

SDA ASSIGNMENT 7

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SRS DOCUMENT

Purpose

This document is intended for both the stakeholders and the developers of the system.

Purpose of this document is to present a detailed description of the Content Posting System.

This document will ensure to highlight the

- Key features
- Objectives
- Interfaces
- What it will do - (Desired Outputs),
- System Behaviors on interaction with External Stimuli, and the
- Constraints

Under which the system will function as a complete Content Posting System.

Scope

This Content Posting System will be a mixture of both a professional web design application like Reddit, Quora and a straightforward web-based content management system like tumblr. Special Tools will be provided to maximize editor's and content creators' productivity including automation, and fast interacting, and posting process. Community Discussion will also be available for all users and visitors. Users can make their own free independent domains and post almost anything (Business, Blogs, Books, Videos...). State of the art tested algorithms will be used in the system to avoid Inaccurate Authorship and detection of plagiarism at the same time - maintaining copyrights' policy. State of the art compression algorithms will be used to keep the network out of congestion when high traffic.

The Architecture Design states that the admin will manage the system operations, also having and a chatbot communicating with the viewers, creators, and citers if any help required. Using this software users can actively see the number of viewers (citations) and also get the feedback on their attached emails via third party forms. System will also house a DBMS, and a in house copy of DBMS in case main attached DBMS fails. DBMS will contain a list of Authors, Reviewers, Articles, their citations, authors credibility, number of users, views, user interests against cooky id (for targeted adds).

Making the software easy to use while embedding everything above into the system.

Revenue will be generated by adds. Also promising a 5-year maintenance support for the system.

Project Title
“Turn up the World!”
“Post it”

Project Overview Statement

Anyone in the World can just browse up and start using the system without any precondition sign up! Users making their own community/personal groups and sharing their content reaching to a global audience – awareness campaigns run over the system – and leaders joining and posting stuff will make this system a global hit.

Accounts Login will only be needed if to post anything or react to or into to community. Both users and viewers will have their own personal dashboards, all the queries' cookies will be maintained their, and changes will be committed DBMS in real time. A Chatbot will be available for firsthand customer care 24/7 so no query goes unanswered. With all the complex embedded technology the system would require no prior knowledge for stimuli interaction. User's data and, their personal information is protected using end to end encryption. State of the Art compression algorithms will be used for better transportation, along with new tested algorithms for detection of originality of the work will be embedded in.

Cookies against all the users will be maintained which would keep track of their interests – this data may be used by the funding organizations for their interest. This large set of data can result in a strategy of Targeted adds to generate revenue and increase particular sales. Both the business oriented, and technology providers can use the collected data. Moreover, we house automated Machines to extract targeted safe information and draw a useful result.

We aim to be the BEST! – and we would Be! We see a market of 2 billion active users daily under us today!

Project Goals And Objectives

Goals:

- Improve Customer Satisfaction
- Content Contributor Satisfaction
- Global Community Discussion Pages for reliable authentic information exchange.
- Original High-Quality Content for everyone
- Becoming a global authoritative source
- Giving one of the best Customer Supports in the market
- Improve Interaction Potential Customers
- Build a Brand

Objectives:

- Customer Interactions (Survey completions, Competition entries, Article Page Visits, Event Sign-ups)
- Driving more traffic to system by marketing drives, and better customer support (FAQ page visited, Clicked email links, Inquiry form submissions)
- Cost Reductions (PDF Downloads, Online inquiries, Live Chat Sessions)
- Brand Building (Video Views, Website feedback forms, Time spent on key pages)
- Making Front End more responsive using new techniques.
- Capture Leads using experts' analysis following Improving Lead Conversion Rate
- Maximize RO – to increase profitability (Using Cookies to see customer interest)

Functional Requirements

- Login
- User Content Account (Channel)
- Uploading/Posting
- Category/Interests
- Date, time and Location
- Language and License
- Adds Monetization
- Verification
- Content Title and Description
- Like, Dislike, Share, Add to Favorites
- Notifications
- Home, Trending Topics
- Views and Analytics
- Report – User Response on Hate/Illegal Activity
- Follow/Subscribe

Tools And Technologies Used with Reasoning

Core

- Operating System Microsoft Windows Server 2016 x64
- Web Server IIS 10
- Database SQL Server 2019 running Microsoft Windows Server 2016 x64: Beats all other dbs when load is maximum, and traffic is congested
- Language Python: Maintainable, secure and comprised of very few keywords

Software Development Tools

- IDE Visual Studio 2019
- Framework Microsoft .NET Core 3.1
- Angularjs for frontend - A large collection of javascript libraries.

- Opensearch protocol: Provides a way for websites and search engines to publish search results
- Browser Framework jquery 1.12.4 – fast and reliable. Globally Trusted.
- Source Control Git using a github Enterprise instance hosted by github
- Google Maps: World's most popular map data through API
- Adobe Flash: cross-platform plugin that plays animations, videos and sound files in .SWF format
- Swift for ios/ Kotlin for android: Trusted globally - fast, reliable

Core Functional Requirements

Sr. No	Requirement	Actor	Use case
1	User shall log into his/her personal account.	User	Login
2	User shall be able to enable or disable monetization in their personal accounts.	User and Admin	Monetization
3	The user shall be able to Upload Content from their accounts.	User and System	Uploading
4	User shall Choose the category the uploaded content belongs to.	User	Choose Category
5	User shall select date, time and location of the posted content.	User	Choose Date, Time and Location
6	User shall select language and available licenses.	User	Language and License
7	User shall give an appropriate content title, and related Description of the content.	User	Title and Description
8	User shall be able to explore on the views and analytics of the contents posted from their accounts.	User and System	Views and Analytics
9	The user shall get all the notifications on the content.	User and System	Notifications
10	User shall be able to Add to favorites, Like/Dislike, or Share the content from their accounts.	User	Like, Dislike, Share and Add to Favorites
11	The system shall verify user details i.e., personal content.	System	Verification
12	The user shall be able to manipulate and create a channel to upload/post Content from their domains.	User	Create a Channel

The Use Case Description

NO # 1

Use case Name	Login	
Primary Actors	User	
Stakeholders and interests	User	<ul style="list-style-type: none"> By logging into the system user shall get the personalized experience, they may be able to use the premium features of the system including, posting/uploading, taking part in community discussions etc.
Precondition	<ul style="list-style-type: none"> The user has an account associated with “Post it”. The user is trying to log in with their account. 	
Post condition	<p>The user is logged into his personal account.</p> <p>The user has access to the personalized functions of the system.</p>	
Main Success Scenario	Step No.	Action
	1	The system prompts the user for their username and password.
	2	The admin enters username and password.
	3	The system gets password registered to the username.
	4	The system verifies the password and sets the admin’s authorization.
	5	The admin is given access to the system to perform their job

NO # 2

Use case Name	Uploading	
Primary Actors	User or System	
Stakeholders and interests	User	<ul style="list-style-type: none"> The user by uploading content into the system can start to interact with the general audience and share their opinions with them. Moreover, users will be able to generate polls for any kind of topic for better understanding and information. Furthermore, users may be able to earn money using the monetizing feature.
	System	The system shall have an upload button for content.
Precondition	<ul style="list-style-type: none"> The user must have a personal channel created on their account in order to upload content. Video format of the videos must be MOV, MP4 (MPEG4), AVI. 	
Post condition	The User/System uploads/posts their content into the system or general community of the "Post it"/	
Main Success Scenario	Step No.	Action
	1	User toggles into their created channel
	2	Users click on the upload button.
	3	Users then may select the files/videos to be posted in.
	4	Users then wait for files to be loaded into the website and then click on the upload button.
	5	System prompts users to pledge on the originality of the work, and finally the content gets Posted.

