	Browse Structure Search Insert Empty Drop	~7	InnoDB	latin1_swedish_ci	16 KiB	-
asset_type_extention_association	Browse Structure Search Insert Empty Drop	~13	InnoDB	latin1_swedish_ci	48 KiB	-
content_subtype	Browse Structure Search Insert Empty Drop	~0	InnoDB	latin1_swedish_ci	32 KiB	-
content_template	Browse Structure Search Insert Empty Drop	~0	InnoDB	latin1_swedish_ci	32 KiB	-
content_type	Browse Structure Search Insert Empty Drop	~0	InnoDB	latin1_swedish_ci	16 KiB	-
content_type_asset_type_association	Browse Structure Search Insert Empty Drop	~0	InnoDB	latin1_swedish_ci	48 KiB	-
extention	Browse Structure Search Insert Empty Drop	~2	InnoDB	latin1_swedish_ci	16 KiB	-
module	Browse Structure Search Insert Empty Drop	~1	InnoDB	latin1_swedish_ci	16 KiB	-
module_asset_type_association	Browse Structure Search Insert Empty Drop	~7	InnoDB	latin1_swedish_ci	48 KiB	-
module_association	Browse Structure Search Insert Empty Drop	~5	InnoDB	latin1_swedish_ci	48 KiB	-
page	Browse Structure Search Insert Empty Drop	~5	InnoDB	latin1_swedish_ci	16 KiB	-
page_association	Browse Structure Search Insert Empty Drop	~5	InnoDB	latin1_swedish_ci	48 KiB	-
product	Browse Structure Search Insert Empty Drop	~0	InnoDB	latin1_swedish_ci	16 KiB	-
product_approval	Browse Structure Search Insert Empty Drop	~0	InnoDB	latin1_swedish_ci	32 KiB	-
product_content	Browse Structure Search Insert Empty Drop	~0	InnoDB	latin1_swedish_ci	32 KiB	-
product_content_asset	Browse Structure Search Insert Empty Drop	~0	InnoDB	latin1_swedish_ci	48 KiB	-
product_content_flow	Browse Structure Search Insert Empty Drop	~0	InnoDB	latin1_swedish_ci	16 KiB	-
product_display	Browse Structure Search Insert Empty Drop	~0	InnoDB	latin1_swedish_ci	64 KiB	-
product_manager	Browse Structure Search Insert Empty Drop	~0	InnoDB	latin1_swedish_ci	48 KiB	-
product_review	Browse Structure Search Insert Empty Drop	~0	InnoDB	latin1_swedish_ci	32 KiB	-
product_sbscription	Browse Structure Search Insert Empty Drop	~0	InnoDB	latin1_swedish_ci	32 KiB	-

