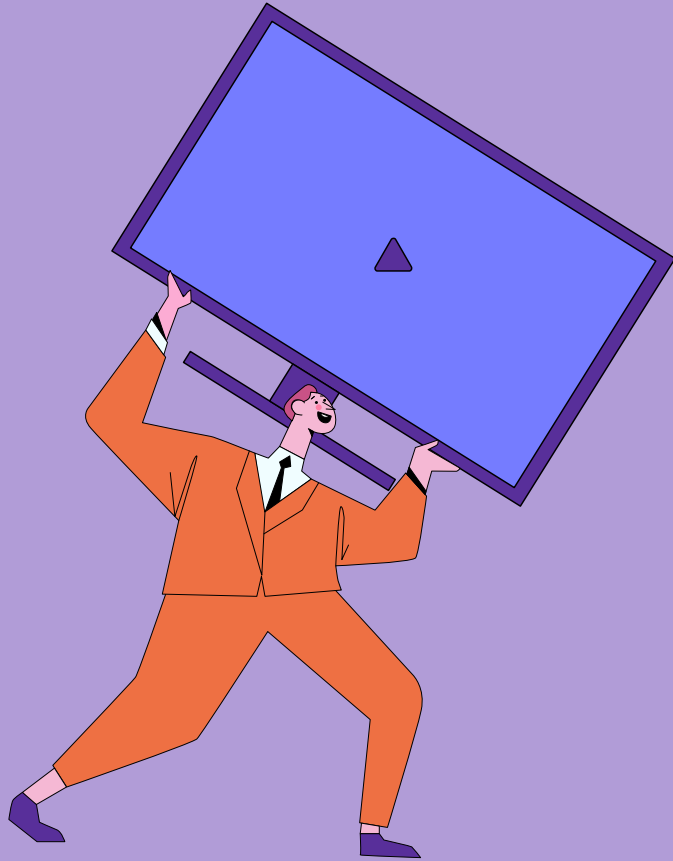


FLIXNET

Project by:
Josh Martin, Matthew
O'Rourke and Riona
Lawless





INTRODUCTION

Our software system, FlixNet, is a streaming service that provides users various tv shows and movies to watch.

Our project is centered around the theme of media.

We used StarUML to create the various UML diagrams and Balsamiq Wireframes to create the mockup of the user interface.