NO # 3

Use case Name	Choose Category	
Primary Actors	User	
Stakeholders and interests	User	<p>The user will make their content fall under a certain category. By this it would be</p> <ul style="list-style-type: none"> • Easy for the audience to view/fetch and rate their content under specific categories. • The content will reach more devices, as the compression algorithms are linked to the category selected for better optimization and user experience.
Precondition	<ul style="list-style-type: none"> • The user has posted content into general community. • The user has given positive consent on all prompts. 	
Post condition	The content is placed into predefined categories and is made available in those categories.	
Main Success Scenario	Step No.	Action
	1	After Uploading, in the settings user can choose a category of the uploaded content out of available categories.
	2	User Clicks on the selected category.
	3	Video now starts falling under selected category.

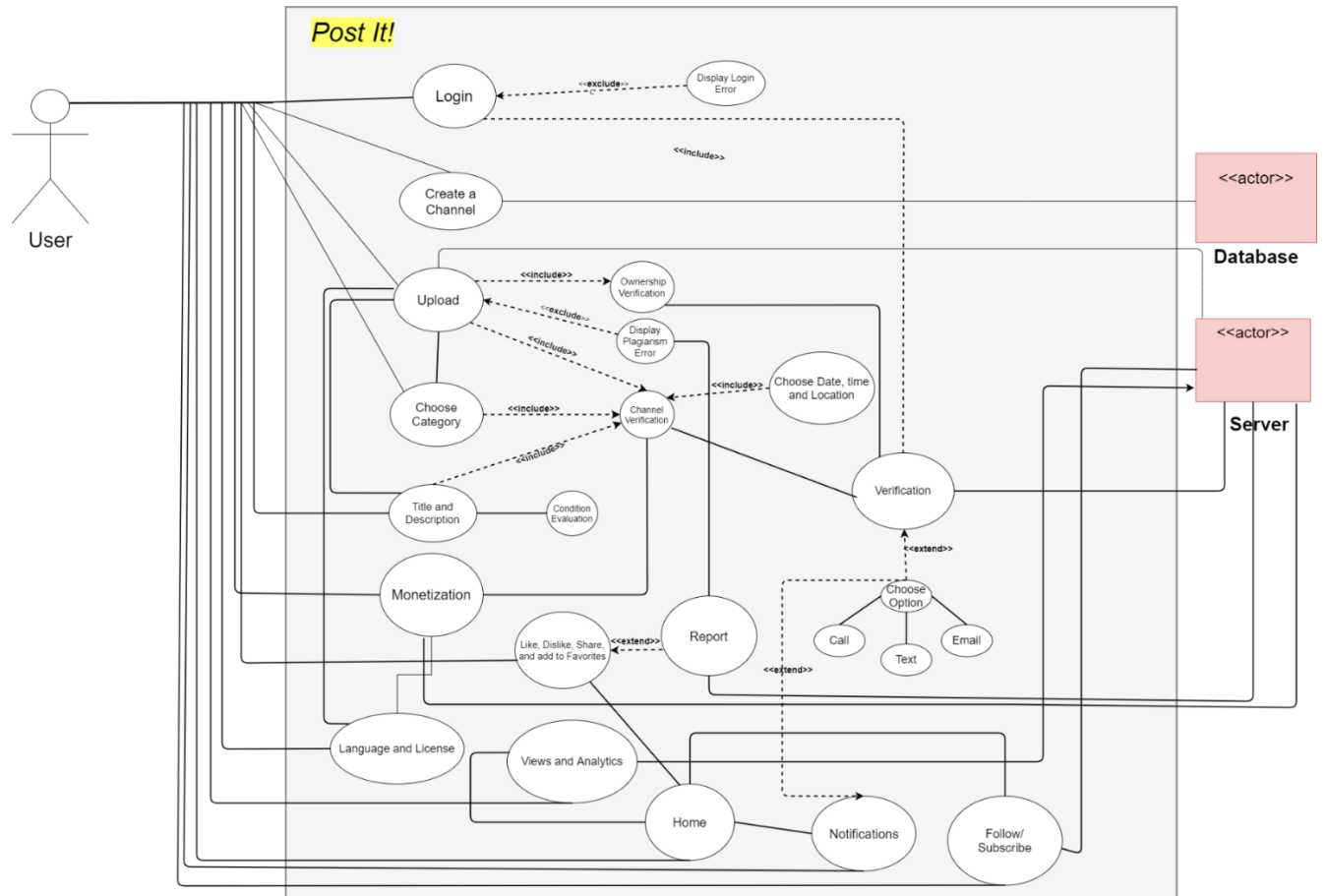
NO # 4

Use case Name	Choose Date, Time and Location	
Primary Actors	User	
Stakeholders and interests	User	<ul style="list-style-type: none"> • Easy Search for the audience and the user itself by Date/Time and Location. • Location will make the content available to targeted regions and users for better viewership and response. • A record will be maintained of user posts.
Precondition	<ul style="list-style-type: none"> • The user is logged onto his account. • The user has created his own channel. • The default date, time and location of the video will be set to none. 	
Post condition	User sets date, time and location for their content.	
Main Success Scenario	Step No.	Action
	1	In the uploaded content settings, user must have the option to select date, time and location of the video.
	2	User Clicks on the button and selects from bars.
	3	Video now starts falling under selected date, time and location.
Extensions	1	Admin must have the option to change the date and location of the content whenever he wants but the date of publishing the video must not be changed and will displayed in the video description.