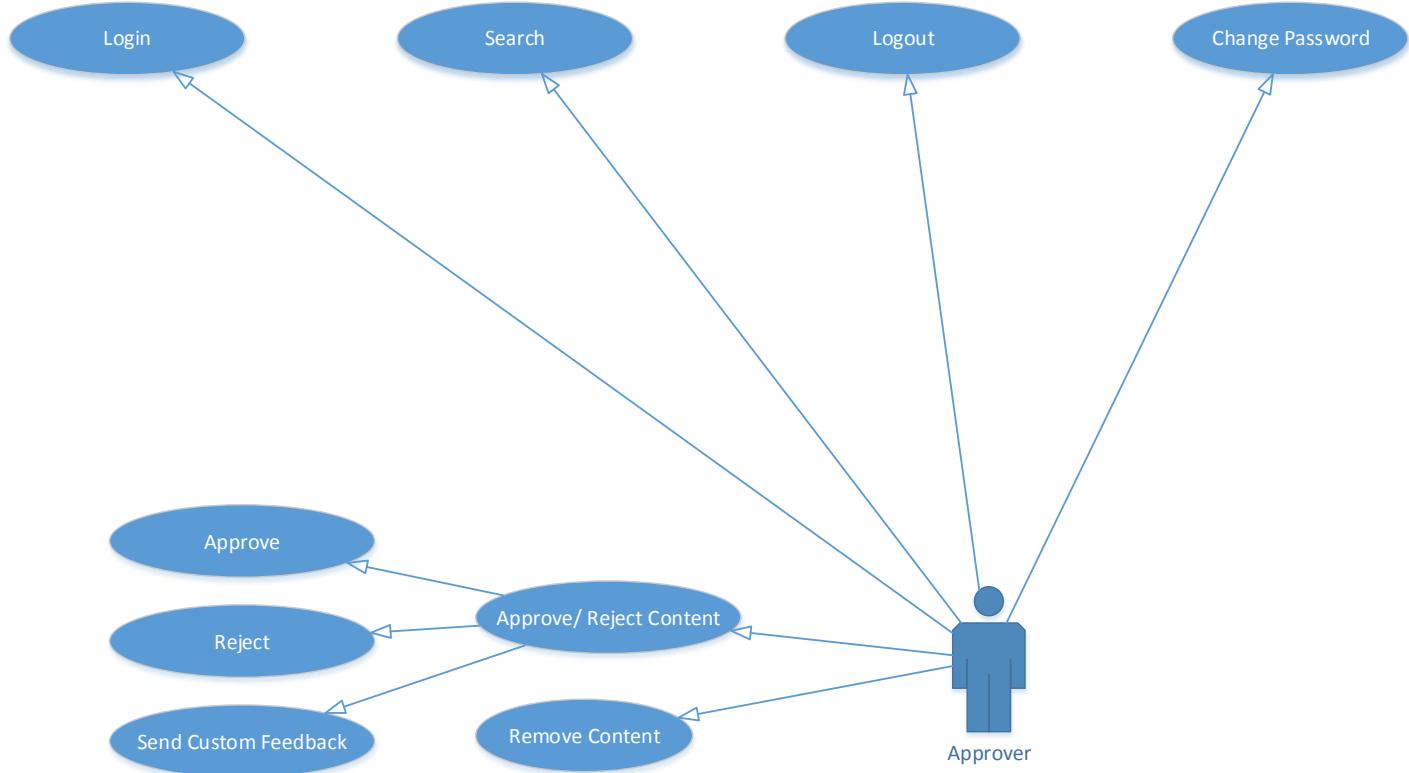
3.8 Specific Requirements

3.8.1 Use case reports

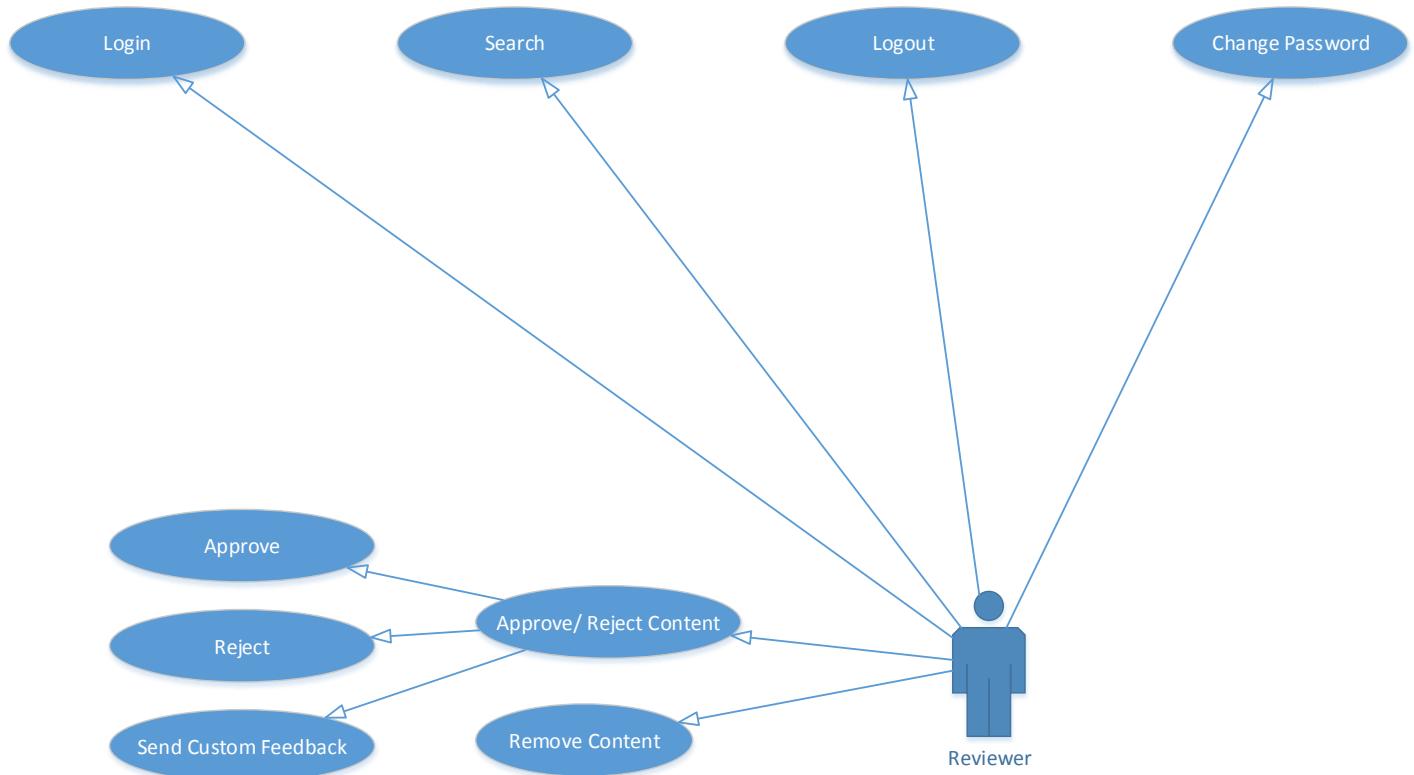
3.8.1.1 Administrator



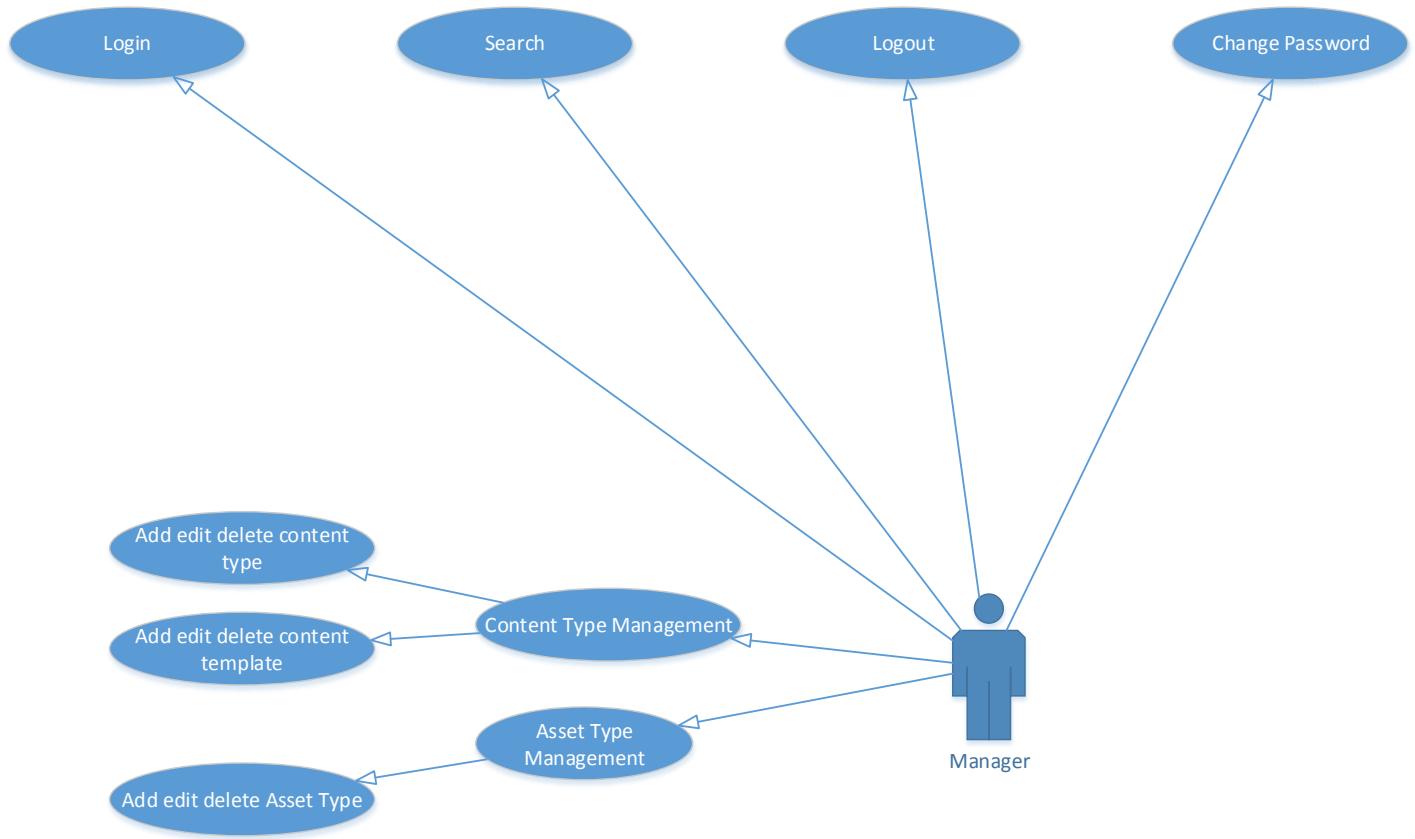
3.8.1.2 Approver



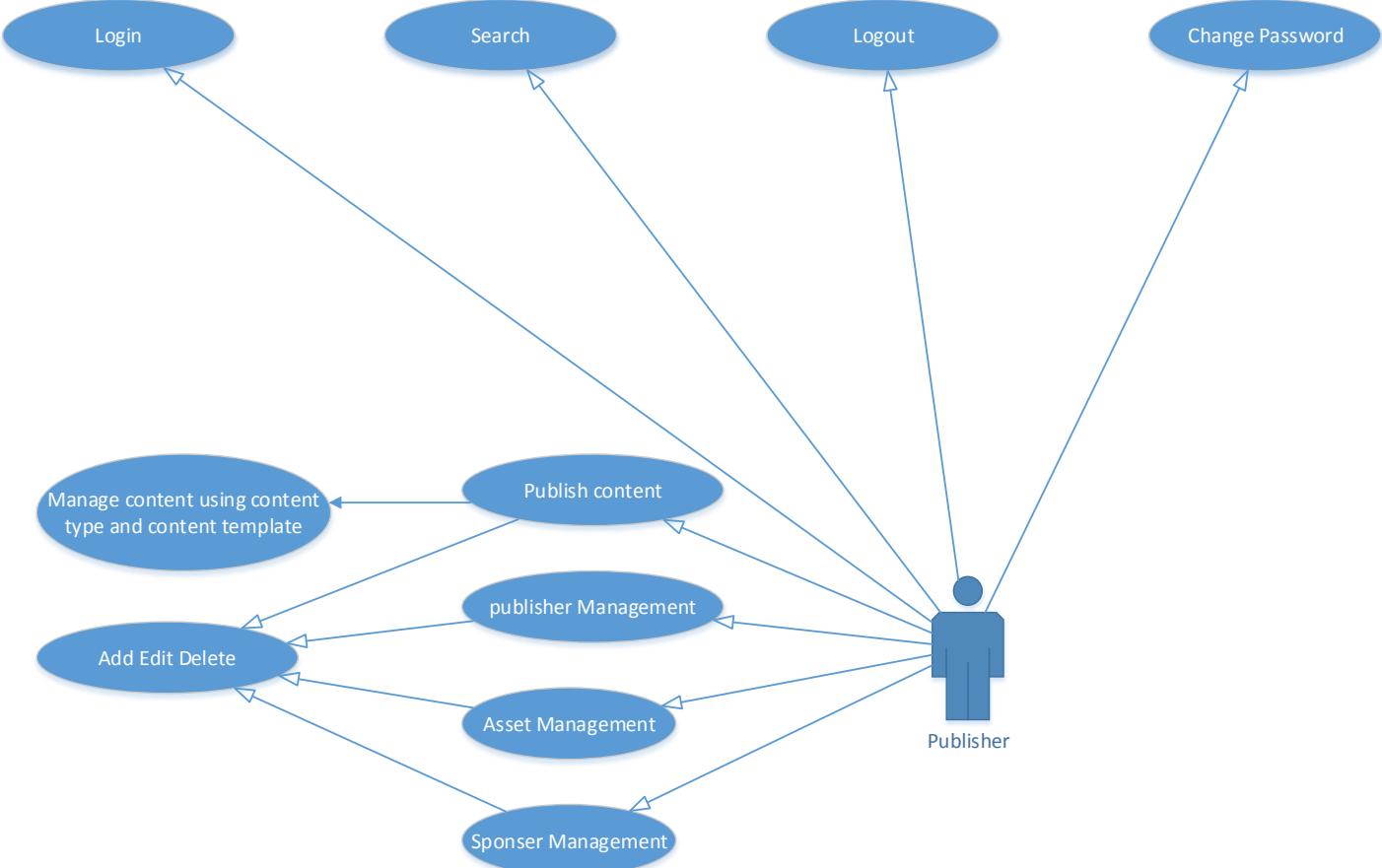
3.8.1.3 Reviewer



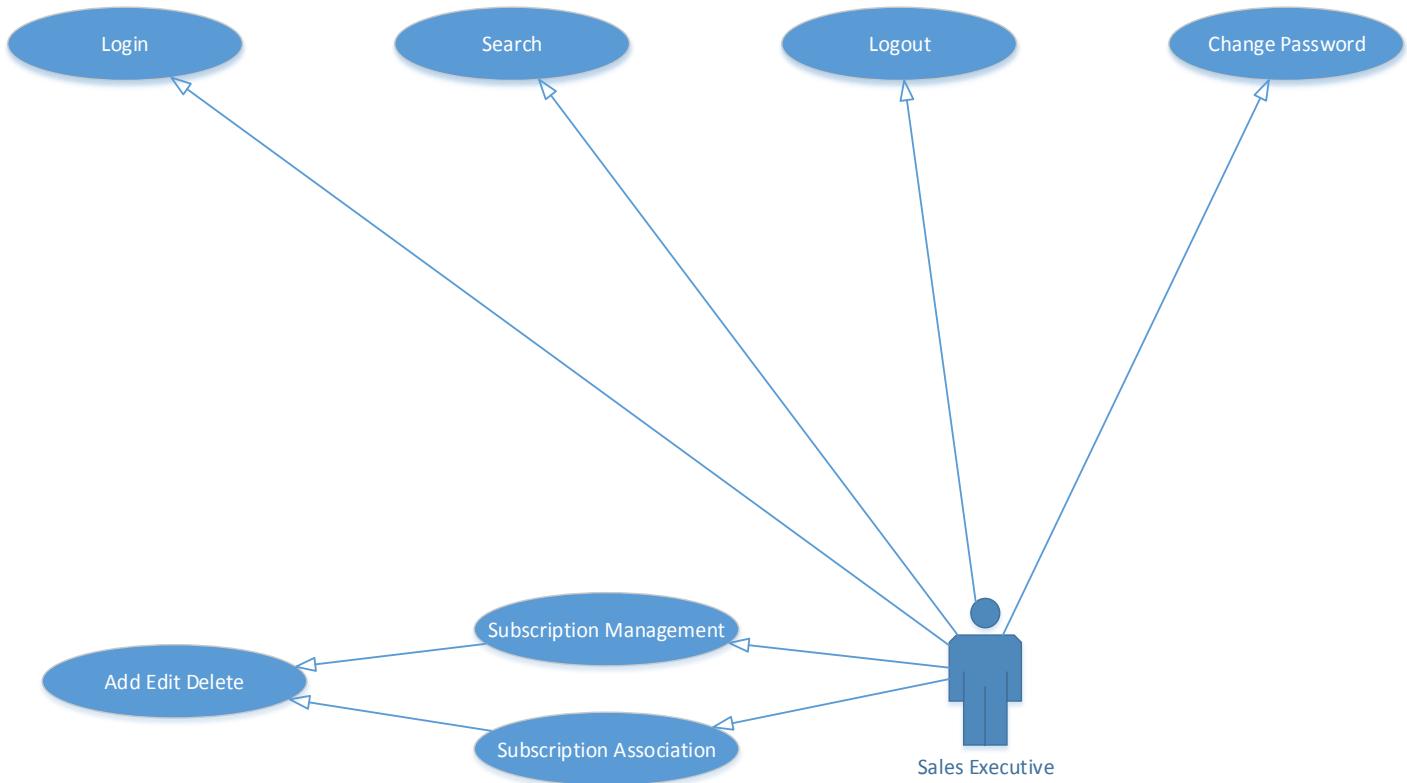
3.8.1.4 Manager



3.8.1.5 Publisher

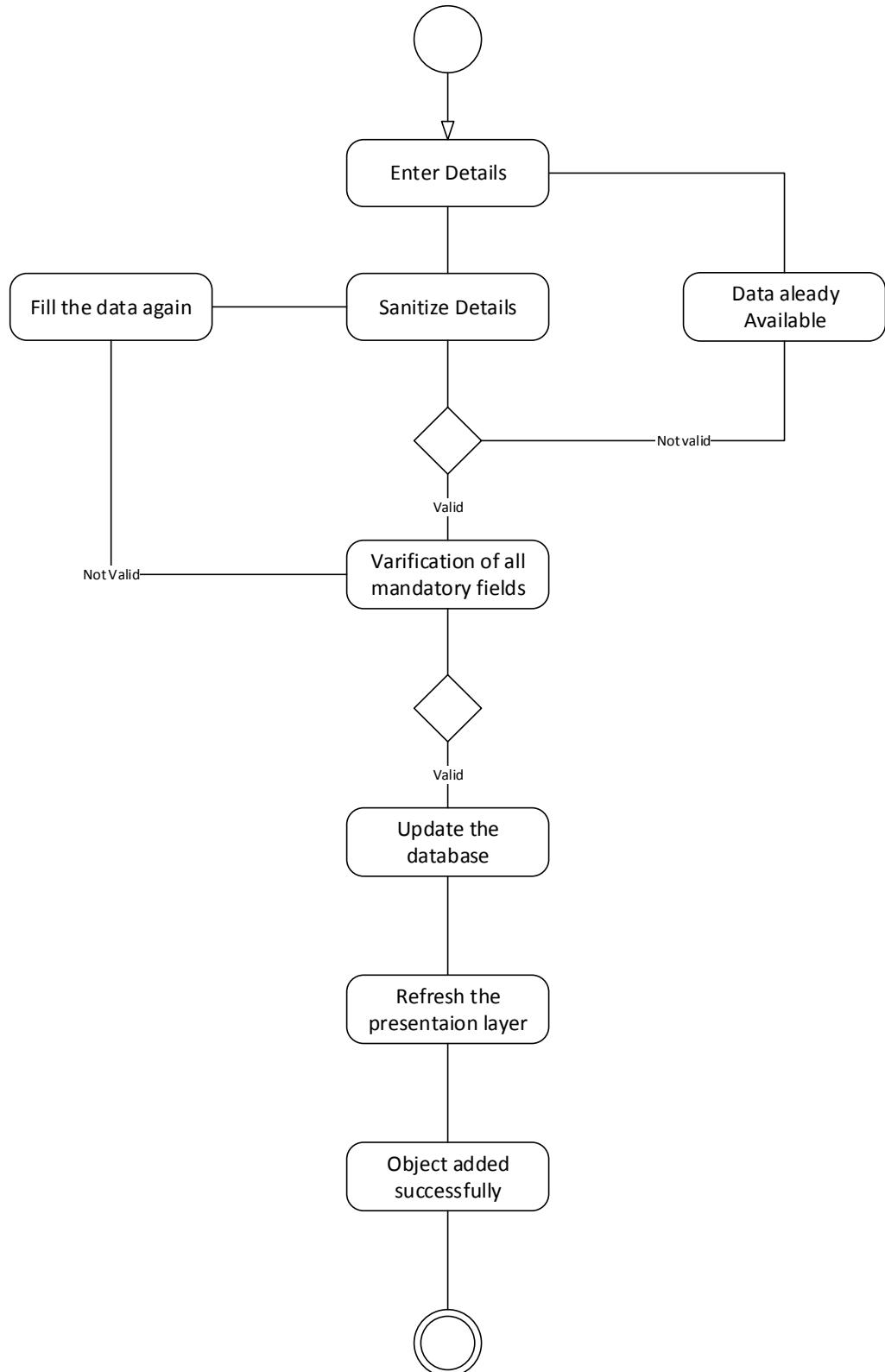


3.8.1.6 Sales Executive

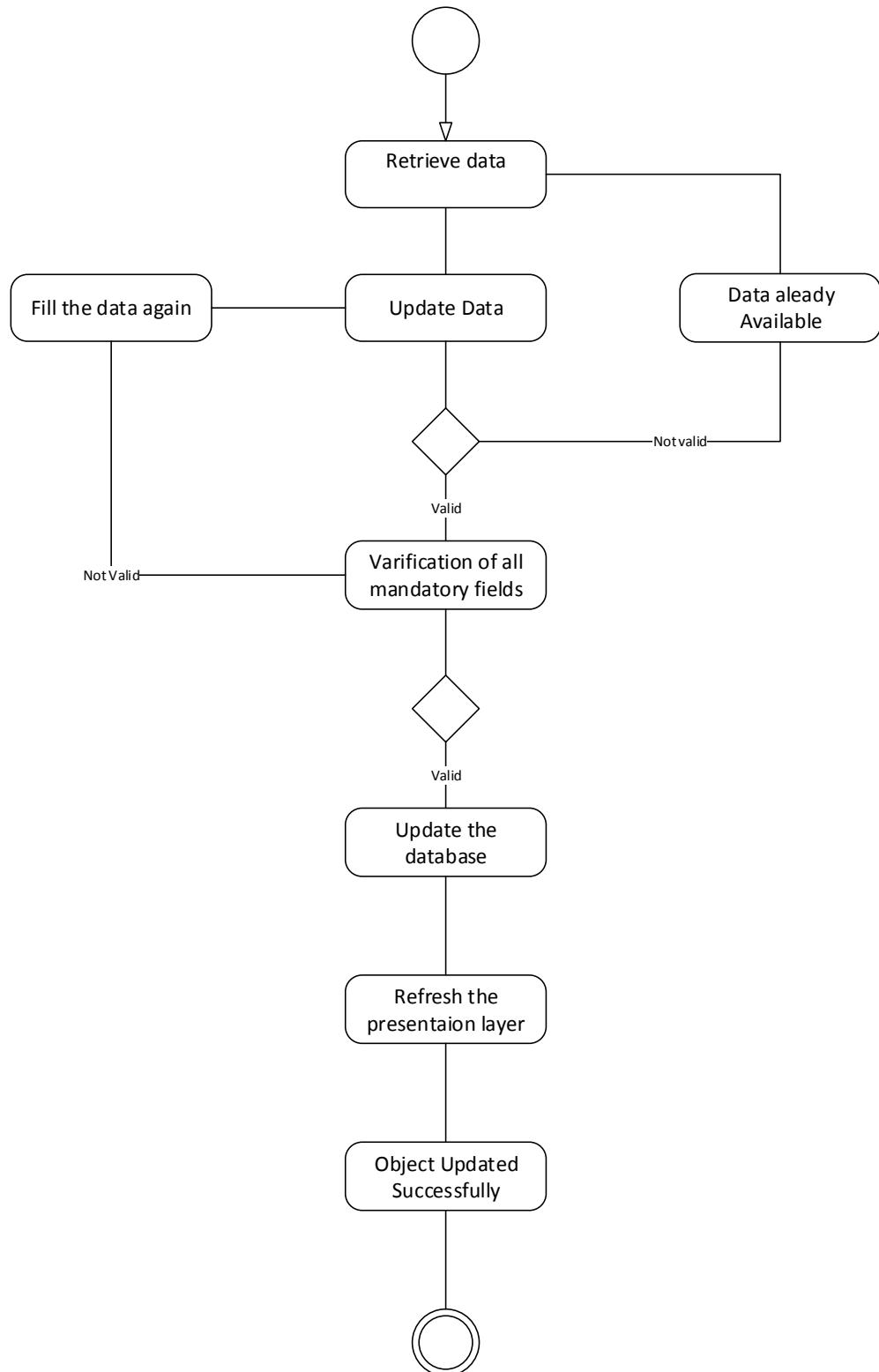


3.8.2 Activity Diagrams

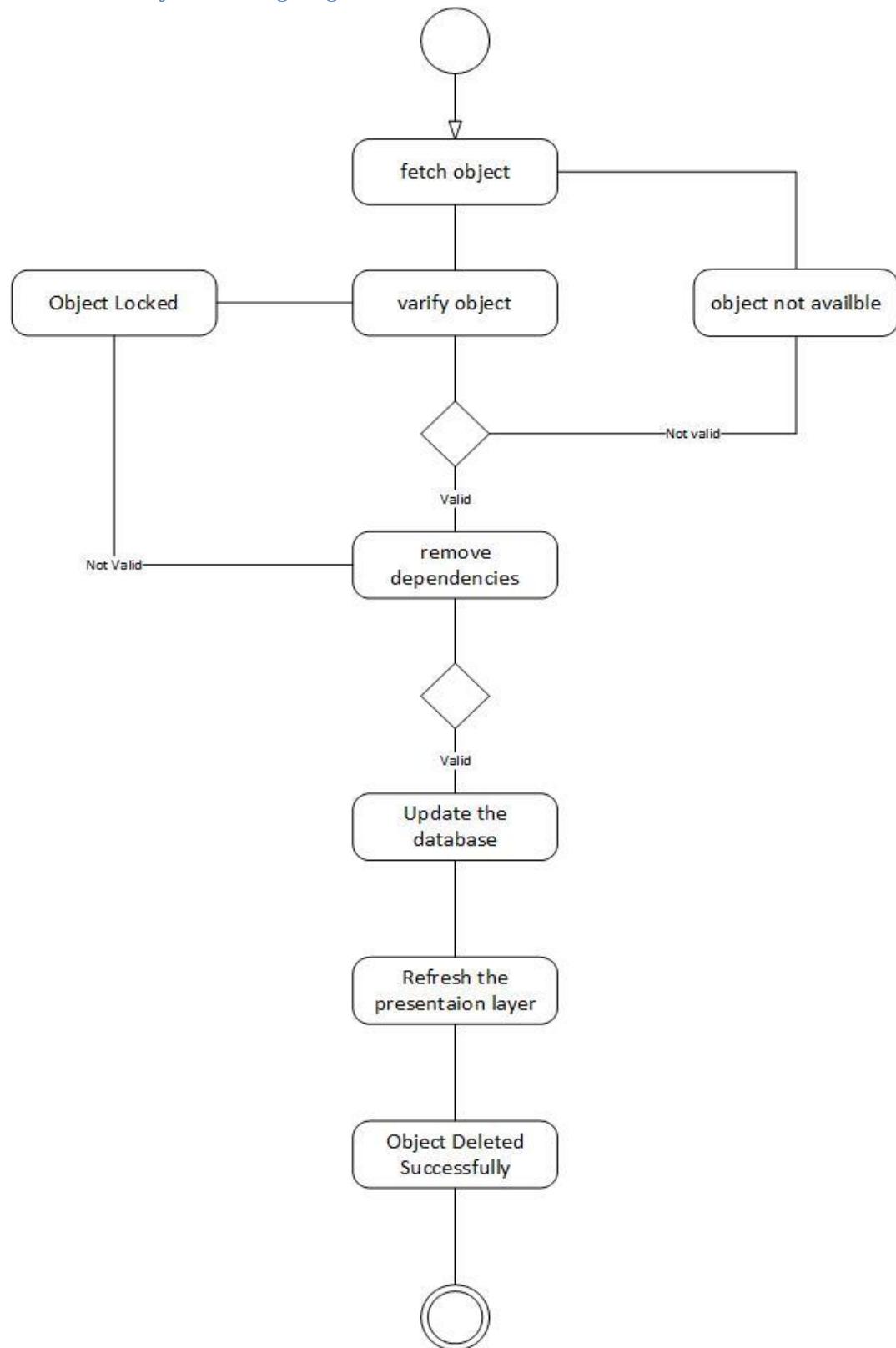
3.8.2.1 Generalized Object insertion diagram



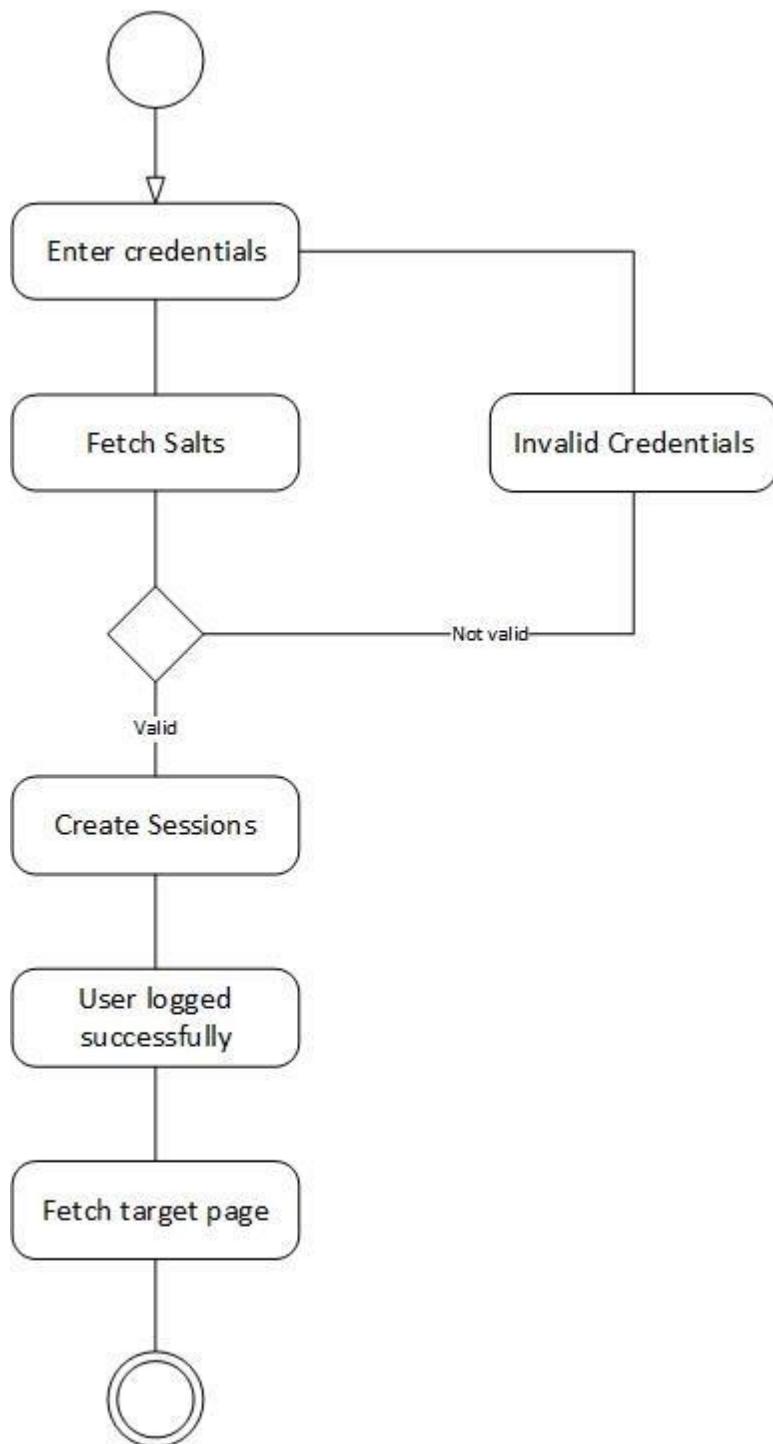
3.8.2.2 Generalized Object editing diagram