USER STORIES



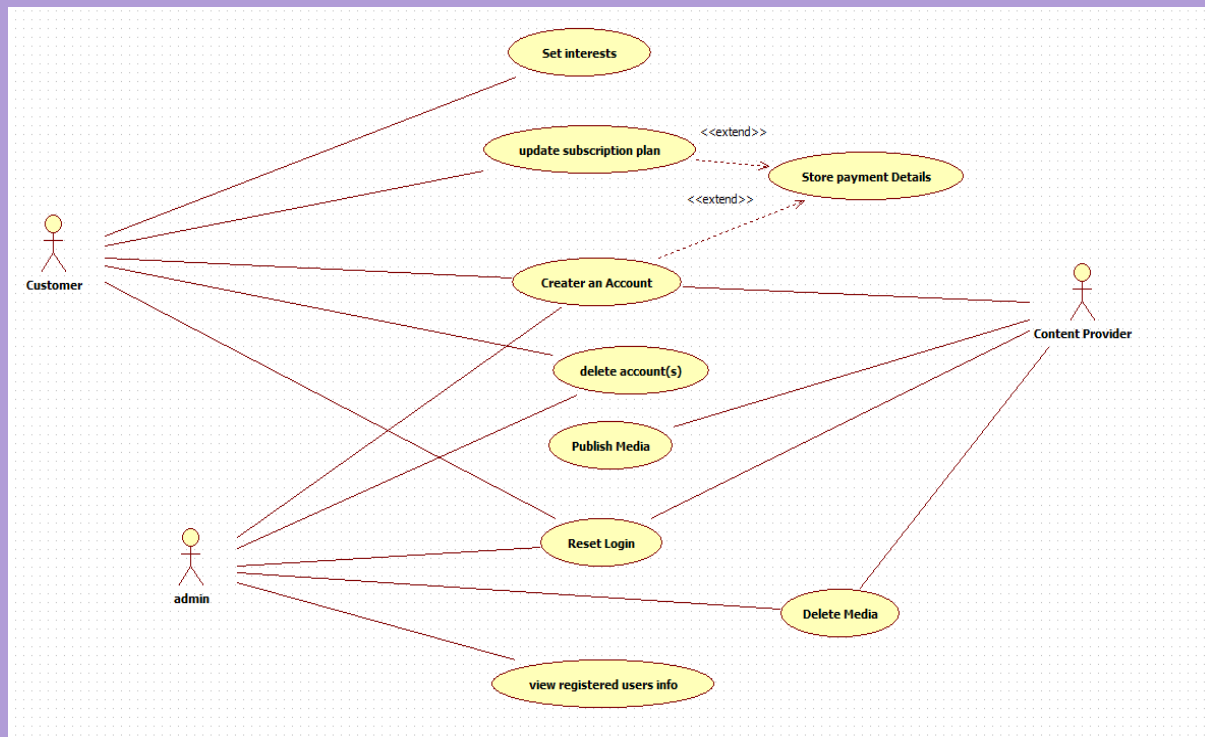
- As a user, I want to be able to **create an account** so that I can use the service. The system should provide a **user-friendly interface** for users to create their accounts seamlessly.
- As a user, I want to be able to **retrieve my login information** when I forget it so that I can continue to use my account. The system should provide a mechanism for users to retrieve their login information when forgotten. This allows users to **regain access to their accounts** without the need for intervention from support staff.
- As a user, I want to be able to **update my subscription plan** so that I can get access to a greater range of features of the service. I should be able to choose between a free, basic plan and a more premium plan without advertisements.
- As a user, I want to be able to **store my payment details** so that I can be charged automatically for my subscription. This will enhance the reliability of my experience using the streaming service as every time I use the service, I can be assured my subscription will be still active without me having to manually renew it. This is a functional requirement.
- As an admin, I want to be able to **remove user accounts** so that I can maintain a **clean and efficient user database**. This ensures greater optimization for active users as well as decreasing security risk from inactive accounts.
- As an admin, I want to be able to **view all user account information** so that I can manage current users. By having a complete overview of user accounts, I can **identify trends, address issues promptly, and make informed decisions** to optimize the user experience. This also allows me to **monitor engagement patterns and identify high-value users**.



- As a user, I want to be able to **set my interests** so that I receive better recommendations. This ensures that the recommendations that I receive are relevant to my tastes as well as enhancing my satisfaction with the platform by showing the content I will enjoy. I will also be more likely to recommend the service to friends if I have a better experience with the content I am provided.
- As a user, I want to **receive recommendations based on my interests** as well as my viewing history. This will save me time as I won't have to go searching far for the content I want to watch as well as allowing me to pick up where I left off on content I haven't yet finished watching.
- As a content provider, I want to be able to **publish new media** on the site so that it is viewable by users. This will allow me to **expand my audience** and **maintain an active presence on the site**.
- As a content provider, I want to be able to **withdraw my content from the platform** so that it is no longer available for streaming. This allows me to **maintain control over its availability for streaming**, whether it's due to licensing agreements, content updates, or strategic considerations.