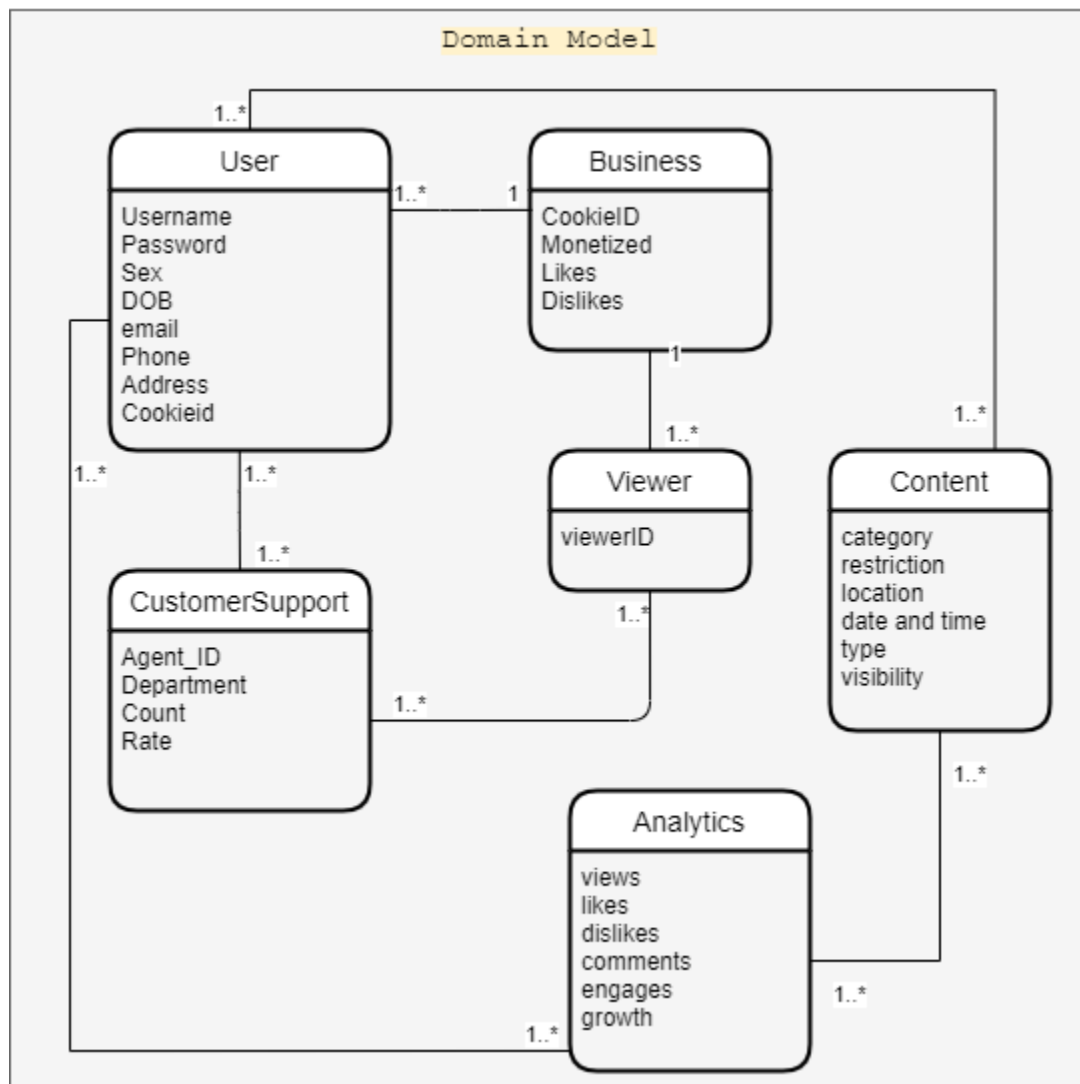
NO # 5

Use case Name	Title and Description	
Primary Actors	User	
Stakeholders and interests	User	<ul style="list-style-type: none"> • Easy Search for the audience and the user itself by Title and Description. • Title will make the content available to targeted users for better viewership and response.
Precondition	<ul style="list-style-type: none"> • The user has created his own channel. • The title of the video must be less or equal to 100 characters. • The description of the video must be less or equal to 5000 characters. • User must be given the option to edit video title and description any of his videos on the channel. • User must be able to see the title and description of every content below the content itself. • The title of the video must not contain any URL links. The description of the video can contain external links. 	
Post condition	Title and Description of the Content is set.	
Main Success Scenario	Step No.	Action
	1	In the uploaded content settings, user must have the option to set Title and Description of the Content.
	2	User Clicks on the button and updates the default Title.
	3	Video now starts falling under selected Title and Description.
	4	Video now has given Title and Description.