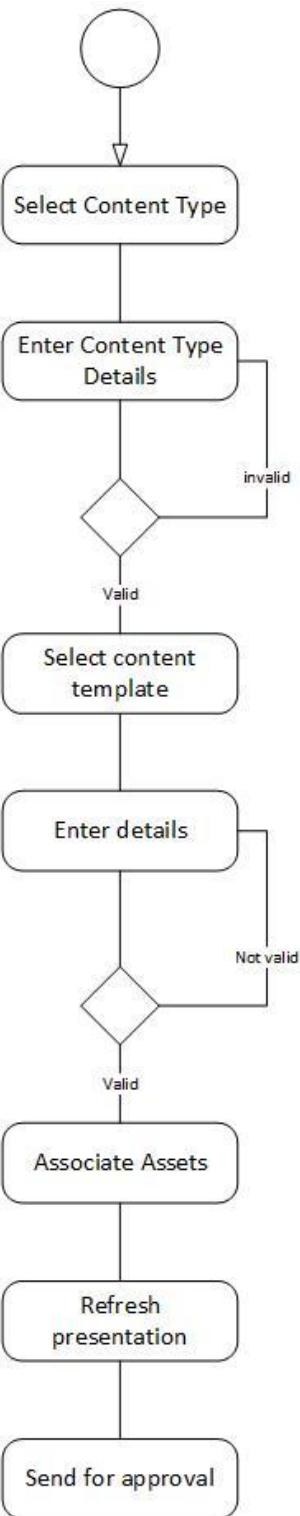
3.8.2.3 Generalized Object Deleting diagram



