Design

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ABSTRACT:

The consumption of media via video streaming services is higher than ever. With video streaming platforms such as Netflix, Twitch, and YouTube growing continuously, consumers of these platforms have an endless amount of content to watch. Oftentimes, consumers who may watch multiple video media or platforms at once, have to change between multiple screens or browser windows. Proposed is a multimedia platform which will allow consumers to watch multiple video streaming services at once, on a single screen, to alleviate the need to switch between screens or windows.

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INTRODUCTION:

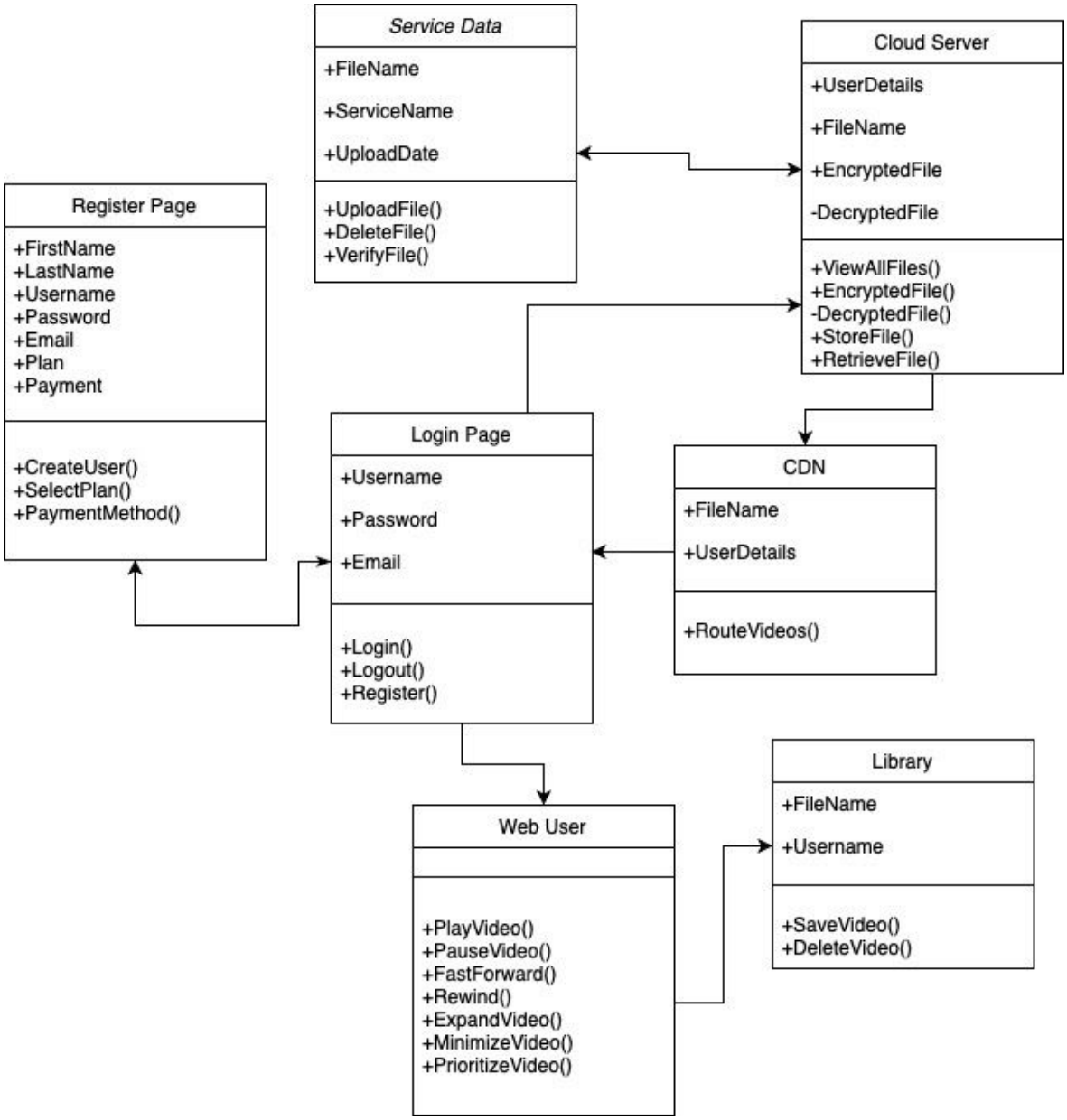
The purpose of this Design Document is to provide an in depth system design layout of the Redflix video streaming service. As mentioned in the Architectural Plan, we will be using the Django Web Framework to implement the design. CodePen, a development environment, will be used to create the front end, providing the user interface of the Redflix website. Amazon Web Services (AWS) will be the key feature in offering content delivery to users of the system, as well as solutions for ingesting, processing, storing, delivering, and analyzing all of the video and media content.

GUI (Graphical User Interface) Design:

// screen designs (coded or using drawing tool)

This is a screenshot of the front page of our website, here the user will have access to all the menu options in the navigation bar as well as the actual platform itself.

STATIC MODEL:



Service Data: Assuming the content from the services (ex: movies, youtube, live streams, etc) have those methods.

Register Page: This page is where the user will be able to choose a payment plan for the type of service that they want. As well as enter their email, name, password, and any other essential data that will be needed for the registration process. When there credit card is accepted then they will go back to the login page

Login Page: If the user does not have an account with us then they can click on the register button to go to the register page. Here the user just needs to input the username and email to get access to the website.

CDN: Content Delivery Network, a system for delivering pages along a network. This will deliver content based on the users geographical location.

Web User: Authorized user now has access to the different functionalities of video play

Library: User can save their favorite videos and or delete them from their library

Cloud Server:

DYNAMIC MODEL:

//SEQUENCE DIAGRAMS

// captured in Rose (other tools are also allowed)

RATIONALE FOR YOUR DETAILED DESIGN MODEL:

TRACEABILITY FROM REQUIREMENTS TO DETAILED DESIGN MODEL:

EVIDENCE THE DESIGN MODEL HAS BEEN PLACED UNDER CONFIGURATION MANAGEMENT:

REFERENCES:

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