Use Case Diagram

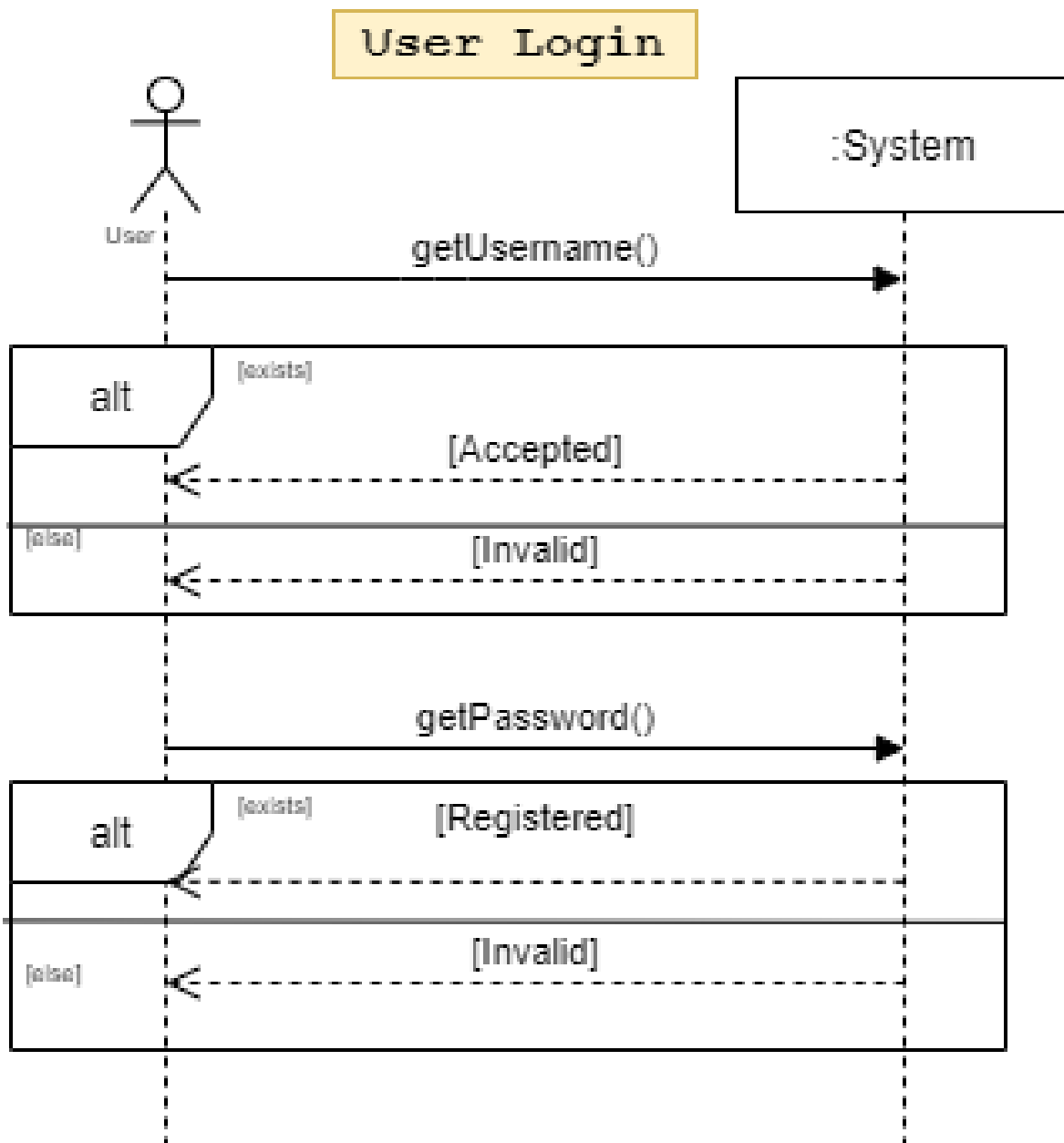


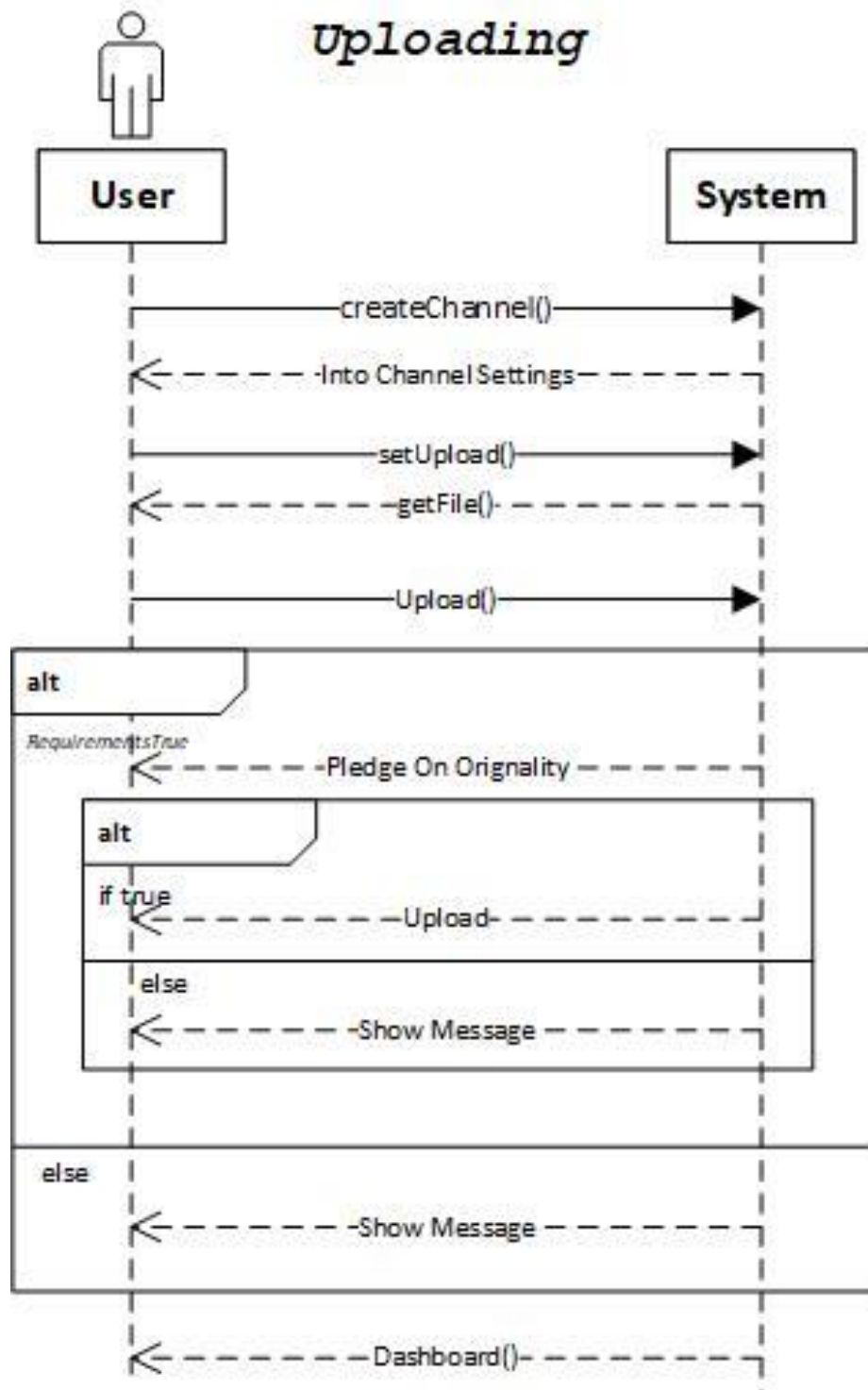
Domain Model Diagram



System Sequence Diagram

NO # 1



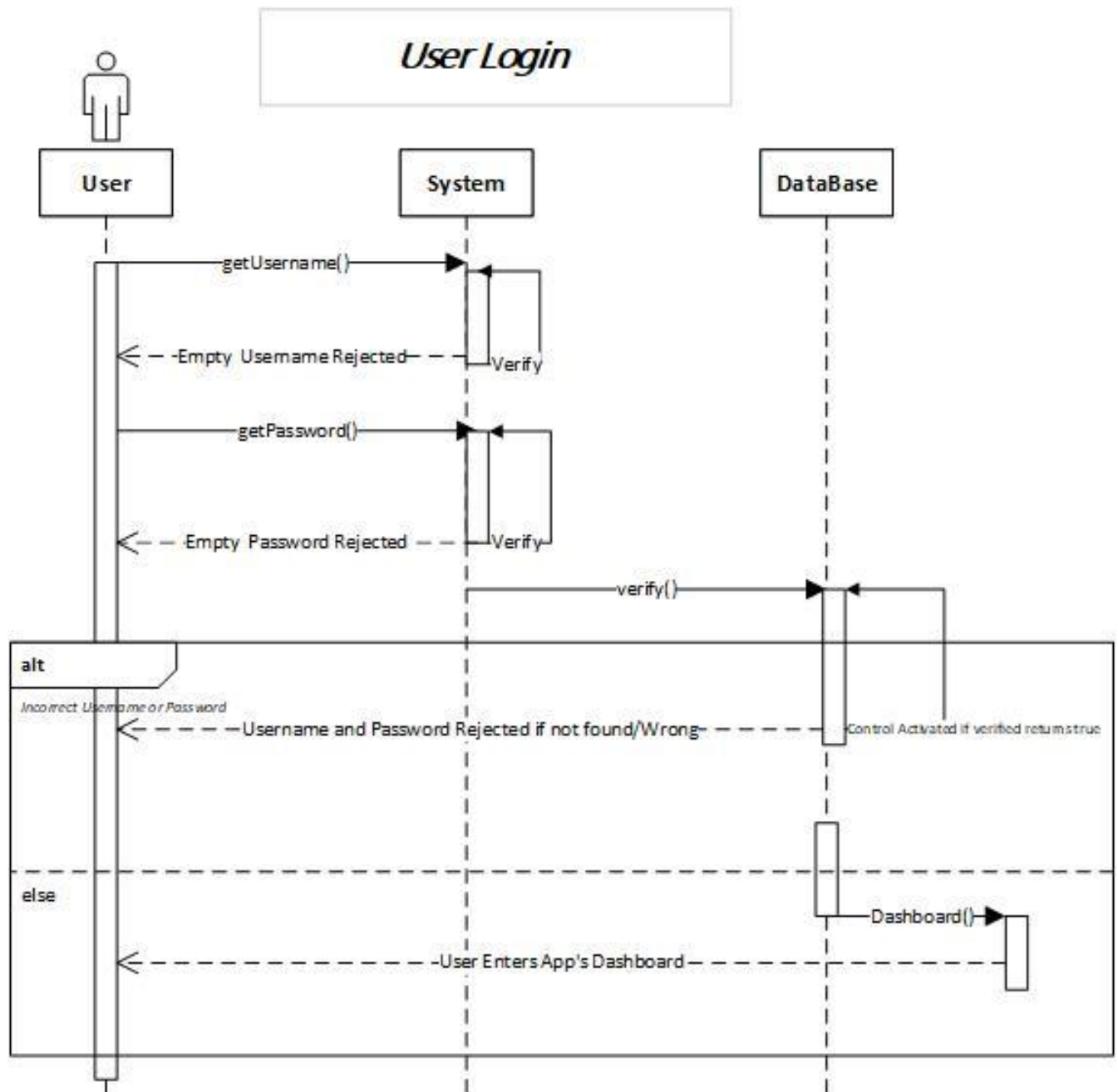
NO # 2**Uploading**

Operational Contract

- **Contract:** Verifying Channel
- **Operation:** Verify User Personal Channel on “Post It”
- **Cross- References:** Verification
- **Pre-conditions:** If the admin has a channel, he must have the option to verify their channel.
- **Post-conditions:**
 - Channel was verified. (Instance creation)
 - A confirmation SMS was associated with verification. (Association formed)
 - Duration limit was set. (Attribute modification)
 - Live streaming was unlocked. (Attribute modification)