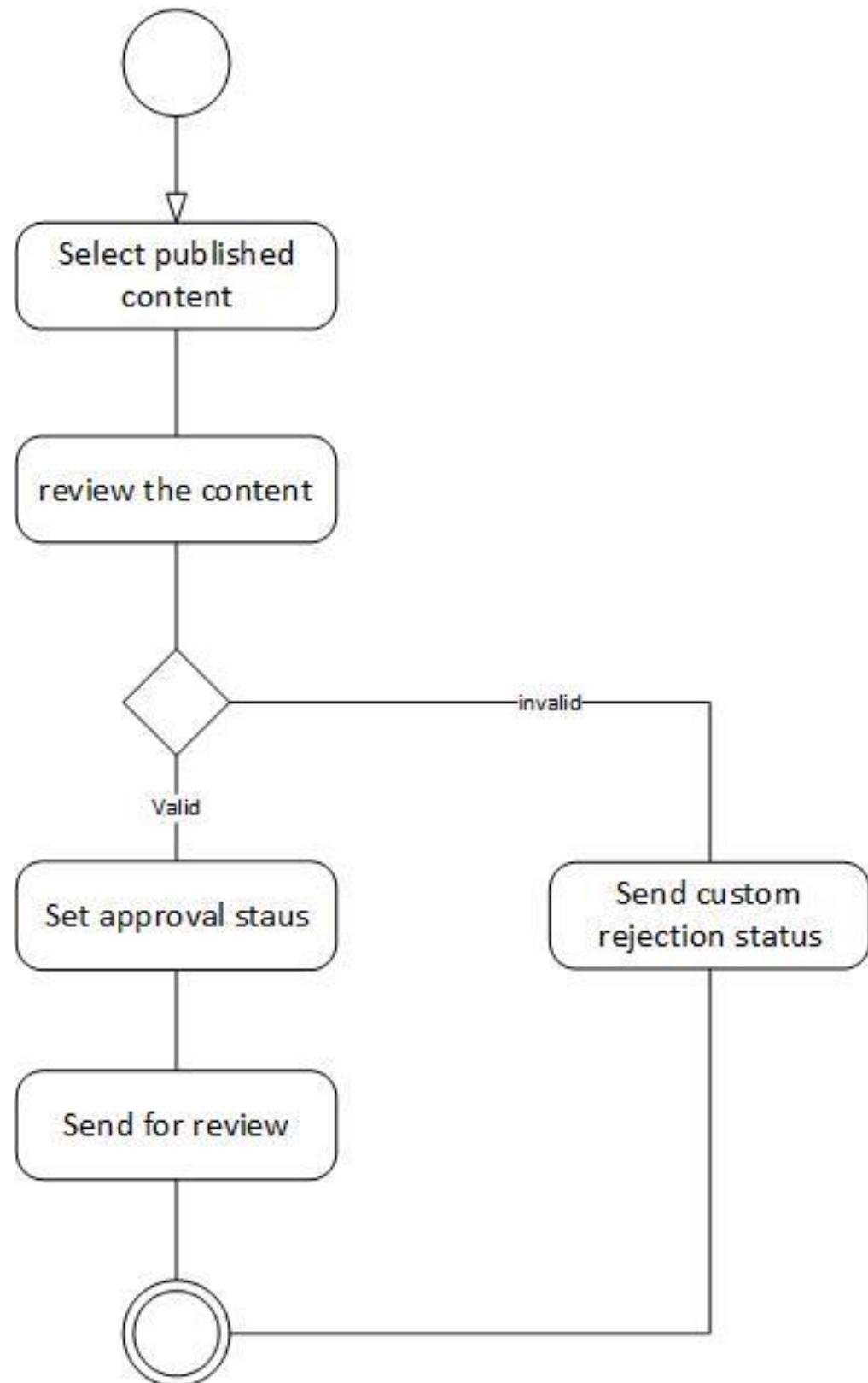
3.8.2.4 Generalized user login Diagram



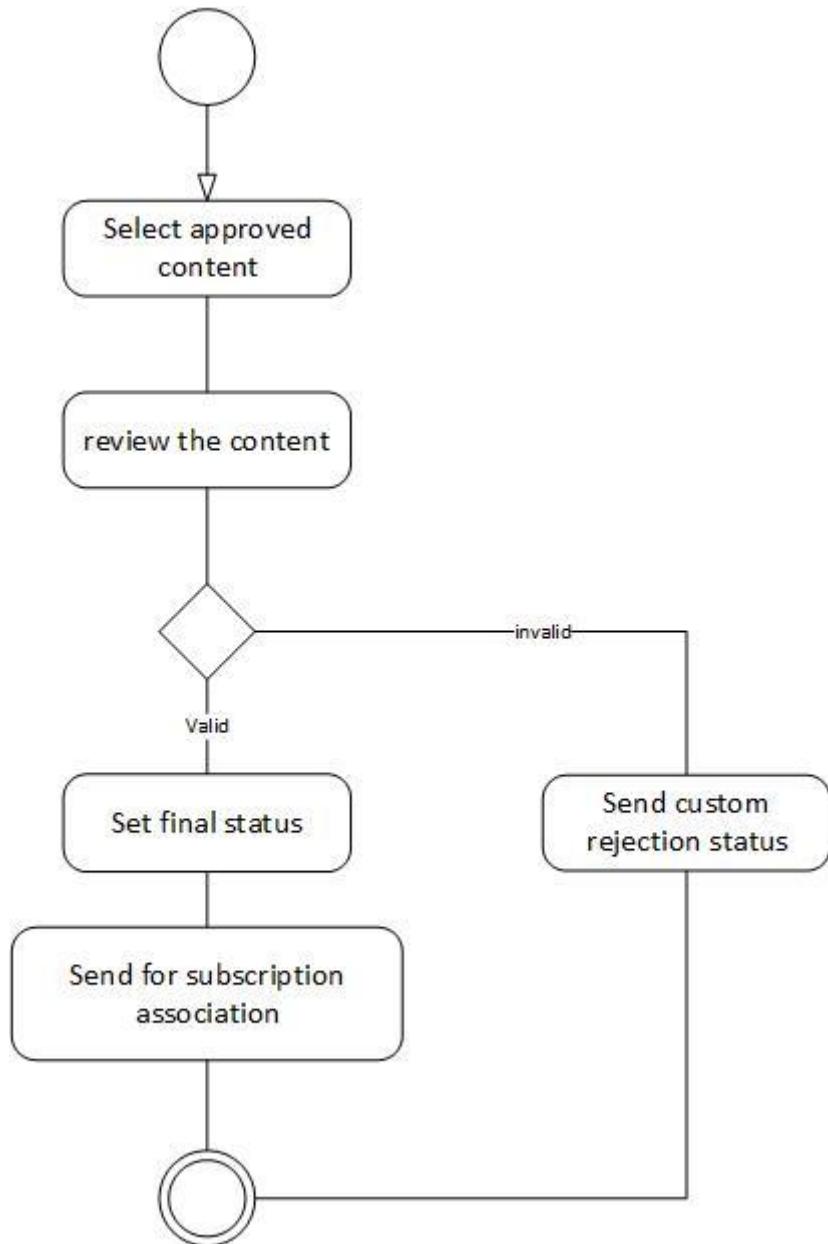
3.8.2.5 Content publishing diagram



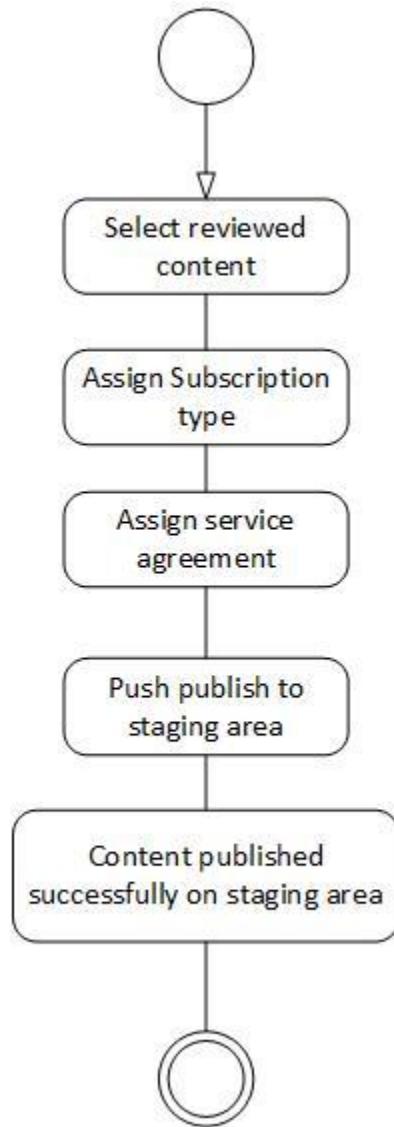
3.8.2.6 Content Approval diagram



3.8.2.7 Content Review diagram

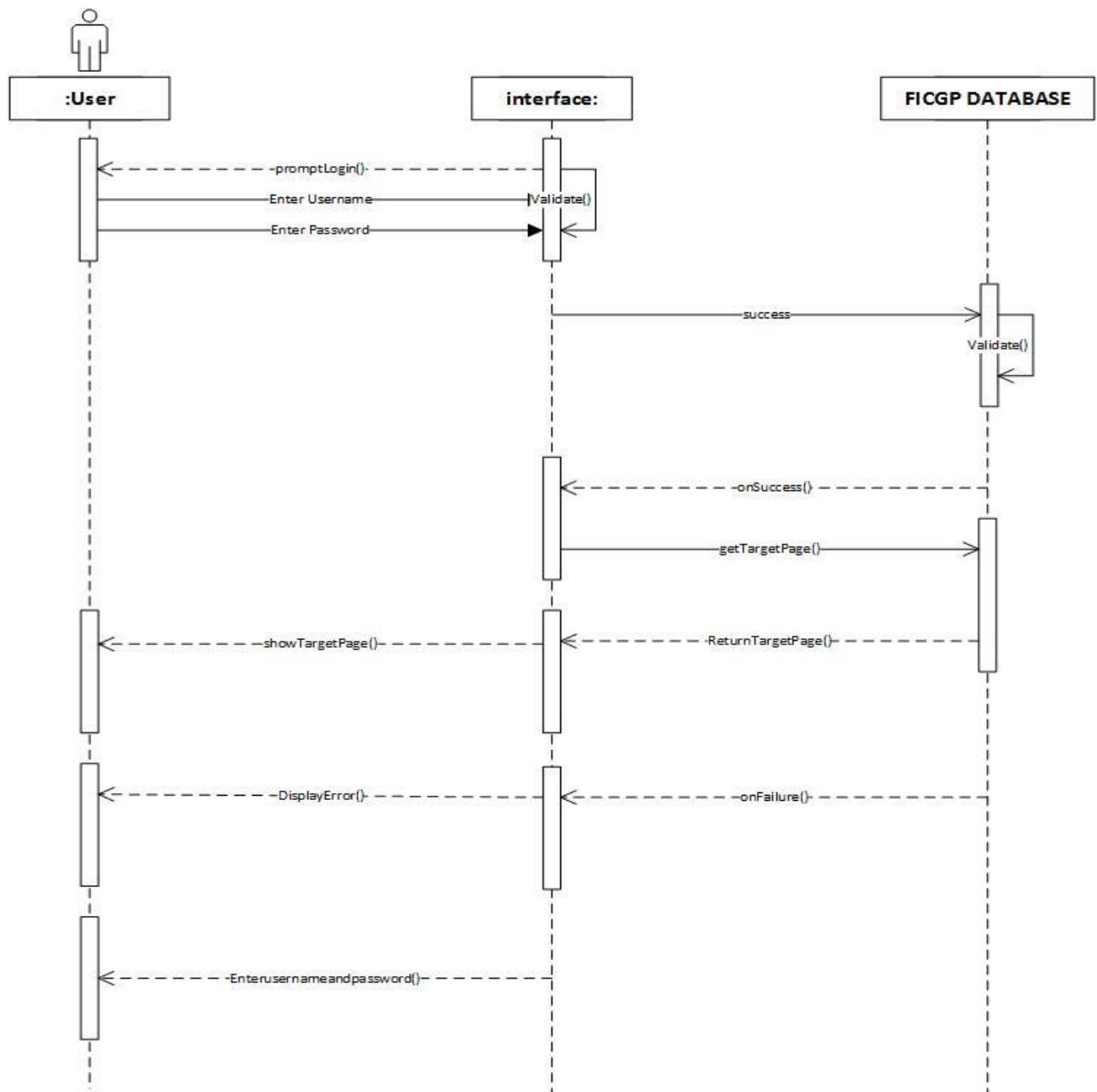


3.8.2.8 Content push staging diagram

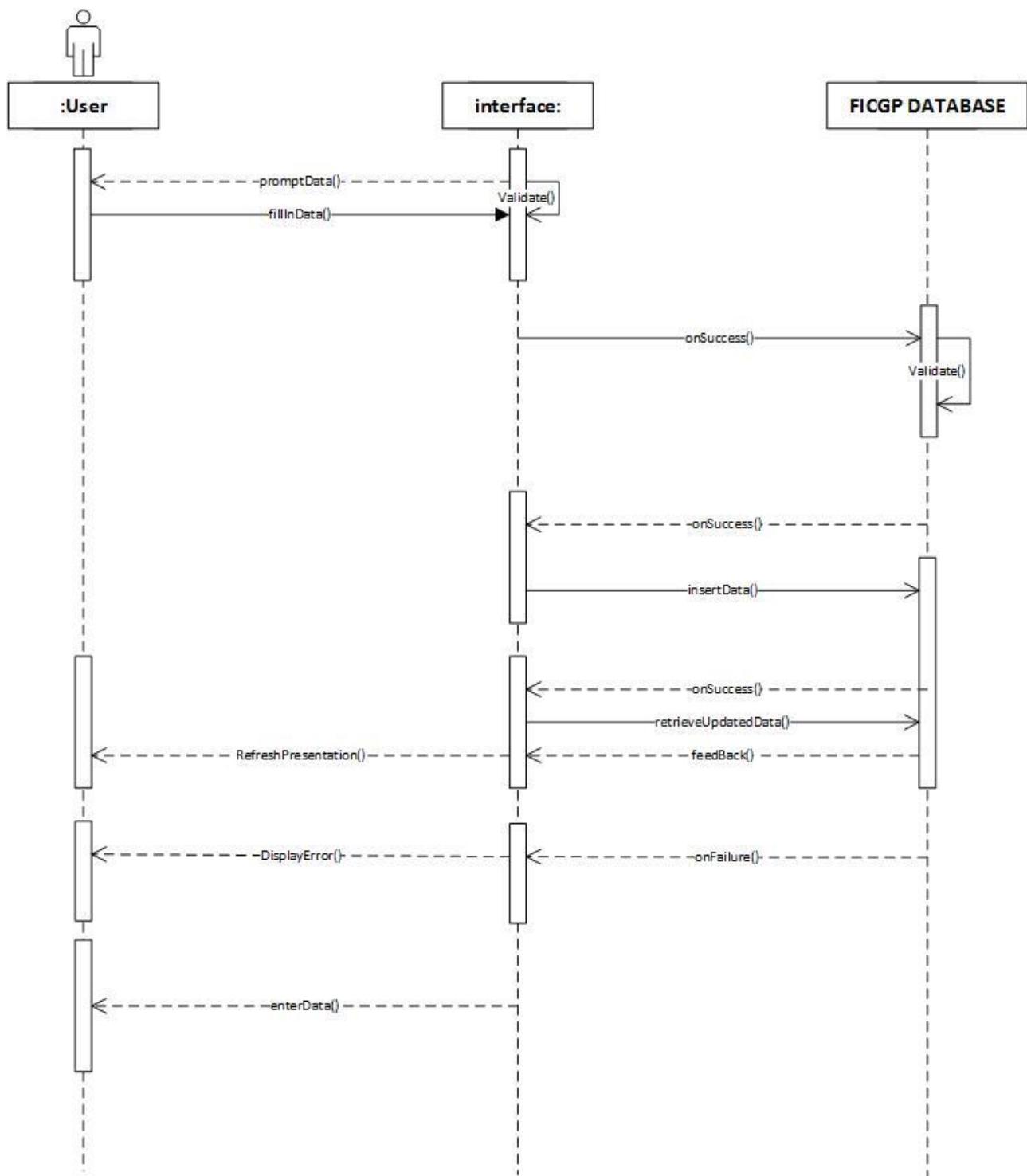


3.8.3 Sequence Diagrams

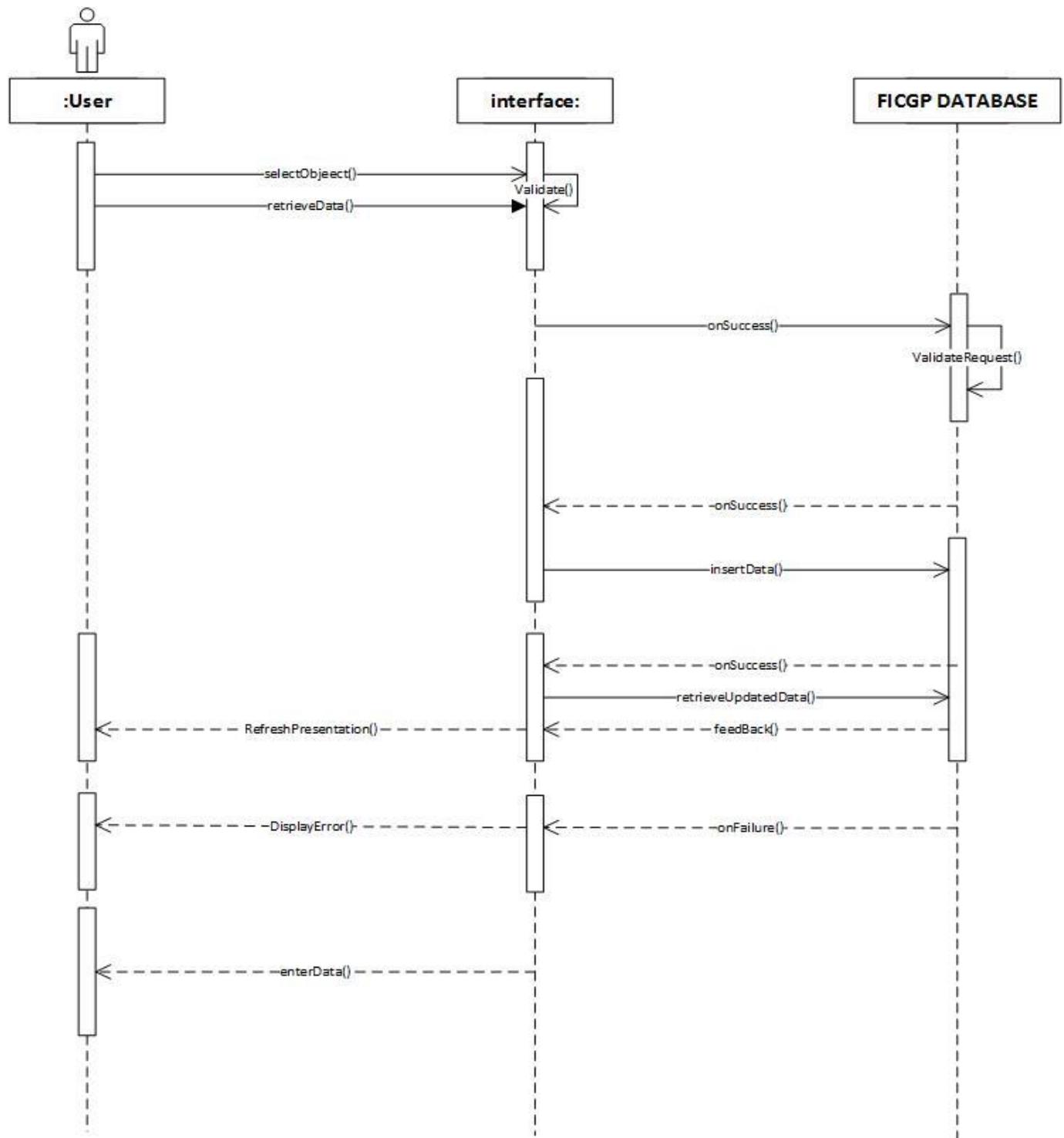
3.8.3.1 User login sequence diagram



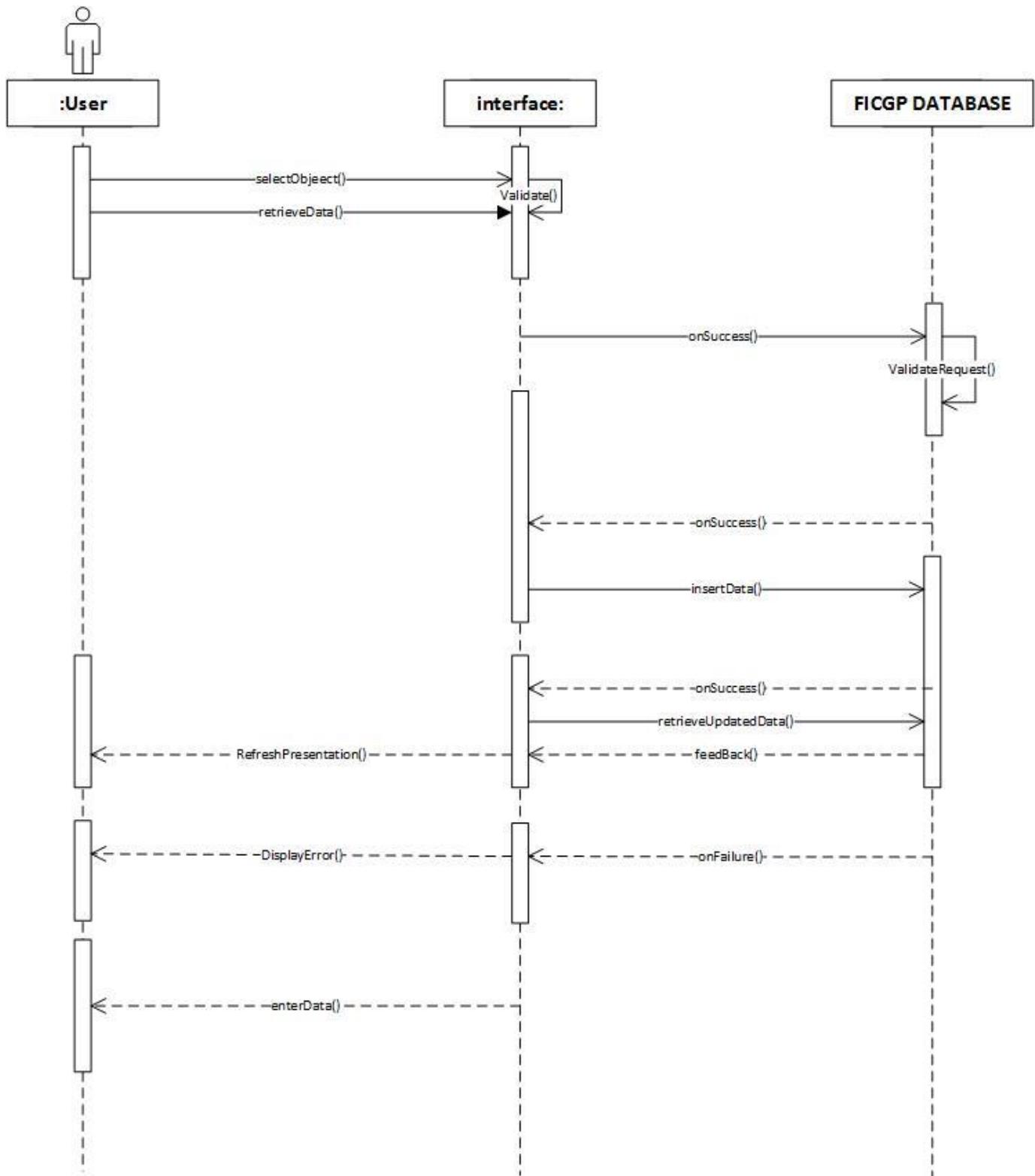
3.8.3.2 Add object sequence diagram



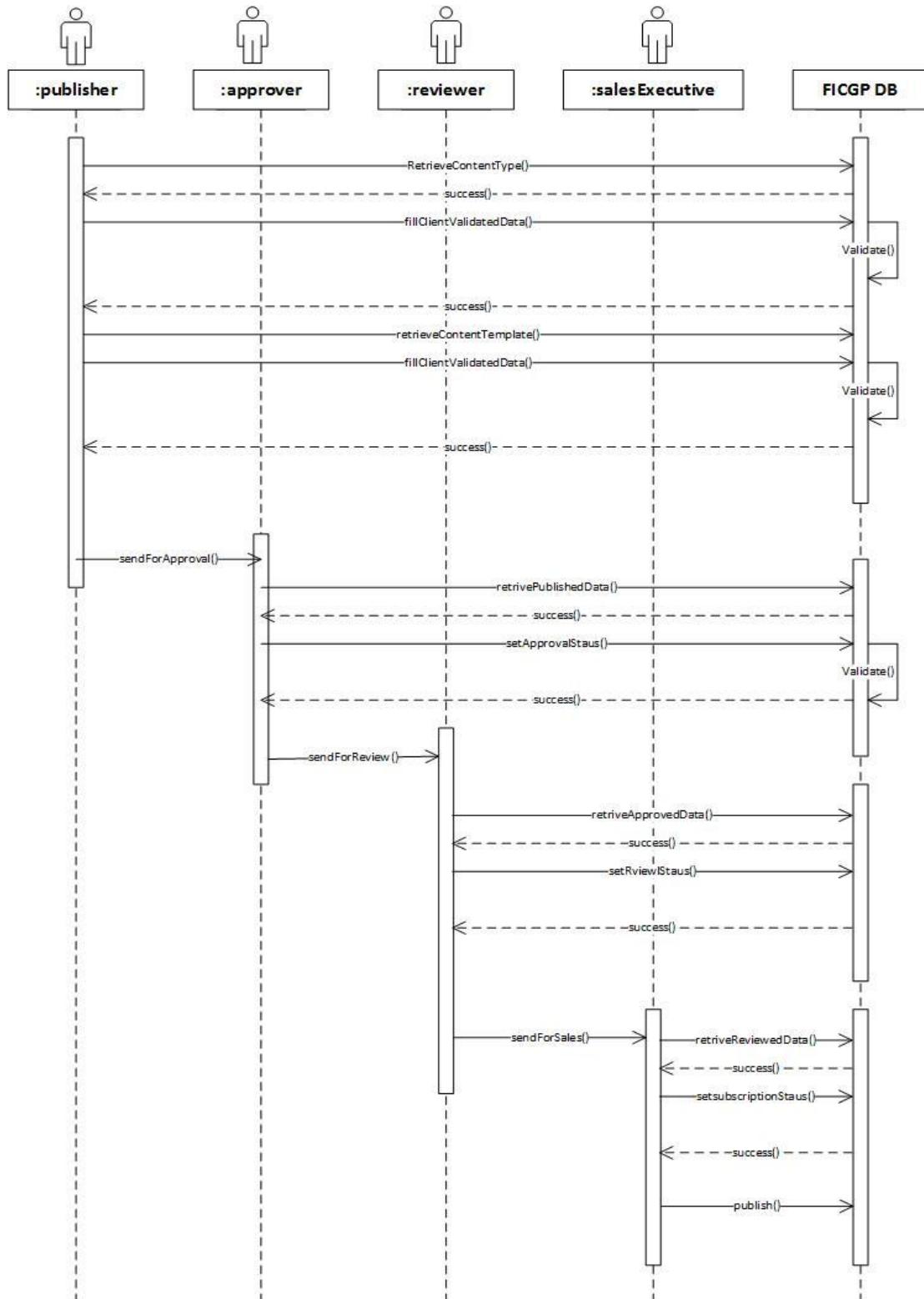
3.8.3.3 Edit Object sequence diagram



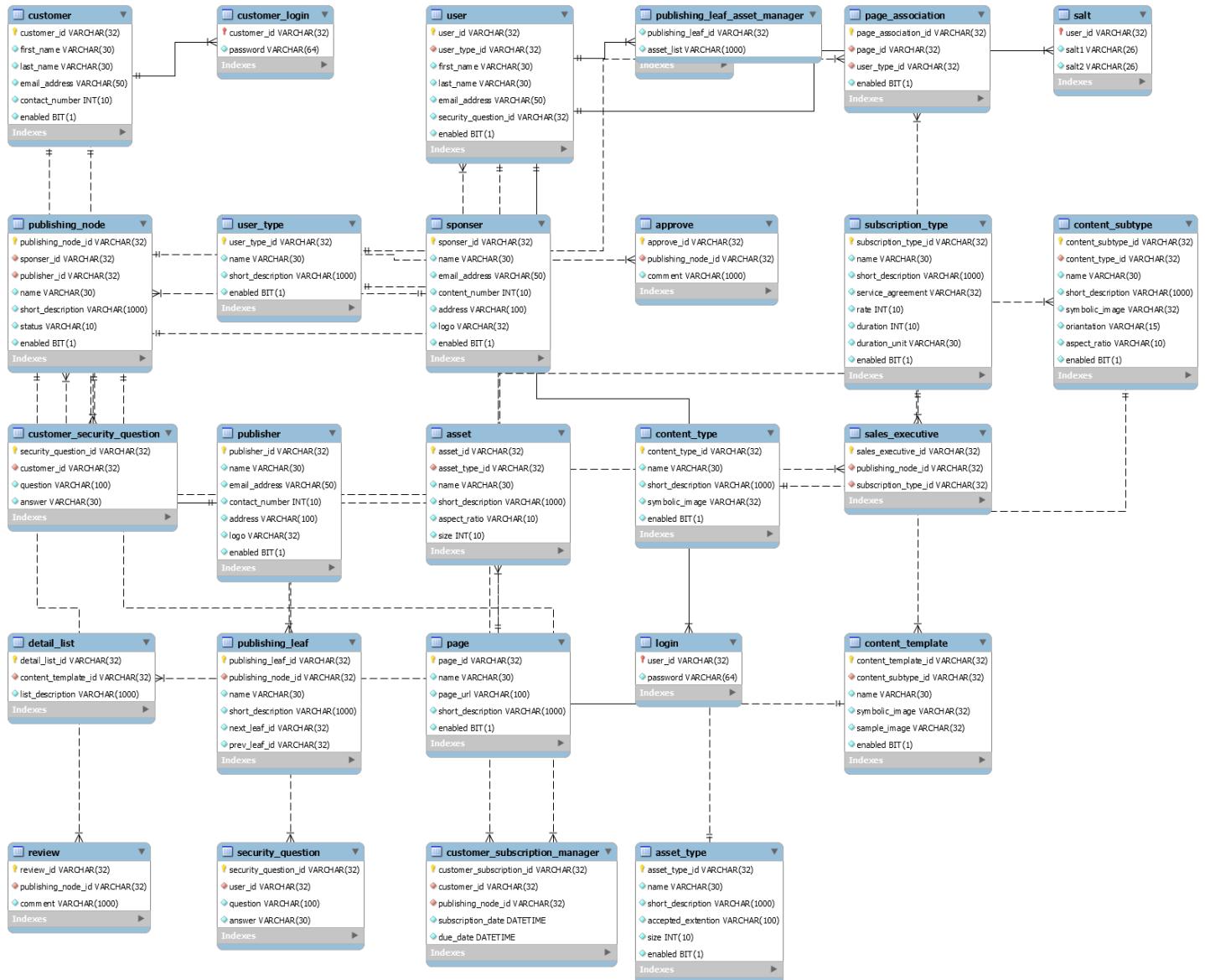
3.8.3.4 Delete Object sequence diagram



3.8.3.5 Publishing Sequence Diagram



3.8.4 Class Diagram



3.8.5 CRC Index Cards

Approve

Class Name :	Approve
Class Type :	Interaction
Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Aggregate Integrity : Guarded
Responsibility :	Collaborations :
Approve() Publish()	Publishing Node

Asset Type

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create() Update() Delete()	Asset Content Type Asset Type Association Module Asset Type Association

Asset Type Extension Association

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create() Update() Delete()	Asset Type

Asset

Class Name :	Asset
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Aggregate Integrity : Guarded
Responsibility :	Collaborations :
Create()	Asset Type
Update()	Product Content Asset
Delete()	

Authorized

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create()	Login
Update()	
Delete()	

Content Type

Class Name :	Content Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create()	Content Subtype
Update()	Content Template
Delete()	Content Type Asset Type Association Product Manager

Content Subtype

Class Name :	Content Subtype
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Aggregate Integrity : Guarded
Responsibility :	Collaborations :
Create()	Content Type
Update()	Product Manager
Delete()	

Content Template

Class Name :	Content Template
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Concurrent Persistence : Permanent Inclusiveness : Aggregate Integrity : Guarded
Responsibility :	Collaborations :
Create()	Content Type
Update()	Detail List
Delete()	Content Template Hint Product Template

Content Template Hint

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create()	Content Template
Update()	
Delete()	

Content Type Asset Type Association

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create()	Asset Type
Update()	Content Type
Delete()	

Detail List

Class Name :	Detail List
Class Type :	Interaction
Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Aggregate Integrity : Guarded
Responsibility :	Collaborations :
Create()	Content Template
Update()	
Delete()	

Content Manager

Class Name :	Content Manager
Class Type :	Interaction
Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Aggregate Integrity : Guarded
Responsibility :	Collaborations :
Manage()	Content Type Content Subtype

Customer

Class Name :	Customer
Class Type :	Domain

Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Login()	

Customer Login

Class Name :	Customer Login
Class Type :	Interaction
Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Aggregate Integrity : Guarded
Responsibility :	Collaborations :
Login()	Customer Security Question Customer Subscription Manager

Customer Security Question

Class Name :	Customer Security Question
Class Type :	Interaction
Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Aggregate Integrity : Guarded
Responsibility :	Collaborations :
Insert()	Customer Login

Customer Subscription Manager

Class Name :	Customer Subscription Manager
Class Type :	Interaction
Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Aggregate Integrity : Guarded
Responsibility :	Collaborations :

Manage()	Customer Login Publishing Node
----------	-----------------------------------

Extension

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create() Update() Delete()	

Module

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create() Update() Delete()	Module Asset Type Association Module Association

Module Asset Type Association

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create()	Module

Update()	Asset Type
Delete()	

Module Association

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create()	Page
Update()	Module
Delete()	

Page

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create()	Module Association
Update()	Page Association
Delete()	

Page Association

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create()	Page
Update()	User Type

Delete()

Product

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create()	Product Approval
Update()	Product Content
Delete()	Product Display Product Manager Product Review

Product Approval

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create()	Product
Update()	
Delete()	

Product Content

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create()	Product

Update()	Product Content Flow
Delete()	Product Template
	Product Content Asset

Product Content Asset

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create()	Asset
Update()	Product Content
Delete()	

Product Content Flow

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create()	Product Content
Update()	
Delete()	

Product Display

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create()	Product

Update()	Sponsor
Delete()	Publisher
	Product Subscription

Product Template

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create() Update() Delete()	Product Content Content Template

Product Manager

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create() Update() Delete()	Product Content Type Content Subtype

Product Review

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :

Create()	Product
Update()	
Delete()	

Product Subscription

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create()	Product Display
Update()	Subscription
Delete()	

Publisher

Class Name :	Publisher
Class Type :	Interaction
Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Aggregate Integrity : Guarded
Responsibility :	Collaborations :
Create()	Publishing Node
Update()	Product Display
Delete()	

Publishing Node

Class Name :	Publishing Node
Class Type :	Domain
Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Aggregate Integrity : Guarded
Responsibility :	Collaborations :
Create()	Approve

Update()	Customer Subscription Manager
Delete()	Publishing Leaf
	Sponsor
	Publisher
	Review
	Sales Executive

Publishing Leaf

Class Name :	Publishing Leaf
Class Type :	Interaction
Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Aggregate Integrity : Guarded
Responsibility :	Collaborations :
Create() Update() Delete()	Publishing Node

Publishing Leaf Asset Manager

Class Name :	Publishing Leaf Asset Manager
Class Type :	Interaction
Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Aggregate Integrity : Guarded
Responsibility :	Collaborations :
Manage()	

Publishing Leaf Manager

Class Name :	Publishing Leaf Manager
Class Type :	Interaction
Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Aggregate Integrity : Guarded
Responsibility :	Collaborations :
Manage()	Content Type Content Subtype

Content Template

Salt

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create() Update() Delete()	User

Review

Class Name :	Review
Class Type :	Interaction
Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Aggregate Integrity : Guarded
Responsibility :	Collaborations :
Create() Update() Delete()	Publishing Node

Subscription Type

Class Name :	Subscription Type
Class Type :	Domain
Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create() Update() Delete()	Sales Executive

Sales Executive

Class Name :	Sales Executive
Class Type :	Interaction
Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Aggregate Integrity : Guarded
Responsibility :	Collaborations :
Create() Update() Delete()	Publishing Node Subscription Type

Sponsor

Class Name :	Sponsor
Class Type :	Domain
Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create() Update() Delete()	Publishing Node Product Display

Users Type

Class Name :	Users Type
Class Type :	Domain
Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create() Update() Delete()	User Page Association

User

Class Name :	User
Class Type :	Interaction
Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Aggregate Integrity : Guarded
Responsibility :	Collaborations :
Create()	Users Type
Update()	Security Question
Delete()	Salt

Login

Class Name :	Login
Class Type :	Interaction
Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Aggregate Integrity : Guarded
Responsibility :	Collaborations :
Login()	Authorized

Security Question

Class Name :	Security Question
Class Type :	Interaction
Class Characteristics :	Tangibility : Intangible Sequential : Concurrent Persistence : Temporary Inclusiveness : Aggregate Integrity : Guarded
Responsibility :	Collaborations :
Insert()	User

Subscription

Class Name :	Asset Type
Class Type :	Domain
Class Characteristics :	Tangibility : Tangible Sequential : Sequential Persistence : Temporary

	Inclusiveness : Stand Alone Integrity : Guarded
Responsibility :	Collaborations :
Create()	Product Subscription
Update()	
Delete()	

Chapter 4

Implementation

4.1 Login

4.1.1 Login Authentication Page

Login Authentication Page is Home page of the framework. It is responsible for authentication of users. The users can authenticate by using either email address or username. There is secured password defined by user. The main login authentication page will be display as following below.

The screenshot shows the login page for the MediaMatrix framework. At the top left is the MediaMatrix logo. To its right, the word "Welcome" is displayed. On the left side of the page is a large, dark gray placeholder for a user profile picture. Below this placeholder, the text "Hi, Guest" is visible. In the center of the page, the text "Please sign in" is displayed above two input fields: one for "Email address or Username" and one for "Password". A blue button at the bottom right contains the text "Sign me in" next to a small key icon.

Figure 4.1.1

4.1.2 Login Authentication Process

Login authentication process requires either email address or user name, and password which is defined by user in order to sign into the portal. The login authentication process will be display as following below.

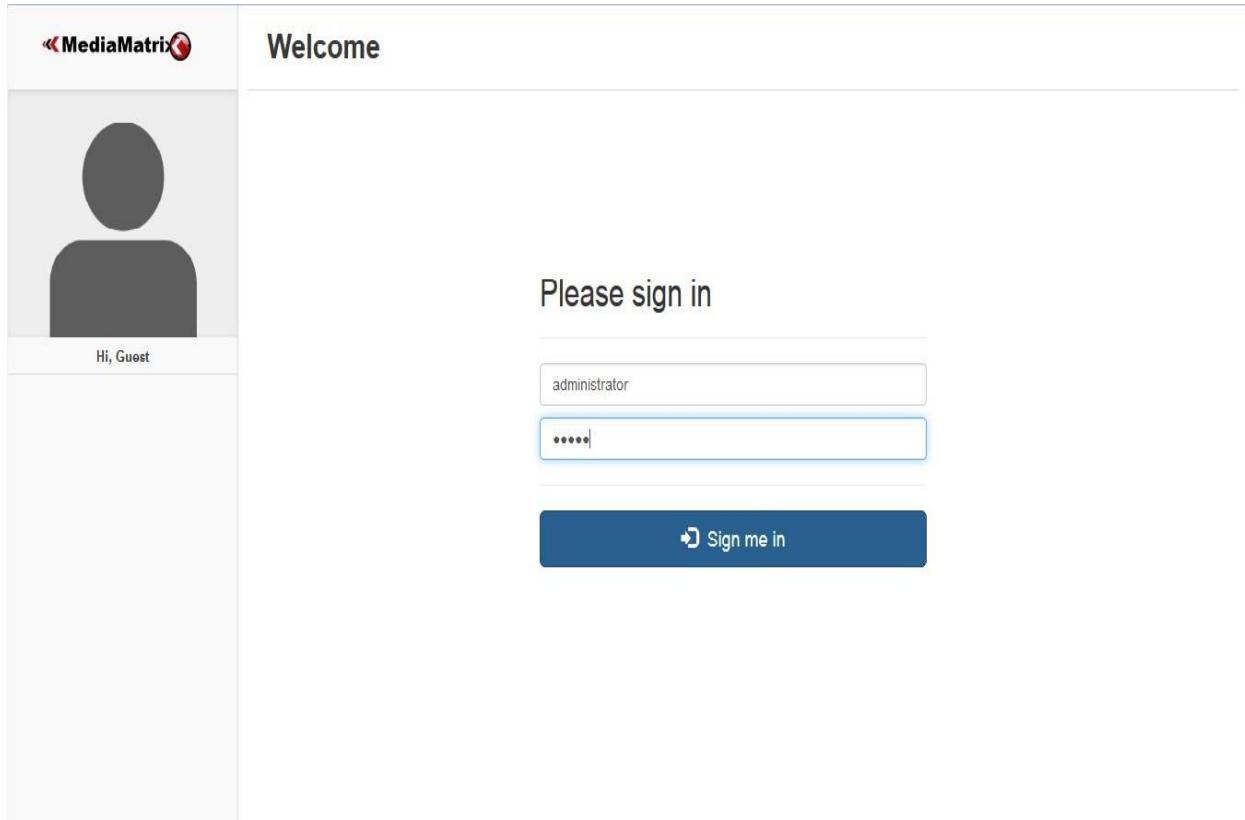


Figure 4.1.2

4.2 Database

The database is designed in MySQL using PHPmyAdmin. The database will be display as following below.

The screenshot shows the phpMyAdmin interface for the 'evolution' database. The left sidebar lists tables under the 'evolution' schema, including asset, asset_type, asset_type_extention_association, content_subtype, content_template, content_type, content_type_asset_type_association, extent, module, module_asset_type_association, module_association, page, page_association, product, product_approval, product_content, product_content_asset, product_content_flow, product_display, product_manager, product_review, product_subscription, product_template, publisher, sponsor, and subscription. The main panel displays a table of these 27 tables, showing columns for Action, Table, Rows, Type, Collation, Size, and Overhead. Most tables have 0 rows and are InnoDB type with latin1_swedish_ci collation, except for 'extent' which has ~2 rows and 'product' which has ~5 rows. The table structure is as follows:

Action	Table	Rows	Type	Collation	Size	Overhead
Browse Structure Search Insert Empty Drop	asset	~0	InnoDB	latin1_swedish_ci	48 KiB	-
Browse Structure Search Insert Empty Drop	asset_type	~7	InnoDB	latin1_swedish_ci	16 KiB	-
Browse Structure Search Insert Empty Drop	asset_type_extention_association	~13	InnoDB	latin1_swedish_ci	48 KiB	-
Browse Structure Search Insert Empty Drop	content_subtype	~0	InnoDB	latin1_swedish_ci	32 KiB	-
Browse Structure Search Insert Empty Drop	content_template	~0	InnoDB	latin1_swedish_ci	32 KiB	-
Browse Structure Search Insert Empty Drop	content_type	~0	InnoDB	latin1_swedish_ci	16 KiB	-
Browse Structure Search Insert Empty Drop	content_type_asset_type_association	~0	InnoDB	latin1_swedish_ci	48 KiB	-
Browse Structure Search Insert Empty Drop	extent	~2	InnoDB	latin1_swedish_ci	16 KiB	-
Browse Structure Search Insert Empty Drop	module	~1	InnoDB	latin1_swedish_ci	16 KiB	-
Browse Structure Search Insert Empty Drop	module_asset_type_association	~7	InnoDB	latin1_swedish_ci	48 KiB	-
Browse Structure Search Insert Empty Drop	module_association	~5	InnoDB	latin1_swedish_ci	48 KiB	-
Browse Structure Search Insert Empty Drop	page	~5	InnoDB	latin1_swedish_ci	16 KiB	-
Browse Structure Search Insert Empty Drop	page_association	~5	InnoDB	latin1_swedish_ci	48 KiB	-
Browse Structure Search Insert Empty Drop	product	~0	InnoDB	latin1_swedish_ci	16 KiB	-
Browse Structure Search Insert Empty Drop	product_approval	~0	InnoDB	latin1_swedish_ci	32 KiB	-
Browse Structure Search Insert Empty Drop	product_content	~0	InnoDB	latin1_swedish_ci	32 KiB	-
Browse Structure Search Insert Empty Drop	product_content_asset	~0	InnoDB	latin1_swedish_ci	48 KiB	-
Browse Structure Search Insert Empty Drop	product_content_flow	~0	InnoDB	latin1_swedish_ci	16 KiB	-
Browse Structure Search Insert Empty Drop	product_display	~0	InnoDB	latin1_swedish_ci	64 KiB	-
Browse Structure Search Insert Empty Drop	product_manager	~0	InnoDB	latin1_swedish_ci	48 KiB	-
Browse Structure Search Insert Empty Drop	product_review	~0	InnoDB	latin1_swedish_ci	32 KiB	-
Browse Structure Search Insert Empty Drop	product_subscription	~0	InnoDB	latin1_swedish_ci	32 KiB	-

Figure 4.2

4.3 Implementation

4.3.1 Change Password

Any type of user can change their password using this facility. The change password form is provided with certain form filling guidelines which helps in validation. By clicking on change password will update the content in database.

The screenshot shows a 'Change Password' form within a web application interface. The form fields are:

- Old Password:** Enter old password
- New Password:** Enter new password
- New Password Retype:** Retype new password

Below the form is a button labeled **+ Change Password**. Underneath the form, there is a section titled **Form filling guidelines** containing the following bullet points:

- **Old Password:** Allowed Values : 0-9, a-z, A-Z, White Spaces, Spacial Characters ; Maximum Length : 30
- **New Password :** Allowed Values : 0-9, a-z, A-Z, White Spaces, Spacial Characters ; Maximum Length : 30
- **New Password Retype:** Allowed Values : 0-9, a-z, A-Z, White Spaces, Spacial Characters ; Maximum Length : 30

The sidebar on the left includes links for 'Logout', 'Change Password', 'Administrator', 'Approver', 'Manager', 'new', 'New Page', 'Publisher', 'Reviewer', and 'Sales Executive'. The top right corner features a 'Discard' button.

Figure 4.3.1

4.3.2 User Type Management

Main Page

This feature is managing user types. As per shown in below image there are two types of users administrator and publisher are involved in system.

The screenshot shows the MediaMatrix User Type Management interface. On the left, there is a sidebar with a user icon and the greeting "Hi, Administrator". Below this are links for Logout, Change Password, and a section titled "Sites" containing links for Administrator, Approver, Manager, New Page, Publisher, Reviewer, and Sales Executive. At the bottom of the sidebar is a link for "User Type Mangement". The main content area has a header "User Type Mangement" and a breadcrumb "Home / USER TYPE MANAGEMENT". Below this is a toolbar with icons for search, refresh, and other actions. A table displays two user types:

NAME	STATUS			
Publisher	Enabled			
Administrator	Enabled			

Below the table are navigation buttons for Page, a page number indicator (1), and a total record count (Records 1 to 2 of 2). There is also an "Add" button.

Figure 4.3.2.1

Add User Type

New user type can be added by using add user type form as shown below. In order to add new user type requires adding details about name and description about user type and the status whether it would be enabled or disabled.

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with a user profile icon and the greeting "Hi, Administrator". Below this are links for Logout, Change Password, and various Site roles: Administrator, Approver, Manager, New Page, Publisher, Reviewer, and Sales Executive. At the bottom of the sidebar is a link to "User Type Mangement". The main content area has a header "User Type Mangement" and a breadcrumb "Home / USER TYPE MANAGEMENT / Add". The form contains four fields: "UNIQUE ID *" with value "fa2edb7b95c328f5c98c5f55a5b44971", "NAME *" with placeholder "NAME", "DESCRIPTION *" with placeholder "DESCRIPTION", and "STATUS *" with a dropdown menu showing "Enabled". A blue "Add" button is located at the bottom left of the form.

Figure 4.3.2.2

View User Type

User type can be viewed by using view feature as shown in below figure. View user type will display the details of user type that are name, description, date of creation and updating along with status.

The screenshot shows the MediaMatrix User Type Management interface. On the left is a sidebar with a user icon and the message "Hi, Administrator". Below this are links for Logout, Change Password, and a list of user roles: Administrator, Approver, Manager, New Page, Publisher, Reviewer, and Sales Executive. At the bottom of the sidebar is a link to "User Type Mangement". The main content area has a header "User Type Mangement" and a breadcrumb "Home / USER TYPE MANAGEMENT / View". Below this are buttons for Add, Edit, and Delete. A table displays the details of a user type named "Publisher". The table columns are: UNIQUE ID, NAME, DESCRIPTION, DATE OF CREATE, DATE OF UPDATE, and STATUS. The data is as follows:

	UNIQUE ID	1578ac2fff3e34468cfcc5fc66e00bf0
NAME	Publisher	
DESCRIPTION	publisher	
DATE OF CREATE	0000/00/00	
DATE OF UPDATE	0000/00/00	
STATUS	Enabled	

Figure 4.3.2.3

Edit User Type

Edit user type is used to edit the existing details of user type as shown in below figure.

The screenshot displays the MediaMatrix User Type Management interface. On the left, there is a sidebar with a user icon and the greeting "Hi, Administrator". Below this are links for Logout, Change Password, and various Site roles: Administrator, Approver, Manager, New Page, Publisher, Reviewer, and Sales Executive. At the bottom of the sidebar, the "User Type Mangement" link is highlighted. The main content area is titled "User Type Mangement" and shows the URL "Home / USER TYPE MANAGEMENT / Edit". It contains three input fields: "NAME *" with the value "Publisher", "DESCRIPTION *" with the value "publisher", and "STATUS *" with the value "Enabled". A blue "Edit" button is located at the bottom left of the form.

Figure 4.3.2.4

Delete User Type

Delete user type is used to delete user type as shown in below figure.

The screenshot shows the MediaMatrix User Type Management interface. On the left, there is a sidebar with a user icon and the message "Hi, Administrator". Below this are links for Logout, Change Password, and a list of sites: Administrator, Approver, Manager, New Page, Publisher, Reviewer, and Sales Executive. At the bottom of the sidebar is a link to User Type Management. The main content area has a header "User Type Mangement" and a breadcrumb "Home / USER TYPE MANAGEMENT / Delete". A table lists a single user type: "Publisher" with status "Enabled". A blue "Delete" button is located next to the table. The left sidebar also lists various management modules: Content Type Management, Customer Management, Extension & Asset Type Association, Extension Management, Module Management, Page & Module Association, Page & User Type Association, Page Management, Product Content Management, Product Management, Product Staging Management, Product Subscription Management, Product Template Management, Publisher Management, Sponsor Management, Subscription Management, and User Management.

NAME	STATUS
Publisher	Enabled

Figure 4.3.2.5

4.3.3 User Management

Main

User Management is responsible for managing users. It manages details about users such as user type, email address, name and status as shown in below figure.

The screenshot shows the MediaMatrix User Management interface. On the left is a sidebar with a user icon and the greeting "Hi, Administrator". Below this are links for Logout, Change Password, and various Site roles: Administrator, Approver, Manager, New Page, Publisher, Reviewer, and Sales Executive. The main content area has a navigation bar with "User Management" selected. A table lists two users:

USER TYPE	EMAIL ADDRESS	FIRST NAME	LAST NAME	STATUS	
Publisher	publisher@gmail.com	xyz	xyz	Enabled	
Administrator	ayer.siddharth@gmail.com	Siddharth	Ayer	Enabled	

Below the table are buttons for Page navigation (1 of 1), Add, and a message indicating Records 1 to 2 of 2.

Figure 4.3.3.1

Add User Management

User can be adding by using below form.

The screenshot shows the MediaMatrix user interface. On the left is a sidebar with a user profile icon and the greeting "Hi, Administrator". Below this are links for Logout, Change Password, and a list of Site roles: Administrator, Approver, Manager, New Page, Publisher, Reviewer, and Sales Executive. The "User Management" link in the sidebar is highlighted with a blue bar. The main content area is titled "User Management" and shows the "Home / USER MANAGEMENT / Add" path. The form contains the following fields:

UNIQUE ID *	1b225582d2471e9691f3604362b7dc
USER TYPE *	Please Select
EMAIL ADDRESS *	EMAIL ADDRESS
PASSWORD *	(empty field)
FIRST NAME *	FIRST NAME
LAST NAME *	LAST NAME
AUTHORISED *	Not Authorised
SECRET QUESTION *	SECRET QUESTION
SECRET ANSWER *	(empty field)
STATUS *	Enabled

At the bottom of the form is a blue "Add" button.

Figure 4.3.3.2

View User Management

User can be view through view facility as shown in below figure.

The screenshot shows the MediaMatrix User Management interface. On the left is a sidebar with a user icon and the greeting "Hi, Administrator". Below this are links for Logout, Change Password, and various Site roles: Administrator, Approver, Manager, New Page, Publisher, Reviewer, and Sales Executive. The "User Management" link is highlighted with a blue bar at the bottom of the sidebar. The main content area has a header "User Management" and a breadcrumb "Home / USER MANAGEMENT / View". It features a toolbar with icons for Add, Edit, Delete, and other actions. A table displays user details:

	Value
UNIQUE ID	8c7fa5a5ef78618fc67a3631209a5b78
USER TYPE	Publisher
EMAIL ADDRESS	publisher@gmail.com
PASSWORD	*****
FIRST NAME	xyz
LAST NAME	xyz
DATE OF CREATE	0000/00/00
DATE OF UPDATE	0000/00/00
AUTHORISED	Authorised
SECRET QUESTION	vv
SECRET ANSWER	*****
STATUS	Enabled

Figure 4.3.3.3

Edit User Management

User details can be edit by using edit form as shown below.

The screenshot shows the MediaMatrix User Management interface. On the left is a sidebar with a user profile icon and the greeting "Hi, Administrator". Below this are links for Logout, Change Password, and various Site roles: Administrator, Approver, Manager, New Page, Publisher, Reviewer, and Sales Executive. The "User Management" link is highlighted with a blue underline. The main content area is titled "User Management" and shows the "Edit" form for a user. The form fields are:

USER TYPE *	Publisher
EMAIL ADDRESS *	publisher@gmail.com
PASSWORD *	***
FIRST NAME *	xyz
LAST NAME *	xyz
AUTHORISED *	Authorised
SECRET QUESTION *	vv
SECRET ANSWER *	**
STATUS *	Enabled

At the bottom of the form is a blue "Edit" button.

Figure 4.3.3.4

4.3.4 Page Management

Main

Page Management is used for managing page name, URL and status details as shown in below figure.

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with user navigation and site management links. The main area is titled "Page Management" and displays a table of pages with columns for NAME, URL, and STATUS. Each row includes edit and delete icons. The table shows seven records, with the last one being the current selection.

NAME	URL	STATUS			
New Page	new.php	Enabled			
Approver	approver.php	Enabled			
Publisher	publisher.php	Enabled			
Manager	manager.php	Enabled			
Sales Executive	salesExecutive.php	Enabled			
Reviewer	reviewer.php	Enabled			
Administrator	administrator.php	Enabled			

Figure 4.3.4.1

Add Page Management

Page can be added through add page management. This requires details of name, description, URL and status for page as shown in below figure.

The screenshot shows the MediaMatrix administration interface. On the left is a sidebar with user navigation and site roles. The main area is titled 'Page Management' and shows a form for adding a new page. The form fields are:

UNIQUE ID *	eeef85f37aedee98b11456e9e579335
NAME *	new
DESCRIPTION *	new.php
URL *	new.php
STATUS *	Enabled

A blue 'Add' button is at the bottom left of the form.

Figure 4.3.4.2

As shown in figure 4.3.4.3 below shows newly added page named new.

The screenshot displays the MediaMatrix administration interface. On the left, a sidebar menu lists various management modules. The 'Page Management' module is currently selected, indicated by a bolded title and a green horizontal bar. The main content area is titled 'Page Management' and shows a table of existing pages. A new page, 'new', has been recently added and is highlighted with a yellow background. The table columns are 'NAME', 'URL', and 'STATUS'. The 'new' page entry is as follows:

NAME	URL	STATUS
New Page	new.php	Enabled
Approver	approver.php	Enabled
Publisher	publisher.php	Enabled
Manager	manager.php	Enabled
Sales Executive	salesExecutive.php	Enabled
Reviewer	reviewer.php	Enabled
Administrator	administrator.php	Enabled
new	new.php	Enabled

Below the table, there are navigation buttons for 'Page' (back, forward, search, etc.) and a message indicating 'Records 1 to 8 of 8'. An 'Add' button is located at the bottom of the table area.

Figure 4.3.4.3

After refreshing site newly created page named new will be display in left side of the screen as shown in below figure.

The screenshot shows the MediaMatrix application interface. On the left, there is a vertical navigation menu with the following items:

- Asset Management
- Asset Selection for product
- Asset Type & Module Association
- Asset Type Management
- Content Subtype Management
- Content Template Management
- Content Type & Asset Type Association
- Content Type Management
- Customer Management
- Extention & Asset Type Association
- Extention Management
- Module Management
- Page & Module Association
- Page & User Type Association
- Page Management** (selected)
- Product Content Management
- Product Management

Below the navigation menu, there is a message "Hi, Administrator". The user is currently logged in as "Administrator".

On the right, the "Page Management" section is displayed. It shows a list of pages with the following data:

NAME	URL	STATUS			
New Page	new.php	Enabled			
Approver	approver.php	Enabled			
Publisher	publisher.php	Enabled			
Manager	manager.php	Enabled			
Sales Executive	salesExecutive.php	Enabled			
Reviewer	reviewer.php	Enabled			
Administrator	administrator.php	Enabled			
new	new.php	Enabled			

Below the table, there are navigation buttons for "Page", "1", "of 1", "Records 1 to 8 of 8", and an "Add" button.

Figure 4.3.4.4

View Page Management

Page can be viewed by using view page management.

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with a user icon and the greeting "Hi, Administrator". Below this are links for Logout, Change Password, and various Site roles: Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. The "Page Management" link is highlighted with a black bar. The main content area is titled "Page Management" and shows the URL "Home / PAGE MANAGEMENT / View". It features a toolbar with icons for back, forward, search, and refresh, and buttons for Add, Edit, and Delete. A table displays the details of a single page entry:

UNIQUE ID	08f2db81e33e83e3a2521051a41c0f16
NAME	New Page
DESCRIPTION	new page
URL	new.php
DATE OF CREATE	0000/00/00 00:00:00
DATE OF UPDATE	0000/00/00 00:00:00
STATUS	Enabled

Figure 4.3.4.5

4.3.5 Page and User Type Association

Main Page

Page and user type association is an important feature. It is used to control accessing dashboard. Administrator can access dashboard of all user types but users should not have access to admin dashboard such kind of relationship can be set by using page and user type association management.

The screenshot shows the MediaMatrix application interface. On the left is the main navigation menu with various links like Asset Management, Content Management, and Page Management. A sidebar on the left displays a user profile icon and a greeting message: "Hi, Administrator". The right side of the screen shows a detailed view of the "Page & User Type Association" feature. This view includes a breadcrumb trail ("Home / PAGE ASSOCIATION"), a toolbar with five icons, and a table listing associations between user roles and page types. The table has columns for Role, Page Type, and Status. Each row includes edit and delete icons. At the bottom of the table, there is a pagination control showing "Page 1 of 1" and "Records 1 to 16 of 16".

		STATUS		
Publisher	Approver	Enabled		
Publisher	Publisher	Enabled		
Publisher	Manager	Enabled		
Publisher	Sales Executive	Enabled		
Publisher	Reviewer	Enabled		
Publisher	Administrator	Enabled		
Publisher	New Page	Enabled		
Publisher	new	Enabled		
Administrator	Administrator	Enabled		
Administrator	Manager	Enabled		
Administrator	Publisher	Enabled		
Administrator	Approver	Enabled		
Administrator	Reviewer	Enabled		
Administrator	Sales Executive	Enabled		
Administrator	New Page	Enabled		
Administrator	new	Enabled		

Figure 4.3.5.1

View Page and User Type Association

Page and User type association can be viewed as shown in below figure.

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with a user icon and the greeting "Hi, Administrator". Below it are links for Logout, Change Password, and various Site roles: Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. The "Page & User Type Association" link is highlighted with a blue bar at the bottom of the sidebar. The main content area has a header "Page & User Type Association" and a breadcrumb "Home / PAGE ASSOCIATION / View". It includes a toolbar with icons for back, forward, search, and refresh, and an "Edit" button. A table displays the following data:

1578ac2fff3e34468cfcc5fc66e00bf0	
e29f059e10d1ec5739c34a6fe9763f58	
Publisher	
Administrator	
STATUS	Enabled

The URL in the browser's address bar is "localhost/FICGP/content/modules/page_association/page_associationedit.php?id=1578ac2fff3e34468cfcc5fc66e00bf0&id1=e29f059e10d1ec5739c34a6fe9763f58".

Figure 4.3.5.2

Edit Page and User Type Association

Edit page and user type association is used to control enabled and disabled features in order to provide restriction for accessing dashboards.

The screenshot shows the MediaMatrix application interface. On the left is a vertical navigation menu with a user icon and the text "Hi, Administrator". The menu includes links for Logout, Change Password, and various Site roles: Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. Below these are links for Asset Management, Asset Selection for product, Asset Type & Module Association, Asset Type Management, Content Subtype Management, Content Template Management, Content Type & Asset Type Association, Content Type Management, Customer Management, Extention & Asset Type Association, Extention Management, Module Management, Page & Module Association, Page & User Type Association (which is highlighted in blue), Page Management, Product Content Management, and Product Management. The main content area is titled "Page & User Type Association" and shows a breadcrumb path: Home / PAGE ASSOCIATION / Edit. It contains a dropdown menu for "STATUS *". The options are "Enabled" (selected), "Please Select", "Disabled" (highlighted in blue), and "Enabled". A blue "Edit" button is located at the bottom left of this section.

Figure 4.3.5.3

Enabled / Disabled

After performing disabled edit setting to publisher for accessing admin dashboard shown in below figure.

The screenshot shows the MediaMatrix admin interface. On the left is a sidebar with user navigation and system links. The main area displays a table titled 'Page & User Type Association'.

Sidebar Navigation:

- MediaMatrix logo
- User icon: Hi, Administrator
- Logout link
- Change Password link
- Sites** section:
 - Administrator
 - Approver
 - Manager
 - new
 - New Page
 - Publisher
 - Reviewer
 - Sales Executive

Main Content Area:

Page & User Type Association

		STATUS		
Publisher	Approver	Enabled		
Publisher	Publisher	Enabled		
Publisher	Manager	Enabled		
Publisher	Sales Executive	Enabled		
Publisher	Reviewer	Enabled		
Publisher	Administrator	Disabled		
Publisher	New Page	Enabled		
Publisher	new	Enabled		
Administrator	Administrator	Enabled		
Administrator	Manager	Enabled		
Administrator	Publisher	Enabled		
Administrator	Approver	Enabled		
Administrator	Reviewer	Enabled		
Administrator	Sales Executive	Enabled		
Administrator	New Page	Enabled		
Administrator	new	Enabled		

Page: 1 of 1 Records 1 to 16 of 16

Figure 4.3.5.6

4.3.6 Module Management

Main

The middle column is said to be modules for site. Module management can be done by using this feature as shown in below figure.

The screenshot shows the MediaMatrix CMS interface. On the left is the main navigation bar with links for Logout, Change Password, and various Site roles: Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. The 'Administrator' link is currently selected. The middle column contains a list of modules, with 'Module Management' being the active item. The right side is the 'Module Management' screen, which lists all available modules with their names, URLs, and status (Enabled). Each row has edit and delete icons.

NAME	URL	STATUS	Actions
Extention & Asset Type Association	extention_association	Enabled	
Publisher Manamgement	publisher	Enabled	
Asset Management	asset	Enabled	
Content Subtype Management	content_subtype	Enabled	
Page & User Type Association	page_association	Enabled	
Customer Management	customer	Enabled	
Product Subscription Management	product_subscription	Enabled	
Asset Type Management	asset_type	Enabled	
Product Content Management	product_content	Enabled	
Content Template Management	content_template	Enabled	
Page Management	page	Enabled	
Product Management	product	Enabled	
Module Management	module	Enabled	
Subscription Management	subscription	Enabled	
User Management	user	Enabled	
Page & Module Association	module_association	Enabled	
Asset Selection for product	asset_selection	Enabled	

Figure 4.3.6.1

Add Module

Add module is used to add new module in site. This requires details such as name, description, URL and status to be entered as shown in below figure.

The screenshot shows the MediaMatrix application interface. On the left is a vertical navigation menu with the following items:

- Logout
- Change Password
- Sites
 - Administrator
 - Approver
 - Manager
 - new
 - New Page
 - Publisher
 - Reviewer
 - Sales Executive

In the center, there is a sidebar with a list of management modules:

- Asset Management
- Asset Selection for product
- Asset Type & Module Association
- Asset Type Management
- Content Subtype Management
- Content Template Management
- Content Type & Asset Type Association
- Content Type Management
- Customer Management
- Extention & Asset Type Association
- Extention Management
- Module Management** (selected)
- Page & Module Association
- Page & User Type Association
- Page Management
- Product Content Management
- Product Management

To the right of the sidebar is the "Module Management" configuration form:

Module Management

Home / MODULE MANAGEMENT / Add

UNIQUE ID *	a99a58a3918ca797925dfa7a657b6f
NAME *	new module
DESCRIPTION *	new module
URL *	new_module.php
STATUS *	Enabled

Add

Figure 4.3.6.2

Display New Added Module

The newly added module named new module display as shown below.

The screenshot shows the MediaMatrix application interface. On the left is a vertical navigation bar with a user icon and the text "Hi, Administrator". Below this are links for Logout, Change Password, and various Site roles: Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. The main content area has a sidebar with a tree view of management modules. Under "Module Management", the node "new module" is expanded, revealing its sub-nodes: Page & Module Association, Page & User Type Association, Page Management, and Product Content Management. To the right is a table titled "Module Management" showing a list of modules with columns for NAME, URL, and STATUS. The "new module" entry is listed at the bottom of the table, with its URL as "new_module.php" and STATUS as "Enabled".

NAME	URL	STATUS			
Extention & Asset Type Association	extention_association	Enabled			
Publisher Manamgement	publisher	Enabled			
Asset Management	asset	Enabled			
Content Subtype Management	content_subtype	Enabled			
Page & User Type Association	page_association	Enabled			
Customer Management	customer	Enabled			
Product Subscription Management	product_subscription	Enabled			
Asset Type Management	asset_type	Enabled			
Product Content Management	product_content	Enabled			
Content Template Management	content_template	Enabled			
Page Management	page	Enabled			
Product Management	product	Enabled			
Module Management	module	Enabled			
Subscription Management	subscription	Enabled			
User Management	user	Enabled			
new module	new_module.php	Enabled			
Page & Module Association	module_association	Enabled			

Figure 4.3.6.3

4.3.7 Page and Module Association

Main

This is important feature of site which controls the page and module association. Admin will have control on all modules. Manager can have some of modules. Publisher can access only those modules which require publishing contents.

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with user navigation links: Hi, Administrator, Logout, Change Password, Sites, Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. Below these is a section titled Page & Module Association, which is currently selected. The main content area is titled "Page & Module Association" and contains a table with two columns: "Page" and "Module". The table lists various pages and their associated modules, with checkboxes for enabling or disabling access. A yellow highlight is on the row for "User Type Mangement".

Page	Module	Enabled	Action
New Page	Product Management	Enabled	
New Page	Module Management	Enabled	
New Page	Subscription Management	Enabled	
New Page	User Management	Enabled	
New Page	Page & Module Association	Enabled	
New Page	Asset Selection for product	Enabled	
New Page	Content Type & Asset Type Association	Enabled	
New Page	Product Staging Management	Enabled	
New Page	Product Template Management	Enabled	
New Page	Asset Type & Module Association	Enabled	
New Page	Sponser Management	Enabled	
New Page	Extention Management	Enabled	
New Page	Content Type Management	Enabled	
New Page	User Type Mangement	Enabled	
New Page	Customer Management	Enabled	
Approver	Extention & Asset Type Association	Disabled	
Approver	Publisher Managment	Disabled	
Approver	Asset Management	Disabled	
Approver	Content Subtype Management	Disabled	
Approver	Page & User Type Association	Disabled	
Approver	Product Subscription Management	Disabled	
Approver	Asset Type Management	Disabled	

Figure 4.3.7.1

4.3.8 Asset Type Management

Main

Asset type management is used to manage asset types as shown in below figure.

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with user navigation and site roles. The main area is titled "Asset Type Management". It displays a table of asset types with columns for NAME, SIZE, and STATUS. Each row includes edit and delete icons. A navigation bar at the bottom shows "Page 1 of 1" and "Records 1 to 14 of 14".

NAME	SIZE	STATUS			
Publisher Logo	20	Enabled			
Product Display Sample	20	Enabled			
Content Type Logo	20	Enabled			
Service Agreement	20	Enabled			
Content Template Logo	20	Enabled			
Audio	20	Enabled			
Product Content Sample	20	Enabled			
Product Display Title	20	Enabled			
Content Template Sample	20	Enabled			
Content Subtype Logo	20	Enabled			
Image	20	Enabled			
Sponser Logo	20	Enabled			
Document	20	Enabled			
Video	20	Enabled			

Figure 4.3.8.1

View / Add / Edit / Display

Asset type management also provided with view, add, delete and edit facility as shown in below figure.

The screenshot shows the MediaMatrix application interface. On the left is a vertical navigation menu with sections like 'Sites' and 'Administrator'. The main content area has a title 'Asset Type Management' and a sub-section 'ASSET TYPE MANAGEMENT / View'. Below this are buttons for 'Add', 'Edit', and 'Delete'. A table displays asset details:

UNIQUE ID	027bb5ded60891c90522666e981895ca
NAME	Publisher Logo
DESCRIPTION	Publisher Logo
SIZE	20
DATE OF CREATE	2015/04/09
DATE OF UPDATE	2015/04/09
STATUS	Enabled

Figure 4.3.8.2

4.3.9 Asset Management

Main

Asset can be managed by using asset management. The actual asset is to be adding here.

The screenshot shows the MediaMatrix Asset Management interface. On the left is a sidebar with user navigation and site management options. The main area has a navigation bar with icons for Home, Asset Management, Content, Pages, and Modules. Below the navigation is a table listing various assets with columns for Asset Type, Name, Aspect Ratio X, Aspect Ratio Y, Extension, Size, and Status.