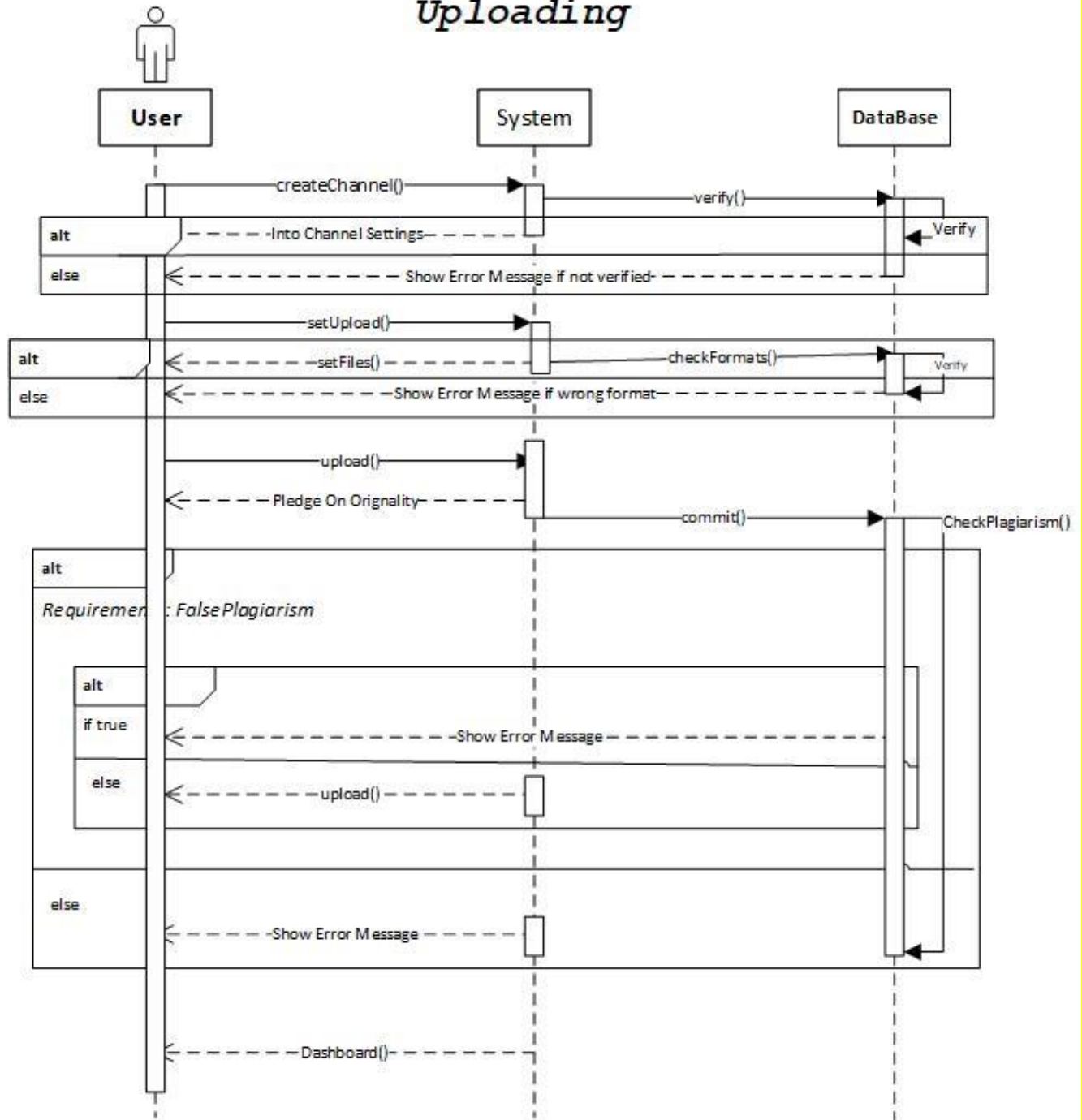
System Diagram

NO # 1

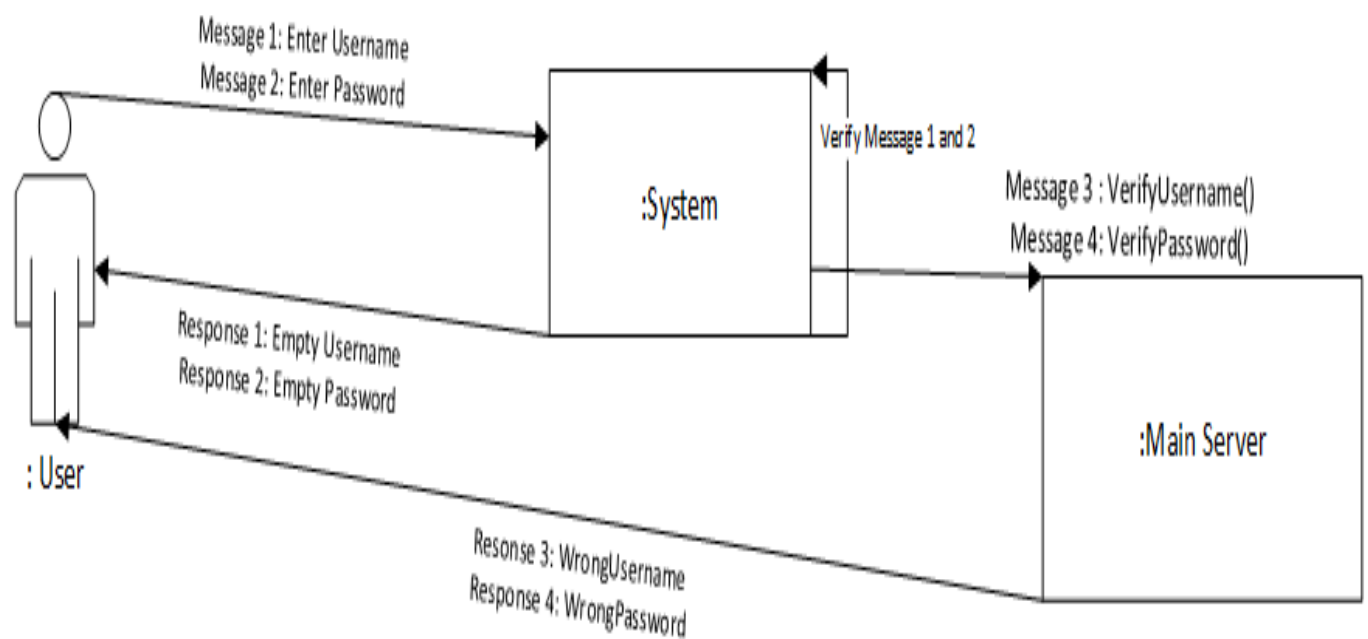


NO # 2

Uploading

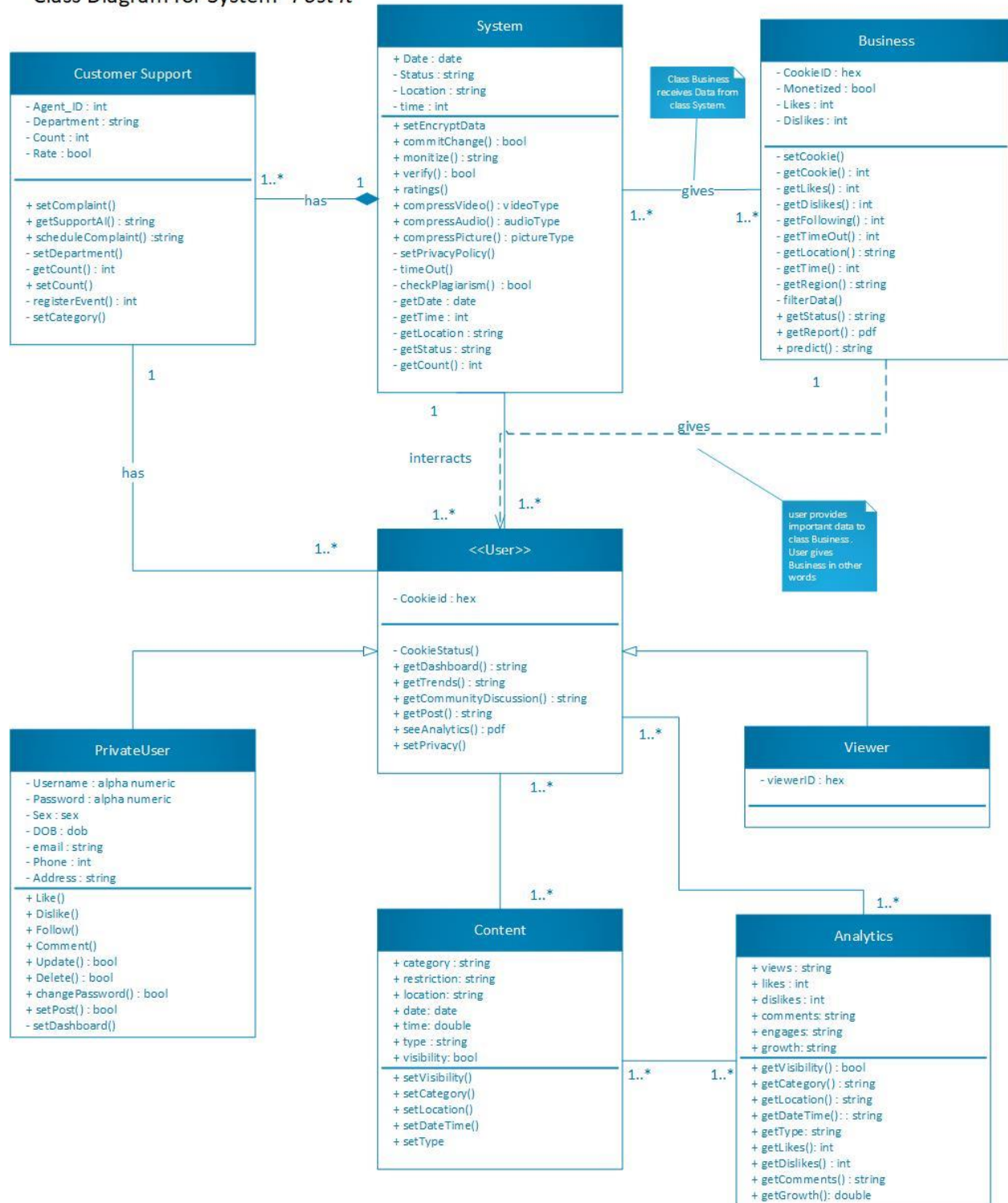


Communication Diagram