ASSET TYPE	NAME	ASPECT RATIO X	ASPECT RATIO Y	EXTENTION	SIZE	STATUS
Content Template Sample	Big Image and Text	1	1	png	356250	Enabled
Image	Food Item-1	1	1	png	91023	Enabled
Content Subtype Logo	CookBook Logo	1	1	png	319850	Enabled
Content Type Logo	Book	1	1	png	4084	Enabled
Content Template Logo	Big Image and Text	1	1	png	2597	Enabled
Image	Sample Image	1	1	png	179169	Enabled
Document	Big Image and Text	1	1	png	574	Enabled
Product Content Sample	Big Image and Text	1	1	png	356250	Enabled

Figure 4.3.9.1

View Asset

Asset can be viewed by using view asset feature as shown in below figure.

The screenshot displays the MediaMatrix Asset Management application. On the left is a sidebar with user navigation and site management options. The main area shows a list of asset management modules and a detailed view of a specific asset.

Sidebar Navigation:

- MediaMatrix logo
- User icon: Hi, Administrator
- Logout
- Change Password
- Sites**
 - Administrator
 - Approver
 - Manager
 - new
 - New Page
 - Publisher
 - Reviewer
 - Sales Executive

Main Content Area:

Asset Management Modules:

- Asset Selection for product
- Asset Type & Module Association
- Asset Type Management
- Content Subtype Management
- Content Template Management
- Content Type & Asset Type Association
- Content Type Management
- Customer Management
- Extention & Asset Type Association
- Extention Management
- Module Management
- Page & Module Association
- Page & User Type Association
- Page Management
- Product Content Management
- Product Management

Asset Management View:

Asset Management

Home / ASSET MANAGEMENT / View

Add Edit Delete

UNIQUE ID	7f63403480039f3e1a4b1ab4d9a64910
ASSET TYPE	Content Type Logo
NAME	Book
DESCRIPTION	Book Icon
ASPECT RATIO X	1
ASPECT RATIO Y	1
EXTENTION	png
SIZE	4084
DATE OF CREATE	0000/00/00 00:00:00
DATE OF UPDATE	0000/00/00 00:00:00
STATUS	Enabled
FILE uploaded	book.png

Figure 4.3.9.2

Add Asset

Add asset is used to adding new asset as shown in below figure.

The screenshot displays the MediaMatrix application interface. On the left, there is a sidebar with a user profile icon and the greeting "Hi, Administrator". Below this are links for "Logout", "Change Password", and a "Sites" section containing links for "Administrator", "Approver", "Manager", "new", "New Page", "Publisher", "Reviewer", and "Sales Executive". The main content area has a header "Asset Management" and a sub-header "Asset Selection for product". To the right, a detailed "Asset Management" form is shown with the following fields:

Asset Management	
UNIQUE ID *	eb95a34d596f0450265aa243979ae4
ASSET TYPE *	Please Select
NAME *	NAME
DESCRIPTION *	DESCRIPTION
ASPECT RATIO X *	ASPECT RATIO X
ASPECT RATIO Y *	ASPECT RATIO Y
EXTENTION *	Please Select
SIZE *	SIZE
STATUS *	Enabled
FILE uploaded	Choose...

Figure 4.3.9.3

This shows that assets are derived from asset type in below figure.

The screenshot displays two views of the MediaMatrix Asset Management system. On the left is a sidebar menu with user navigation options like Logout, Change Password, and various Site roles (Administrator, Approver, Manager, etc.). The main area shows a list of management modules. On the right, a detailed form for creating a new asset is shown. The form includes fields for Unique ID (auto-filled), Asset Type (set to 'Please Select'), Name (dropdown menu listing options like Publisher Logo, Product Display Sample, etc.), Description, Aspect Ratio X and Y, Extension, Size, Status (Enabled), and File Upload. A dropdown menu for Asset Type lists items such as Publisher Logo, Product Display Sample, Content Type Logo, Service Agreement, Content Template Logo, Audio, Product Content Sample, Product Display Title, Content Template Sample, Content Subtype Logo, Image, Sponsor Logo, Document, and Video.

Figure 4.3.9.4

4.3.10 Asset Type and Module Association

Main

Asset type and module association is important feature of site. Restriction for asset on module can be put by using this association.

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with a user icon and the text "Hi, Administrator". Below this are links for Logout, Change Password, and various user roles: Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. The main content area has a title "Asset Type & Module Association" and a breadcrumb "Home / Asset Type & Module Association". Below this is a table titled "Asset Type & Module Association" with columns for STATUS, ASSET NAME, and MODULE NAME. The table lists 20 rows, each with a status of "Enabled" and a "Publisher Logo" asset name. The module names include Module Management, Asset Management, Asset Type Management, Asset Type & Module Association, Content Subtype Management, Content Template Management, Content Type Management, Content Type & Asset Type Association, Extention Management, Extention & Asset Type Association, Page Management, Page & Module Association, Product Management, Publisher Managment, Sponser Management, Subscription Management, and User Management. Each row has edit and delete icons.

STATUS	ASSET NAME	MODULE NAME		
Enabled	Publisher Logo	Module Management		
Enabled	Publisher Logo	Asset Management		
Enabled	Publisher Logo	Asset Type Management		
Enabled	Publisher Logo	Asset Type & Module Association		
Enabled	Publisher Logo	Content Subtype Management		
Enabled	Publisher Logo	Content Template Management		
Enabled	Publisher Logo	Content Type Management		
Enabled	Publisher Logo	Content Type & Asset Type Association		
Enabled	Publisher Logo	Extention Management		
Enabled	Publisher Logo	Extention & Asset Type Association		
Enabled	Publisher Logo	Page Management		
Enabled	Publisher Logo	Page & Module Association		
Enabled	Publisher Logo	Product Management		
Enabled	Publisher Logo	Publisher Managment		
Enabled	Publisher Logo	Sponser Management		
Enabled	Publisher Logo	Subscription Management		
Enabled	Publisher Logo	User Management		

Figure 4.3.10.1

View / Edit

Asset type and module association can be viewed and edit as shown in below figure.

The screenshot shows a web-based application interface for managing asset types and module associations. On the left is a sidebar with user navigation and site management options. The main area is titled 'Asset Type & Module Association' and displays a table of associations with an 'Edit' button.

Sidebar Navigation:

- MediaMatrix
- Hi, Administrator
- Logout
- Change Password
- Sites**
 - Administrator
 - Approver
 - Manager
 - new
 - New Page
 - Publisher
 - Reviewer
 - Sales Executive

Main Content Area:

Asset Type & Module Association

Home / Asset Type & Module Association / View

Edit

	STATUS	Enabled
ASSET NAME	Publisher Logo	
MODULE NAME	Module Management	
ASSET ID	027bb5ded60891c90522666e981895ca	
MODULE ID	87d3684a6d577888e2d5ae6fbac45ffb	

Figure 4.3.10.2

4.3.11 Extension Management

Main

Extension can be managed by using extension management as shown in below figure.

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with a user icon and the greeting "Hi, Administrator". Below this are links for Logout, Change Password, and a Sites section containing Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. The main content area has a navigation menu on the left with items like Asset Management, Asset Selection for product, Asset Type & Module Association, Asset Type Management, Content Subtype Management, Content Template Management, Content Type & Asset Type Association, Content Type Management, Customer Management, Extention & Asset Type Association, and Extention Management. The Extention Management item is highlighted with a blue bar. To the right is a grid titled "Extention Management" showing one record: NAME: png, PATTERN: .png, PROGRAMMING NAME: image/png, STATUS: Enabled. There are buttons for Add, Edit, and Delete at the bottom right of the grid.

NAME	PATTERN	PROGRAMMING NAME	STATUS
png	.png	image/png	Enabled

Figure 4.3.11.1

View Extension

View feature to view extension details as shown in below figure.

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with user navigation and site management options. The main area is titled 'Extention Management' and displays a table of extension details.

Sidebar Navigation:

- Logout
- Change Password
- Sites**
 - Administrator
 - Approver
 - Manager
 - new
 - New Page
 - Publisher
 - Reviewer
 - Sales Executive

Main Content Area:

Extention Management

	Value
UNIQUE ID	28ef3251b4a22a253e213cb52bb07a76
NAME	png
PATTERN	.png
PROGRAMMING NAME	image/png
STATUS	Enabled

Figure 4.3.11.2

Add Extension

Add extension is used to add new extension. This requires details such as name, pattern, programming name and status as shown in below figure.

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with user information (Hi, Administrator) and navigation links for Logout, Change Password, Sites, and various roles like Administrator, Approver, Manager, and Reviewer. The main content area has a breadcrumb path: Home / EXTENTION MANAGEMENT / Add. It displays a form for adding an extension:

UNIQUE ID *	89c1d3fd01f7a990cd67f62177bd999
NAME *	Video
PATTERN *	.mp4
PROGRAMMING NAME *	Video/mp4
STATUS *	Enabled

At the bottom left of the form is a blue 'Add' button.

Figure 4.3.11.3

Display Added Extension

Display newly added extension named Video of pattern .mp4 as shown in below figure.

The screenshot shows the MediaMatrix software interface. On the left is a sidebar with a user icon and the text "Hi, Administrator". Below this are links for Logout, Change Password, and various Site roles: Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. The main content area has a navigation tree on the left with items like Asset Management, Asset Selection for product, Asset Type & Module Association, Asset Type Management, Content Subtype Management, Content Template Management, Content Type & Asset Type Association, Content Type Management, Customer Management, Extention & Asset Type Association, and Extention Management. The Extention Management item is selected and highlighted in blue. To the right is a grid titled "Extention Management" with the following data:

NAME	PATTERN	PROGRAMMING NAME	STATUS	Actions
png	.png	image/png	Enabled	
Video	.mp4	Video/mp4	Enabled	

Below the grid are buttons for Page navigation (Back, Forward, Home), a record count (1 of 1), and a link to Add a new entry.

Figure 4.3.11.4

4.3.12 Extension and Asset Type Association

Main

Extension an asset type association is important feature of site. This controls the asset associated with extensions. For images extension .mp4, .mp3 etc are restricted that can be control by using feature as shown in below figure.

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with a user icon and the text "Hi, Administrator". Below this are links for Logout, Change Password, and various Site roles: Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. The "Extention & Asset Type Association" link is highlighted with a blue underline. The main content area has a header "Extention & Asset Type Association" and a breadcrumb "Home / Asset Type & Extention Association". Below this is a toolbar with icons for search, refresh, and other operations. A table lists asset types and their extensions. The table has columns for STATUS, ASSET TYPE NAME, EXTENTION NAME, and three action icons (edit, delete, preview). The data in the table is as follows:

STATUS	ASSET TYPE NAME	EXTENTION NAME	Action Icons
Enabled	Publisher Logo	png	
Enabled	Product Display Sample	png	
Enabled	Content Type Logo	png	
Enabled	Service Agreement	png	
Enabled	Content Template Logo	png	
Enabled	Product Content Sample	png	
Enabled	Product Display Title	png	
Enabled	Content Template Sample	png	
Enabled	Content Subtype Logo	png	
Enabled	Sponsorer Logo	png	
Enabled	Image	png	
Enabled	Document	png	
Enabled	Audio	png	
Enabled	Video	png	
Enabled	Publisher Logo	Video	
Enabled	Product Display Sample	Video	
Enabled	Content Type Logo	Video	

Figure 4.3.12.1

View Extension and Asset Type Association

Extension and Asset type association can be viewed as shown in below figure.

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with a user icon and the greeting "Hi, Administrator". Below this are links for Logout, Change Password, and various Site roles: Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. The main content area has a title "Extention & Asset Type Association" and a breadcrumb navigation path: Home / Asset Type & Extention Association / View. There are five small icons above an "Edit" button. To the right is a table with the following data:

Extention & Asset Type Association	
ASSET TYPE ID	027bb5ded60891c90522666e981895ca
EXTETION ID	fd36254fbd7805dc5b562355819e26c6
STATUS	Enabled
ASSET TYPE NAME	Publisher Logo
EXTENTION NAME	Video

Figure 4.3.12.2

4.3.13 Content Type Management

Main

Content Type Management is used to manage contents as shown in below figure.

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with a user icon and the message "Hi, Administrator". Below this are links for Logout, Change Password, and a list of Site roles: Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. The main content area has a navigation menu on the left with items like Asset Type Management, Content Subtype Management, Content Template Management, Content Type & Asset Type Association, Content Type Management (which is selected and highlighted in blue), Customer Management, Extention & Asset Type Association, Extention Management, Module Management, Page & Module Association, Page & User Type Association, Page Management, Product Content Management, Product Management, Product Staging Management, Product Subscription Management, and Product Template Mananement. To the right is a table titled "Content Type Management" showing one record: Book, Book, Enabled. There are buttons for Add, Edit, and Delete. The URL in the browser bar is "Home / CONTENT TYPE MANAGEMENT".

NAME	LOGO	STATUS			
Book	Book	Enabled			

Page: 1 of 1 Records 1 to 1 of 1
Add

Figure 4.3.13.1

Add Content Type

Add Content type is used to add new content as shown in below figure.

The screenshot shows the MediaMatrix Content Type Management interface. On the left is a sidebar with user navigation and site roles. The main area is titled 'Content Type Management' and shows an 'Add' form with fields for Unique ID, Name, Description, Logo, and Status. The 'Status' dropdown is currently set to 'Please Select'.

MediaMatrix

Hi, Administrator

Logout

Change Password

Sites

Administrator

Approver

Manager

new

New Page

Publisher

Reviewer

Sales Executive

Asset Management

Asset Selection for product

Asset Type & Module Association

Asset Type Management

Content Subtype Management

Content Template Management

Content Type & Asset Type Association

Content Type Management

Customer Management

Extention & Asset Type Association

Extention Management

Module Management

Page & Module Association

Page & User Type Association

Page Management

Product Content Management

Product Management

Content Type Management

Home / CONTENT TYPE MANAGEMENT / Add

UNIQUE ID *	efe979f3b1c0068869ee121a19cc24f
NAME *	<input type="text"/>
DESCRIPTION *	<input type="text"/>
LOGO *	Please Select
STATUS *	Please Select Book

Add

Figure 4.3.13.2

4.3.14 Content Subtype Management

Main

Content Subtype is derived from content type as shown in below figure. For example if content type is book then content subtype can be cook book, education book, general knowledge book etc.

The screenshot shows the MediaMatrix administration interface. On the left is a sidebar with user information (Hi, Administrator) and links for Logout, Change Password, and various Site roles: Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. The main content area is titled "Content Subtype Management" and shows a table of content subtypes. The table has columns for CONTENT TYPE, NAME, LOGO, and STATUS. One record is listed: Book, CookBook Normal, CookBook Logo, Enabled. There are buttons for Add, Edit, and Delete. Navigation buttons at the bottom show Page 1 of 1, Records 1 to 1 of 1.

CONTENT TYPE	NAME	LOGO	STATUS			
Book	CookBook Normal	CookBook Logo	Enabled			

Figure 4.3.14.1

View Content Subtype

Content subtype can be viewed by using content subtype feature as shown in below figure.

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with user information (Hi, Administrator) and links for Logout, Change Password, and various Site roles: Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. The main content area has a navigation menu on the left with items like Asset Management, Asset Selection for product, Asset Type & Module Association, Asset Type Management, Content Subtype Management (which is selected and highlighted in blue), Content Template Management, Content Type & Asset Type Association, Content Type Management, Customer Management, Extention & Asset Type Association, Extention Management, Module Management, Page & Module Association, Page & User Type Association, Page Management, Product Content Management, and Product Management. The right side shows a "Content Subtype Management" page with a header "Home / CONTENT SUBTYPE MANAGEMENT / View". Below the header are four small icons. A toolbar below the header contains "Add", "Edit", and "Delete" buttons. The main content area displays a table with the following data:

UNIQUE ID	each83224daa14165741b6daa16fce9a
CONTENT TYPE	Book
NAME	CookBook Normal
DESCRIPTION	CookBook Normal
LOGO	CookBook Logo
DATE OF CREATE	0000/00/00
DATE OF UPDATE	0000/00/00
STATUS	Enabled

Figure 4.3.14.2

Add Content Subtype

Add Content Subtype is used to add new content subtype as shown in below figure.

The screenshot shows the MediaMatrix Content Subtype Management interface. On the left is a sidebar with a user icon and the text "Hi, Administrator". Below this are links for Logout, Change Password, and various Site roles: Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. The main content area has a header "Content Subtype Management" and a breadcrumb "Home / CONTENT SUBTYPE MANAGEMENT / Add". The form fields are:

UNIQUE ID *	a954d1aa0b474b4638a6e39e7650c2
CONTENT TYPE *	Please Select
NAME *	Book
DESCRIPTION *	DESCRIPTION
LOGO *	Please Select
STATUS *	Enabled

A blue "Add" button is at the bottom left of the form.

Figure 4.3.14.3

4.3.15 Content Template Management

Main

Content Template can be managed through content template management as shown in below figure. Content template management would be one html file.

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with a user profile icon and the text "Hi, Administrator". Below the profile are links for "Logout" and "Change Password". Under "Sites", there are links for "Administrator", "Approver", "Manager", "new", "New Page", "Publisher", "Reviewer", and "Sales Executive". The main content area has a navigation bar with icons for Home, Content Template Management, Content Subtype Management, Asset Type Management, Asset Selection for product, Asset Type & Module Association, Asset Management, and Product Management. The "Content Template Management" link is highlighted. To the right is a table titled "Content Template Management" showing one record:

CONTENT SUBTYPE	NAME	LOGO	ASPECT RATIO X	ASPECT RATIO Y	SIZE	STATUS
CookBook Normal	Big Image and Text	Big Image and Text	1	1	1268	Enabled

Below the table are page navigation controls: "Page", "1", "of 1", "Records 1 to 1 of 1", and an "Add" button.

Figure 4.3.15.1

Add / Edit / Delete

Content Template provided with add, edit and delete features.

The screenshot shows the MediaMatrix Content Template Management interface. On the left is a sidebar menu with the following items:

- Asset Management
- Asset Selection for product
- Asset Type & Module Association
- Asset Type Management
- Content Subtype Management
- Content Template Management** (selected)
- Content Type & Asset Type Association
- Content Type Management
- Customer Management
- Extention & Asset Type Association
- Extention Management
- Module Management
- Page & Module Association
- Page & User Type Association
- Page Management
- Product Content Management
- Product Management

The main content area is titled "Content Template Management" and displays a table with the following data:

	UNIQUE ID	5d7cdf71bde42f2e98fbdfc291e4712c
CONTENT SUBTYPE	CookBook Normal	
NAME	Big Image and Text	
DESCRIPTION	Big Image and Text	
LOGO	Big Image and Text	
SAMPLE IMAGE	Big Image and Text	
ASPECT RATIO X	1	
ASPECT RATIO Y	1	
SIZE	1268	
DATE OF CREATE	0000/00/00	
DATE OF UPDATE	0000/00/00	
STATUS	Enabled	
FILE uploaded	large_cookbook.html	

Figure 4.3.15.2

Add Content Template

Add content template is used to add new content template as shown in below figure.

The screenshot shows the MediaMatrix Content Template Management interface. On the left is a sidebar with user navigation and site roles. The main area is titled 'Content Template Management' and shows a form for adding a new template. The form fields include:

Field	Type	Value
UNIQUE ID *	Text	1b0c3f60f8b6ba82032c126126d30e5
CONTENT SUBTYPE *	Select	Please Select
NAME *	Text	CookBook Normal
DESCRIPTION *	Text	DESCRIPTION
LOGO *	Select	Please Select
SAMPLE IMAGE *	Select	Please Select
ASPECT RATIO X *	Text	ASPECT RATIO X
ASPECT RATIO Y *	Text	ASPECT RATIO Y
SIZE *	Text	SIZE
STATUS *	Select	Enabled

Figure 4.3.15.3

The last detail file uploaded in below figure for adding new content template requires html to be upload.

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with user navigation and site management options. The main area is titled "Content Template Management".

Sidebar Navigation:

- MediaMatrix
- Hi, Administrator
- Logout
- Change Password
- Sites**
 - Administrator
 - Approver
 - Manager
 - new
 - New Page
 - Publisher
 - Reviewer
 - Sales Executive

Main Content Area:

Content Template Management

Content Template Management	
CONTENT SUBTYPE *	Please Select
NAME *	NAME
DESCRIPTION *	DESCRIPTION
LOGO *	Please Select
SAMPLE IMAGE *	Please Select
ASPECT RATIO X *	ASPECT RATIO X
ASPECT RATIO Y *	ASPECT RATIO Y
SIZE *	SIZE
STATUS *	Enabled
FILE UPLOADED	<input type="button" value="Choose..."/> No file chosen

Buttons:

- Add

Figure 4.3.15.4

4.3.16 Publisher Management

Main

Figure for managing publishers.

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with a user profile icon and the greeting "Hi, Administrator". Below this are links for "Logout", "Change Password", and sections for "Sites" (Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, Sales Executive). The main content area has a header "Publisher Management" and a breadcrumb "Home / PUBLISHER MANAGEMENT". It displays a message "No records found" and a "Add" button. A vertical sidebar on the right lists various management modules: Content Type Management, Customer Management, Extension & Asset Type Association, Extension Management, Module Management, Page & Module Association, Page & User Type Association, Page Management, Product Content Management, Product Management, Product Staging Management, Product Subscription Management, Product Template Management, Publisher Management (which is selected and highlighted in blue), Sponsor Management, Subscription Management, User Management, and User Type Management.

Figure 4.3.16.1

Add Publisher

Add new publisher requires details about publishers as shown in below figure.

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with a user icon and the text "Hi, Administrator". Below this are links for Logout, Change Password, and various user roles: Sites, Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. The "Publisher Management" link is highlighted with a blue underline. The main content area has a header "Publisher Management" and a breadcrumb "Home / PUBLISHER MANAGEMENT / Add". A table form is displayed with the following fields:

UNIQUE ID *	f8e5136f1b9e0ac18680d954daab1ec
NAME *	Yamini
EMAIL ADDRESS *	yamini@gmail.com
ADDRESS 1 *	Address1
ADDRESS 2 *	Address2
CONTACT NUMBER *	123456789
LOGO *	Please Select ▾
STATUS *	Enabled ▾

A blue "Add" button is located at the bottom left of the form.

Figure 4.3.16.2

4.3.17 Sponsor Management

Main

Sponsor can be view, add ,delete, edit by Sponsor management.

The screenshot shows the MediaMatrix CMS interface. On the left is a sidebar with a user icon and the text "Hi, Administrator". Below this are links for Logout, Change Password, and various Site roles: Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. The "Sponsor Management" link is highlighted with a blue underline. The main content area has a header "Sponsor Management" and a breadcrumb "Home / SPONSER MANGEMENT / Add". It contains a form with the following fields:

UNIQUE ID *	4d130a84cccd48378135824ca221afbc
NAME *	NAME
EMAIL ADDRESS *	EMAIL ADDRESS
ADDRESS 1 *	ADDRESS 1
ADDRESS 2 *	ADDRESS 2
CONTACT NUMBER *	CONTACT NUMBER
LOGO *	Please Select ▾
STATUS *	Enabled ▾

A blue "Add" button is located at the bottom left of the form.

Figure 4.3.17.1

4.3.18 Subscription Management

Main

Subscription is used to manage amount, duration details as shown in below figure.

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with user information ('Hi, Administrator') and navigation links for Logout, Change Password, and various Site roles (Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, Sales Executive). The main content area has a header 'Subscription Management' and a breadcrumb 'Home / SUBSCRIPTION MANAGEMENT / Add'. The form contains fields for Unique ID (eb2741d7ee697bc8c472ea758246a0), Name, Description, Amount Payable, Duration, Service Agreement (a dropdown menu with 'Please Select'), and Status (a dropdown menu with 'Enabled'). A blue 'Add' button is at the bottom left of the form. The 'Subscription Management' link in the sidebar is highlighted with a blue underline.

UNIQUE ID *	eb2741d7ee697bc8c472ea758246a0
NAME *	<input type="text"/>
DESCRIPTION *	<input type="text"/>
AMOUNT PAYABLE *	<input type="text"/>
DURATION *	<input type="text"/>
SERVICE AGREEMENT *	Please Select
STATUS *	Enabled

Figure 4.3.18.1

4.3.19 Asset Selection for Product

Main

Asset selection for product

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with a user icon and the text "Hi, Administrator". Below this are links for Logout, Change Password, and various user roles: Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. The main content area has a header "Asset Selection for product" and a sub-header "Asset Selection for product". A dropdown menu titled "First Page" is open. A prominent error message "Please Select Proper Product Content Name" is displayed. To the right of the error message is a vertical list of management modules:

- Asset Management
- Asset Selection for product** (selected)
- Asset Type & Module Association
- Asset Type Management
- Content Subtype Management
- Content Template Management
- Content Type & Asset Type Association
- Content Type Management
- Customer Management
- Extention & Asset Type Association
- Extention Management
- Module Management
- Page & Module Association
- Page & User Type Association
- Page Management
- Product Content Management
- Product Management

Figure 4.3.19.1

Asset selection for product

The screenshot shows the MediaMatrix application interface. On the left, there is a sidebar with a user profile icon and the text "Hi, Administrator". Below this are links for "Logout", "Change Password", and a "Sites" section containing links for "Administrator", "Approver", "Manager", "new", "New Page", "Publisher", "Reviewer", and "Sales Executive". The main content area has a title "Asset Selection for product". Under this title, there is a dropdown menu showing "First Page" selected. Below it, there are two "Document" dropdown menus, both currently set to "Big Image and Text". At the bottom right of the main content area is a button labeled "Use This Data". To the right of the main content area, there is a vertical scroll bar.

Asset Management

Asset Selection for product

Asset Type & Module Association

Asset Type Management

Content Subtype Management

Content Template Management

Content Type & Asset Type Association

Content Type Management

Customer Management

Extention & Asset Type Association

Extention Management

Module Management

Page & Module Association

Page & User Type Association

Page Management

Product Content Management

Product Management

Asset Selection for product

First Page

Document

Big Image and Text

Document

Big Image and Text

Use This Data

Figure 4.3.19.2

Asset selection for product

The screenshot shows a web-based application interface for asset management. On the left, there is a sidebar with a user profile icon and the text "Hi, Administrator". Below the profile are several menu items: "Logout", "Change Password", and a "Sites" section containing links for "Administrator", "Approver", "Manager", "new", "New Page", "Publisher", "Reviewer", and "Sales Executive". The main content area has a header "Asset Selection for product". A dropdown menu titled "Asset Selection for product" is open, listing various management options. The listed items are: "Asset Management", "Asset Type & Module Association", "Asset Type Management", "Content Subtype Management", "Content Template Management", "Content Type & Asset Type Association", "Content Type Management", "Customer Management", "Extention & Asset Type Association", "Extention Management", "Module Management", "Page & Module Association", "Page & User Type Association", "Page Management", "Product Content Management", and "Product Management". The "Asset Type & Module Association" item is currently selected. To the right of the dropdown, there is a text area with the heading "First Page" and some placeholder text about "lorem ipsum".

Figure 4.3.19.3

4.3.20 Product Content Management

Main

Product Content Management

The screenshot shows the MediaMatrix Product Content Management interface. On the left is a sidebar with user navigation and site roles. The main area displays a product list with a single item.

Sidebar Navigation:

- Logout
- Change Password
- Sites**
 - Administrator
 - Approver
 - Manager
 - new
 - New Page
 - Publisher
 - Reviewer
 - Sales Executive

Main Area:

Product Content Management

Home / PRODUCT CONTENT MANAGEMENT

Product Content Management

PRODUCT	NAME	SIZE	SAMPLE IMAGE	STATUS	Actions
First CookBook	First Page	20	Big Image and Text	Enabled	

Page: 1 of 1 Records 1 to 1 of 1

Add

Product Content Management is highlighted in the sidebar.

Figure 4.3.20.1

4.3.21 Product Management

Main

Product Management

The screenshot shows the MediaMatrix software interface. On the left is a vertical navigation bar with a user icon and the text "Hi, Administrator". It includes links for Logout, Change Password, and various Site roles: Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. The main content area has a title "Product Management" and a breadcrumb "Home / PRODUCT MANAGEMENT". Below this is a toolbar with icons for search, refresh, and other operations. A table lists two items: "temp" and "First CookBook", both marked as "SENT FOR APPROVAL" and "Enabled". Each item has edit and delete icons. At the bottom of the table is a page navigation bar showing "Page 1 of 1" and "Records 1 to 2 of 2", along with an "Add" button. The "Product Management" link in the left sidebar is highlighted.

NAME	CURRENT PROGRESS	STATUS		
temp	SENT FOR APPROVAL	Enabled		
First CookBook	SENT FOR APPROVAL	Enabled		

Figure 4.3.21.1

4.3.22 Product Subscription Management

Main

Product Subscription Management

The screenshot shows the MediaMatrix administration interface. On the left is a sidebar with user navigation and site management options. The main area is titled "Product Subscription Management" and contains two dropdown fields: "PRODUCT DISPLAY * Please Select" and "SUBSCRIPTION * Please Select". A blue "Add" button is located below these fields. The sidebar includes links for Content Template Management, Content Type & Asset Type Association, Content Type Management, Customer Management, Extention & Asset Type Association, Extention Management, Module Management, Page & Module Association, Page & User Type Association, Page Management, Product Content Management, Product Management, Product Staging Management, Product Subscription Management (which is currently selected), Product Template Management, Publisher Manamgement, and Sponser Management.

Figure 4.3.22.1

4.3.23 Product Template Management

Main

Product Template Management

The screenshot shows the MediaMatrix application interface. On the left is a vertical navigation sidebar with a user icon and the greeting "Hi, Administrator". Below this are sections for "Logout", "Change Password", and "Sites". The "Sites" section contains links for "Administrator", "Approver", "Manager", "new", "New Page", "Publisher", "Reviewer", and "Sales Executive". On the right is the main content area titled "Product Template Management". The top navigation bar includes "Home / PRODUCT TEMPLATE MANAGEMENT" and icons for search, refresh, and other operations. Below this is a table with two columns: "PRODUCT CONTENT" and "CONTENT TEMPLATE". A single row is visible, showing "First Page" under "PRODUCT CONTENT" and "Big Image and Text" under "CONTENT TEMPLATE". At the bottom of the table are buttons for "Add", "Page" (with page number 1), and navigation arrows. The "Product Template Management" link in the sidebar is highlighted with a blue underline.

Figure 4.3.23.1

View / Add / Edit / Delete

The screenshot shows the MediaMatrix application interface. On the left is a sidebar with a user profile icon and the text "Hi, Administrator". Below the profile are links for "Logout", "Change Password", and sections for "Sites" (Administrator, Approver, Manager) and "User Types" (new, New Page, Publisher, Reviewer, Sales Executive). The main content area has a title "Product Template Management" and a breadcrumb navigation "Home / PRODUCT TEMPLATE MANAGEMENT / View". Below this are buttons for "Add", "Edit", and "Delete", and a toolbar with icons. A table displays product content details:

PRODUCT CONTENT	First Page
CONTENT TEMPLATE	Big Image and Text

The sidebar also lists other management modules: Content Type Management, Customer Management, Extention & Asset Type Association, Extention Management, Module Management, Page & Module Association, Page & User Type Association, Page Management, Product Content Management, Product Management, Product Staging Management, Product Subscription Management, Product Template Management (which is currently selected), Publisher Management, Sponsor Management, Subscription Management, User Management, and User Type Management.

Figure 4.3.23.2

4.3.24 Product Staging Management

Main

Product Staging Management

The screenshot shows the MediaMatrix application interface. On the left is a vertical navigation menu with a user icon and the greeting "Hi, Administrator". It includes links for Logout, Change Password, and various Site roles: Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. The main content area has a header "Product Staging Management" and a breadcrumb trail "Home / PRODUCT DISPLAY MANAGEMENT / Add". The form contains fields for Unique ID (with value e1758fce1819ab8c2ceb4599a715131), Product (a dropdown labeled "Please Select"), Sponsor (a dropdown labeled "Please Select"), Publisher (a dropdown labeled "Please Select"), Name (an input field containing "NAME"), Description (a large text area labeled "DESCRIPTION"), Title Page (a dropdown labeled "Please Select"), and three Sample Image dropdowns, each labeled "Please Select".

Figure 4.3.24.1

4.3.25 Manager Dashboard

Main

Manager Dashboard

The screenshot shows the MediaMatrix Manager Dashboard. On the left, there is a sidebar with a user profile icon and the text "Hi, Administrator". Below the profile are links for "Logout", "Change Password", and a "Sites" section containing "Administrator", "Approver", "Manager", "new", "New Page", "Publisher", "Reviewer", and "Sales Executive".

The main content area is titled "Asset Type & Module Association". It has a breadcrumb navigation bar with "Home / Asset Type & Module Association". Below the breadcrumb are five small icons: a magnifying glass, a list, a document, a gear, and a person.

A table titled "Asset Type & Module Association" lists various asset types and their associated modules. The columns are "STATUS", "ASSET NAME", and "MODULE NAME". Each row includes edit and delete icons.

STATUS	ASSET NAME	MODULE NAME	Actions
Enabled	Publisher Logo	Module Management	
Enabled	Publisher Logo	Asset Management	
Enabled	Publisher Logo	Asset Type Management	
Enabled	Publisher Logo	Asset Type & Module Association	
Enabled	Publisher Logo	Content Subtype Management	
Enabled	Publisher Logo	Content Template Management	
Enabled	Publisher Logo	Content Type Management	
Enabled	Publisher Logo	Content Type & Asset Type Association	
Enabled	Publisher Logo	Extention Management	
Enabled	Publisher Logo	Extention & Asset Type Association	
Enabled	Publisher Logo	Page Management	
Enabled	Publisher Logo	Page & Module Association	
Enabled	Publisher Logo	Product Management	
Enabled	Publisher Logo	Publisher Managment	
Enabled	Publisher Logo	Sponser Management	
Enabled	Publisher Logo	Subscription Management	
Enabled	Publisher Logo	User Management	

Figure 4.3.25.1

4.3.26 Sales Executive Dashboard

Main

Sales Executive Dashboard

The screenshot shows a user interface for a sales executive dashboard. On the left, there is a vertical sidebar with the MediaMatrix logo at the top. Below the logo is a large, dark gray placeholder icon for a user profile picture. Underneath the icon, the text "Hi, Administrator" is displayed. A horizontal line separates this from a list of links. The links are: Logout, Change Password, and a section titled "Sites" which includes links for Administrator, Approver, Manager, new, New Page, Publisher, Reviewer, and Sales Executive. Another horizontal line follows this list. To the right of the sidebar, the main content area has a header "Product Subscription Management". Below the header, the URL "Home / PRODUCT SUBSCRIPTION MANAGEMENT" is shown. There are five small, faint icons below the URL. A message "No records found" is displayed in a box, along with a single "Add" button.

Figure 4.3.29.1

Chapter 5

Result and Future Scope

Result

This project is an apparent solution to the problems faced by the organizations in generating and publishing content. The solution is to provide the coupling facility between the tools of generating and publishing, which in turn proposes the new challenges that are related to cross domain functionality, and are by nature hard to accomplish or at least not achievable without complex and sophisticated solutions. The solution is to provide the framework that does the publishing and generation for us. And this solution can be converted into the need if implemented properly. This solution is focused on creating online framework that provides the means of generating interactive content and mechanism to publish the content over the heterogeneous platforms ranging from formal desktop environments to mobile application. This means that the publishing party would provide the source content as input and views that are compatible with the multiple platforms and environments will be available as output. This solution is made from the ground up with the latest technology available and hence it keeps the door for the expansion and extension open. And hence it is more preferable and economical. Also the published content is compatible with the majority of the platforms ranging from desktop systems to the Sandboxed Mobile Application environment. Also the system is capable of publishing content that target device can cache offline. And hence eliminate the need of the continuous communication with our server. The system is accessible from the web enabled device and would have group of users each with different access rights and set of primitive action and responsibility. And according to the criterion set by us, users will be able to access the content. This provision of the content access will be subject to the service agreement which can be decided, and are subject to change or replace. The system can be extended to publish the content in multiple languages depending on the region of their deployment. This enables us in acquiring the variety of consumer from wide demographic regions.

Future Scope

Release the proposed system at the completion of major project under semester 8.

Chapter 6

References

References

1. www.wikipedia.com