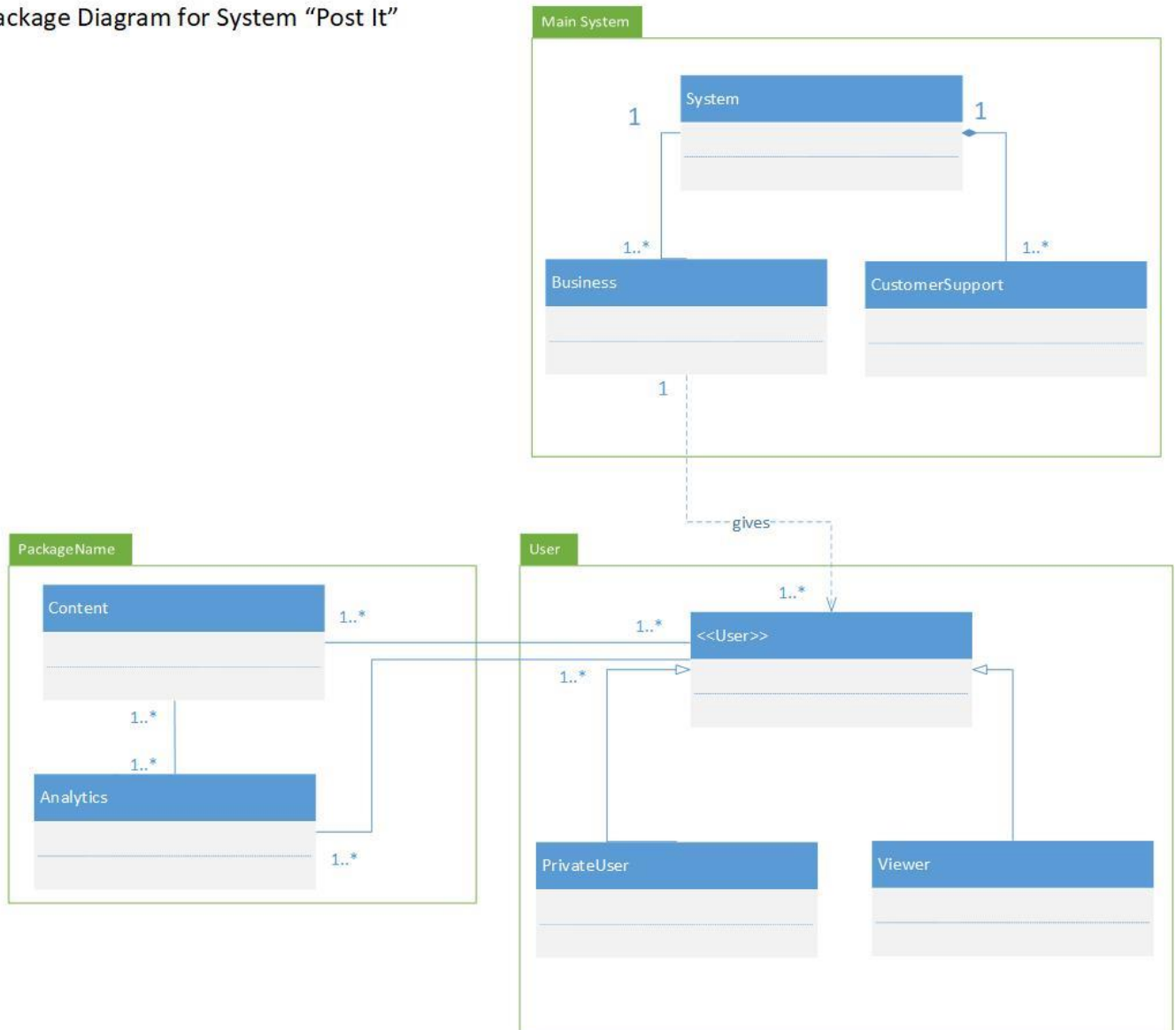
Class Diagram

Class Diagram for System "Post It"



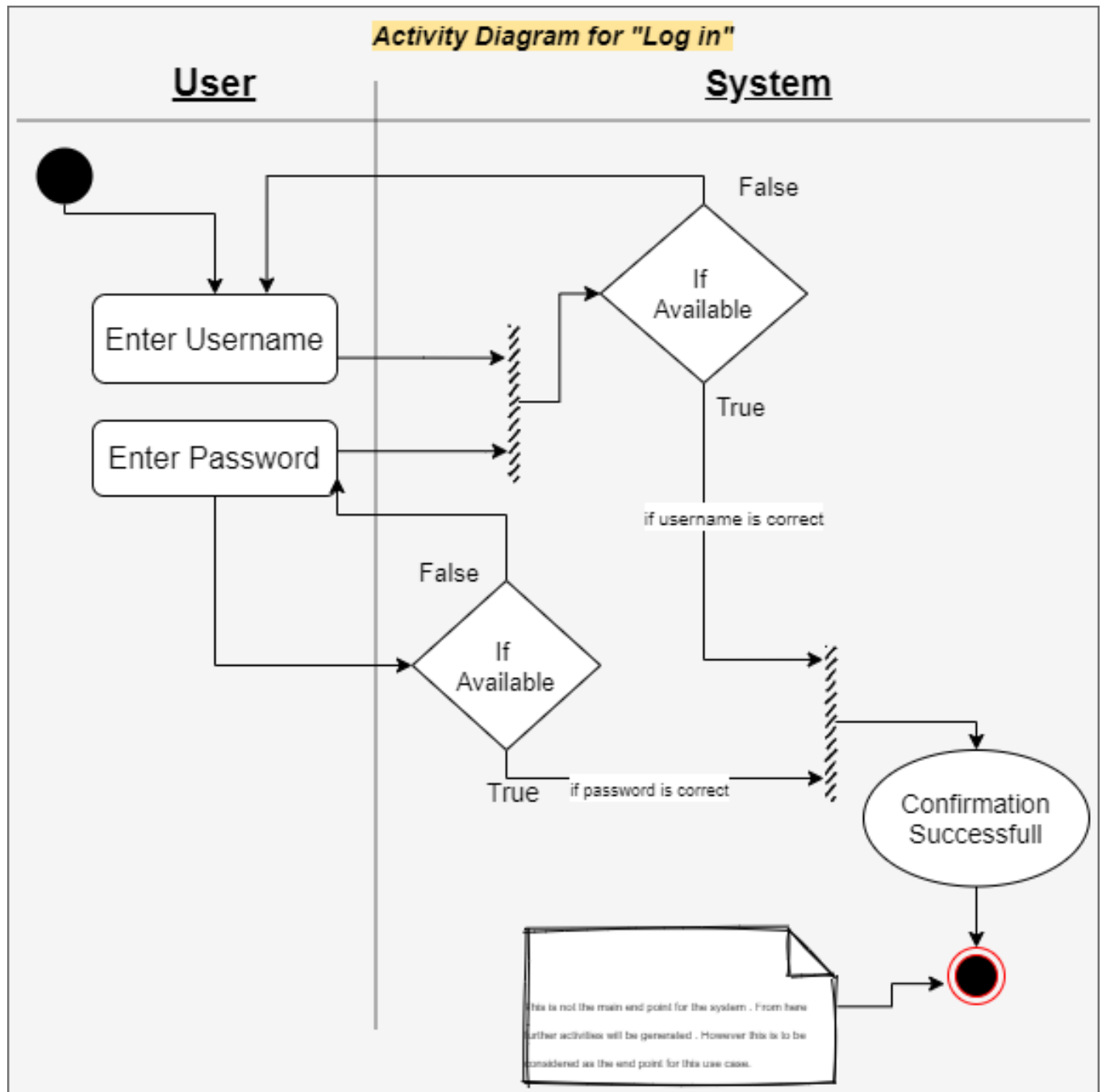
Package Diagram

Package Diagram for System "Post It"

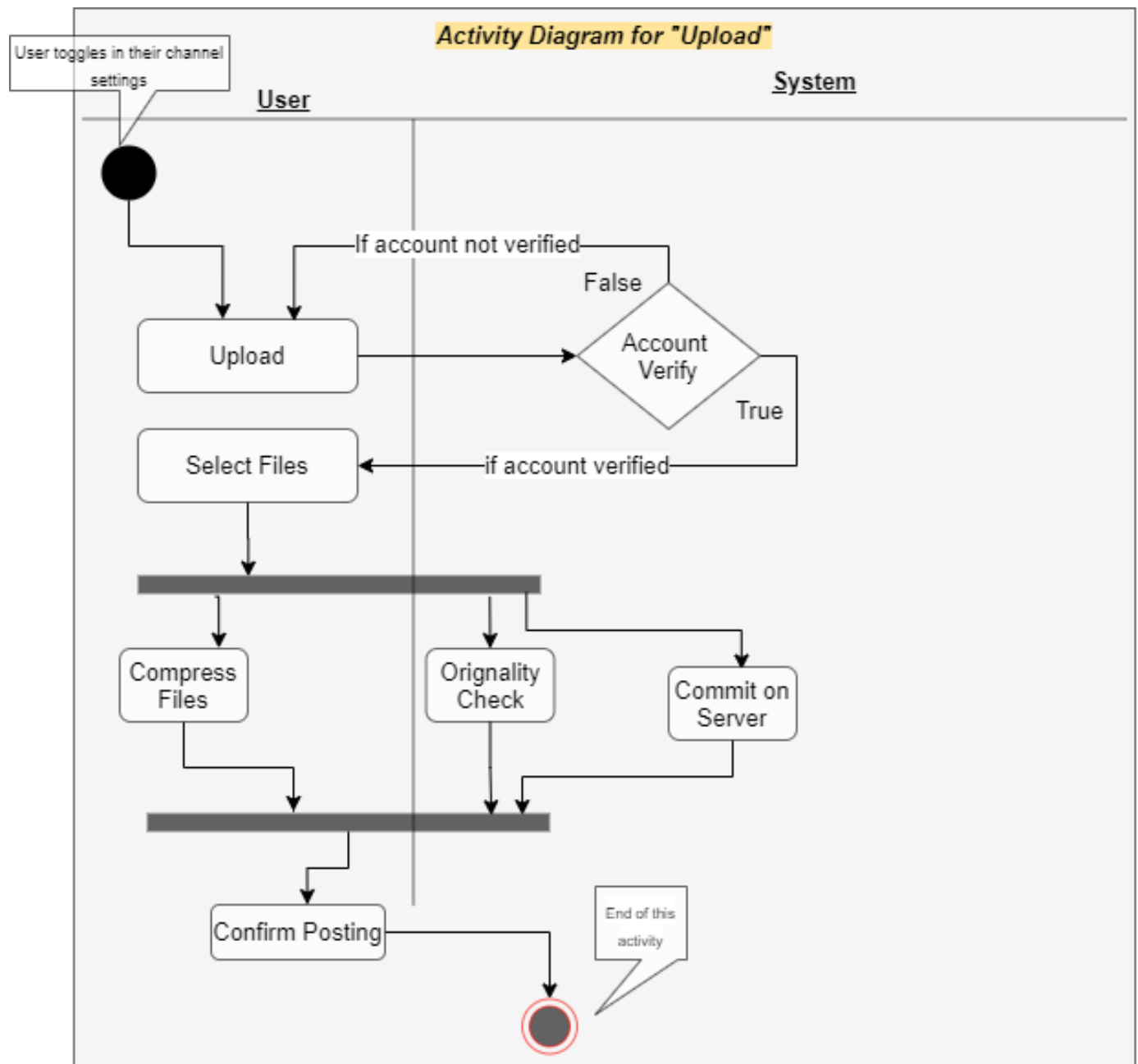


Activity Diagram

NO # 1

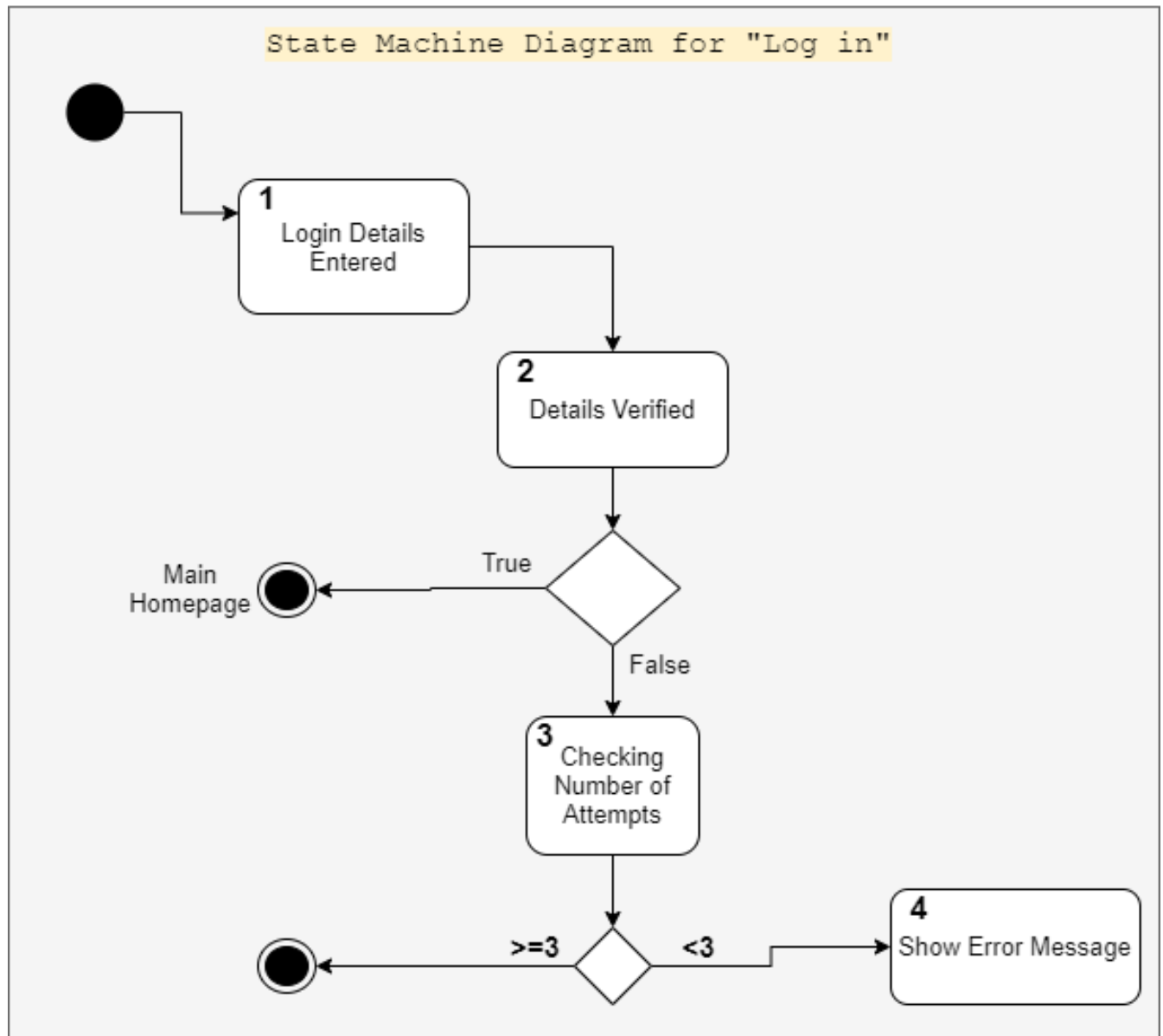


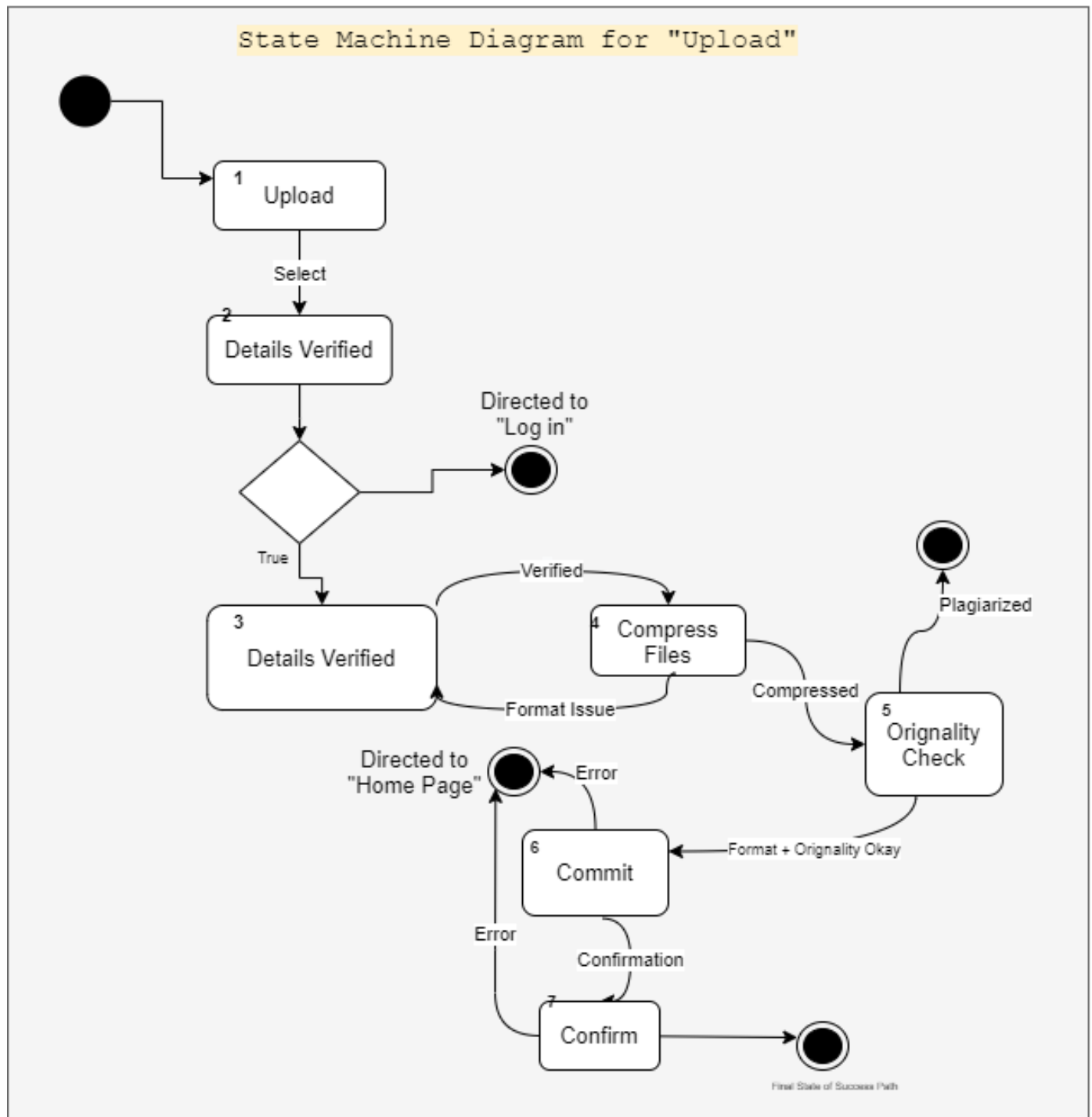
NO # 2



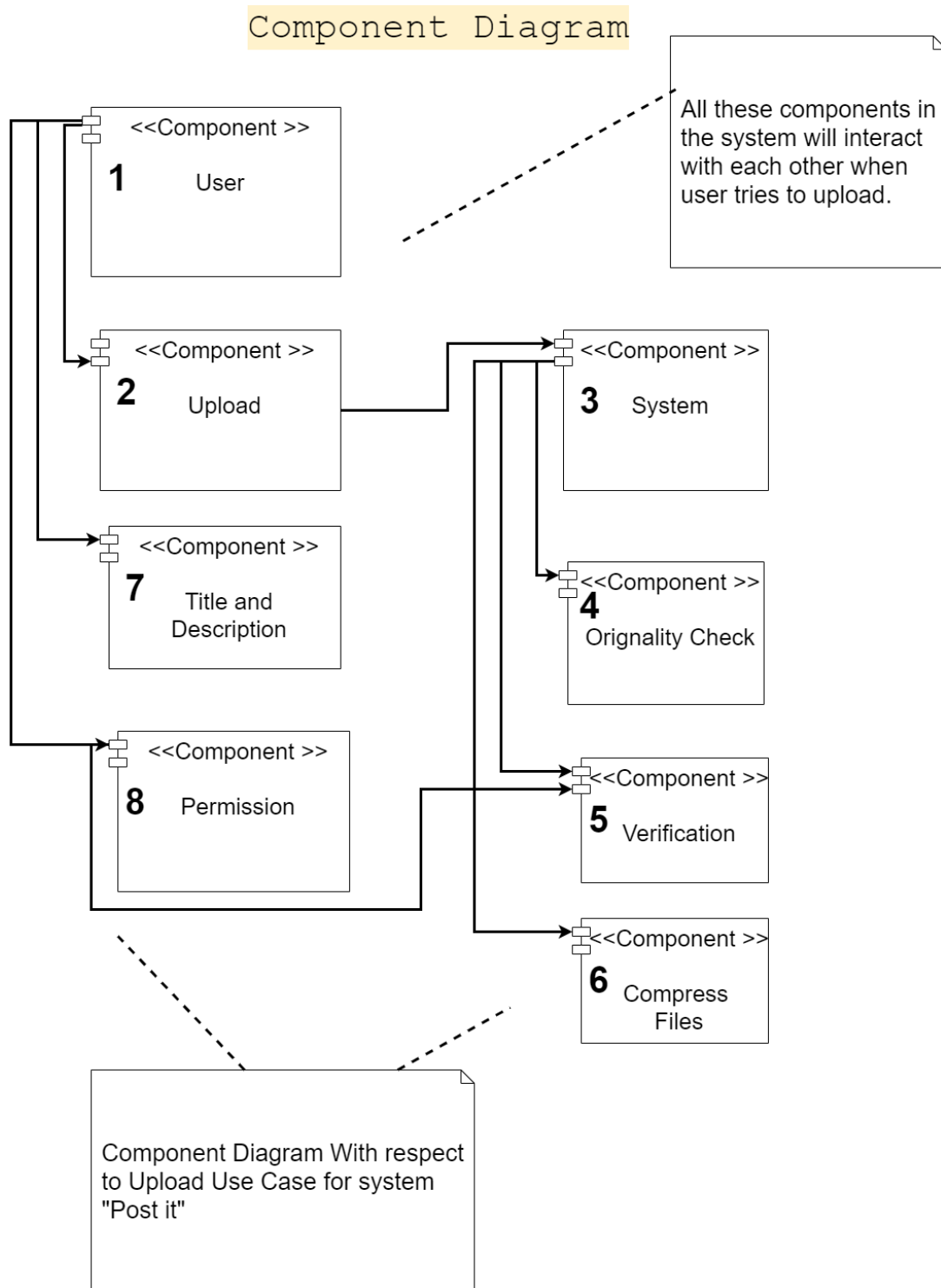
State Machine Diagram

NO # 1



NO # 2

Component Diagram



Deployment Diagram

Deployment Diagram