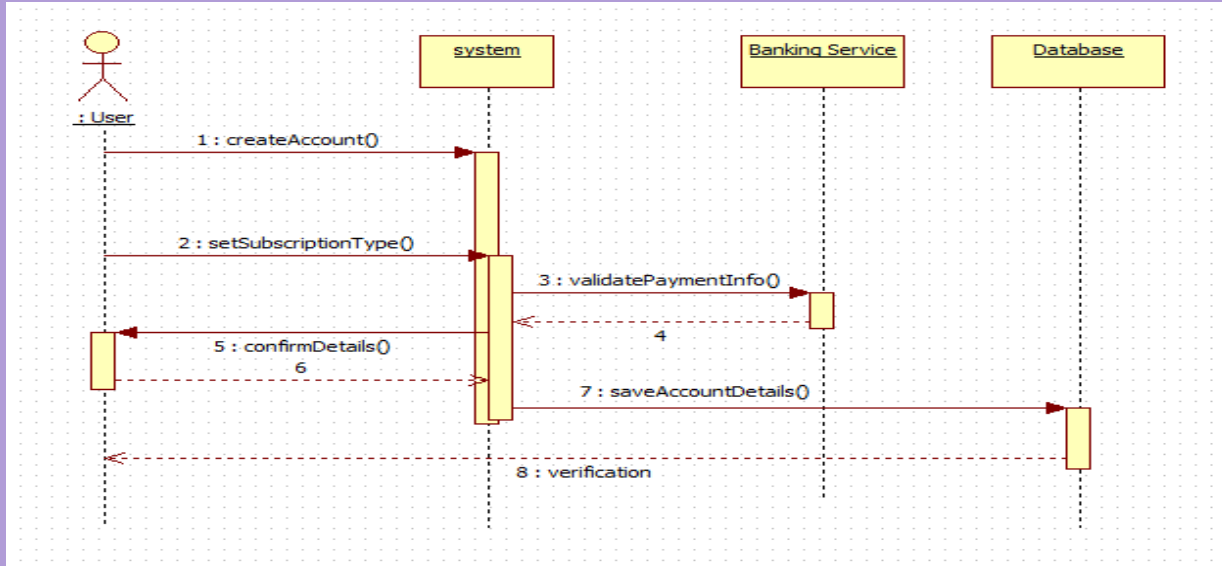


USE CASE DIAGRAM

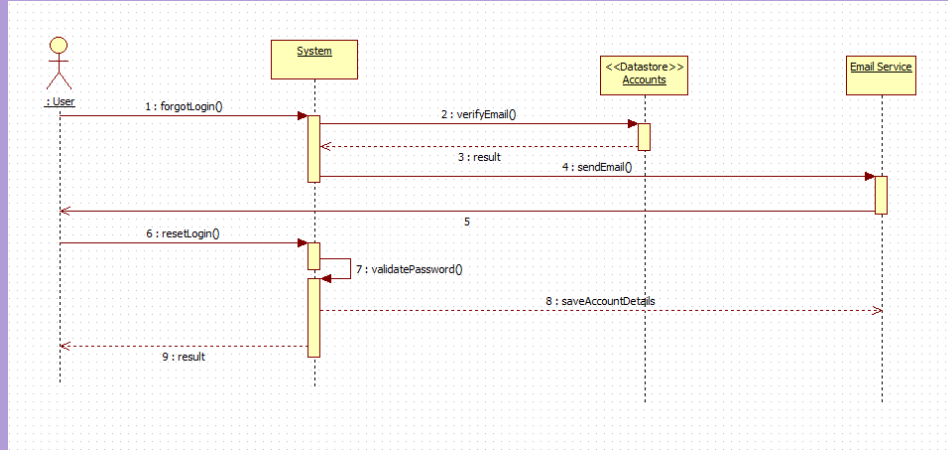


SEQUENCE DIAGRAMS

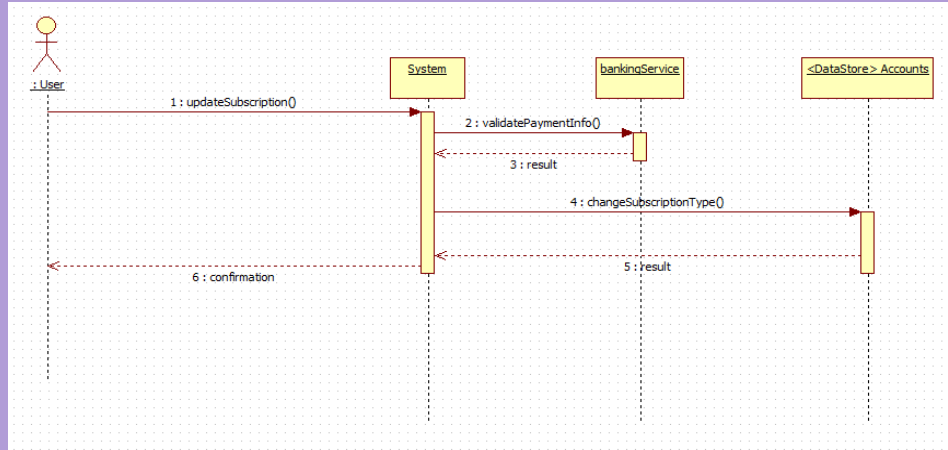
Create an Account:



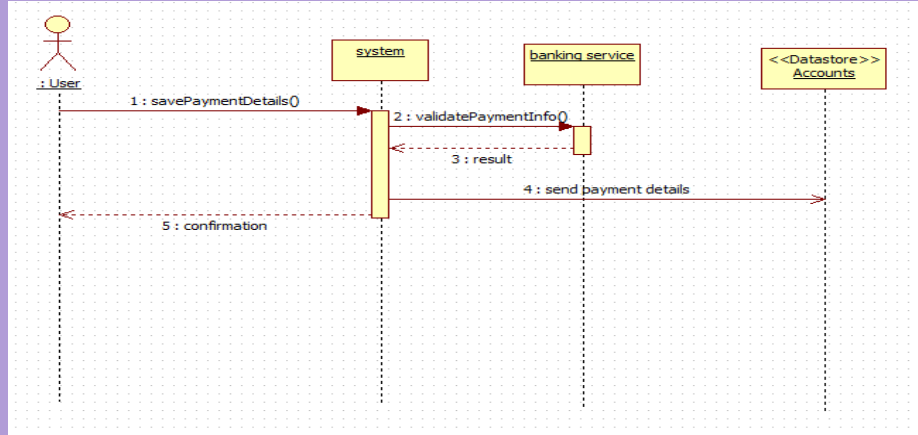
Reset Login:



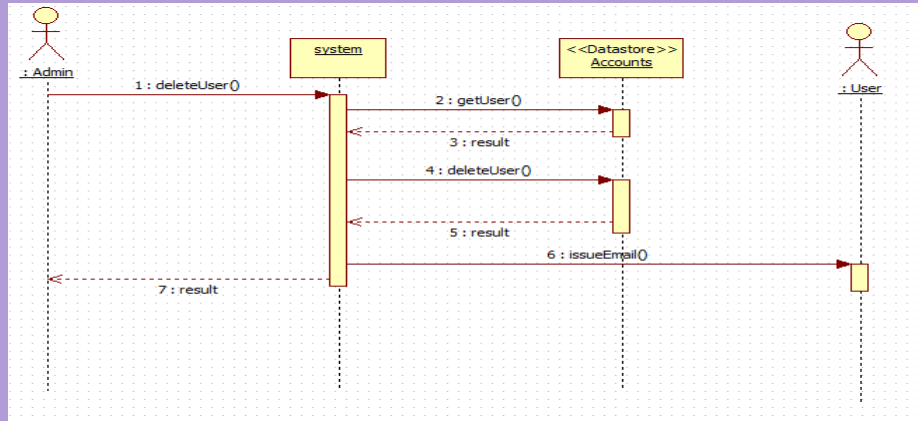
Update Subscription:



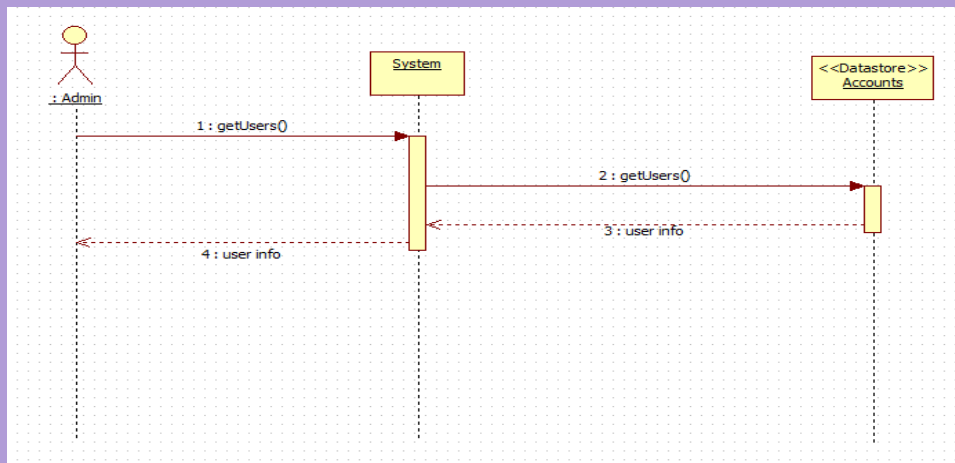
Save Payment Details:



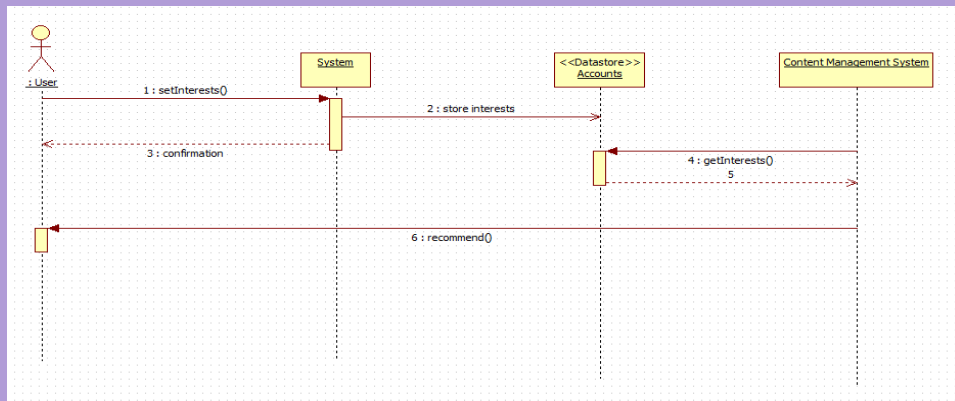
Delete User Account:



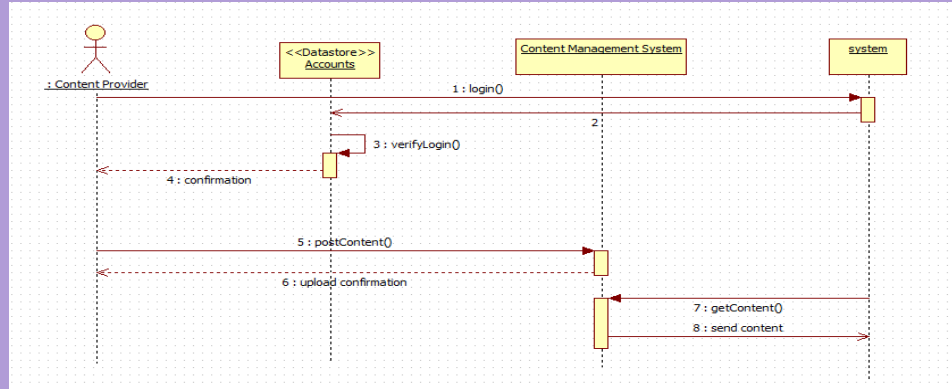
Get User Information:



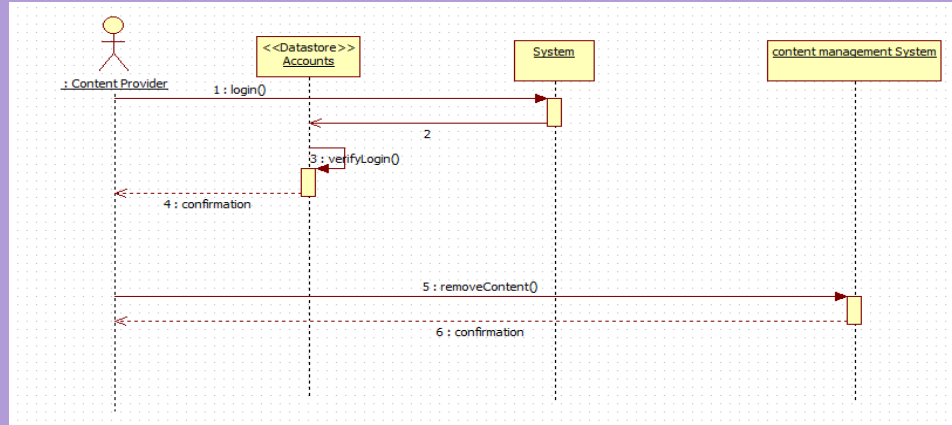
Set Interests and
Receive
Recommendations:



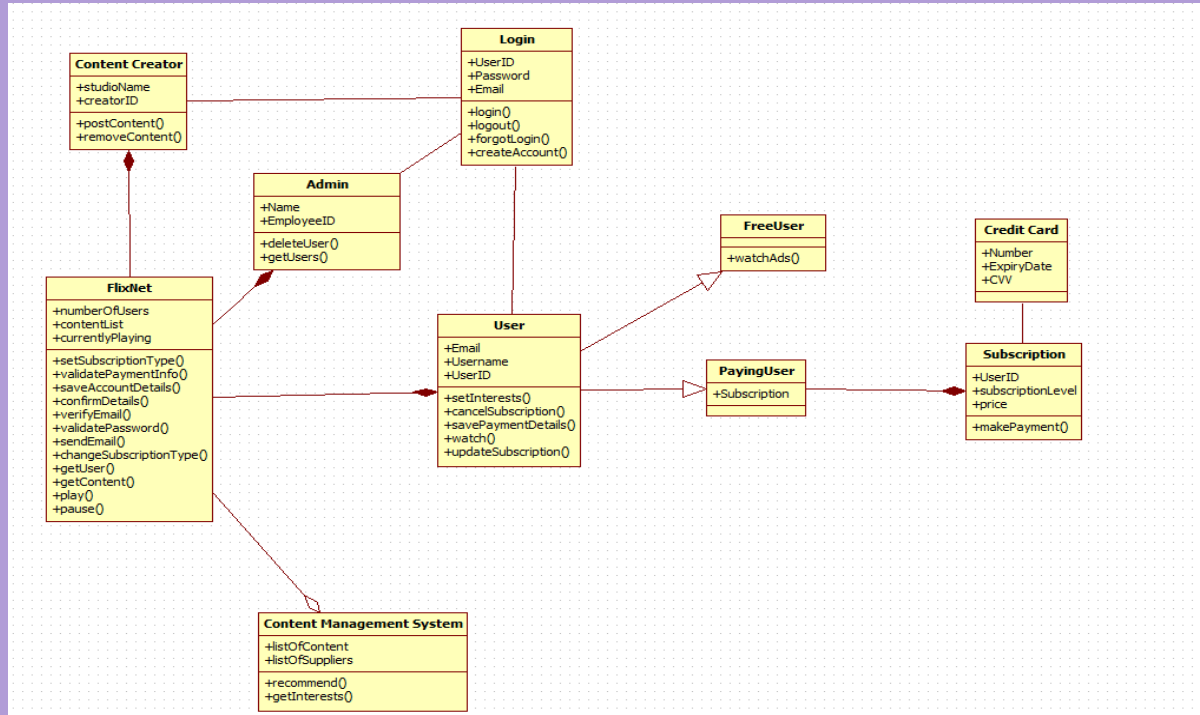
Publish Content to the Streaming Service:



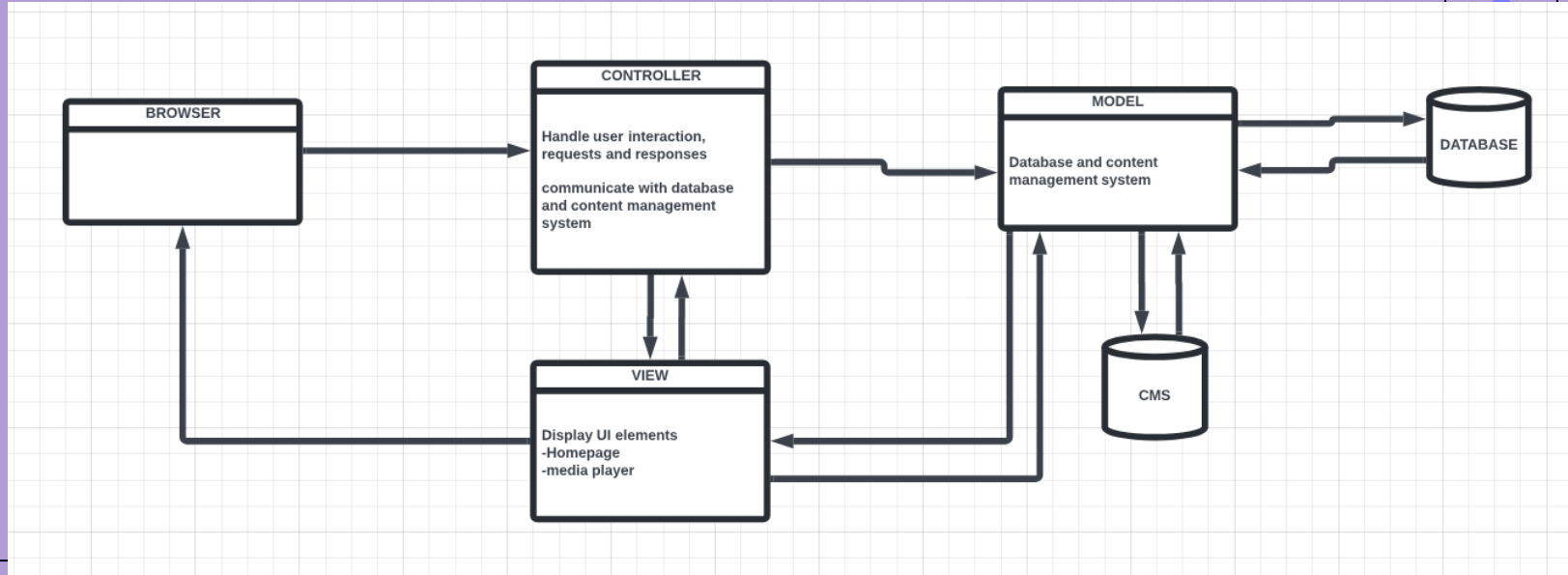
Remove Content from Streaming Service:



CLASS DIAGRAM

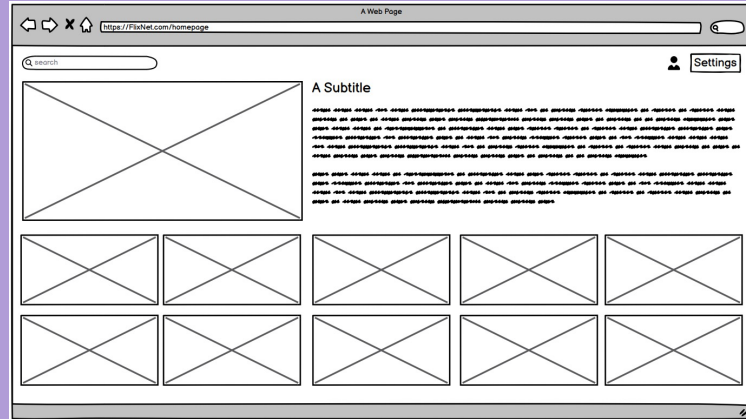
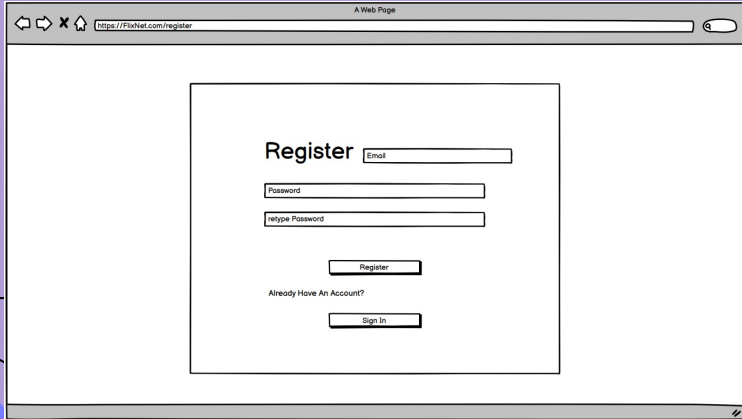
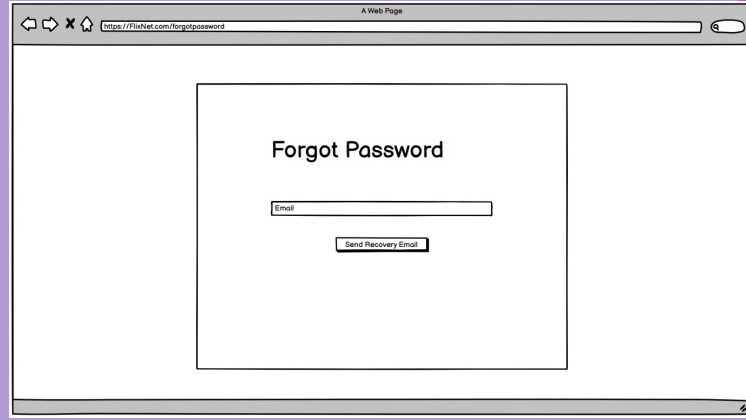
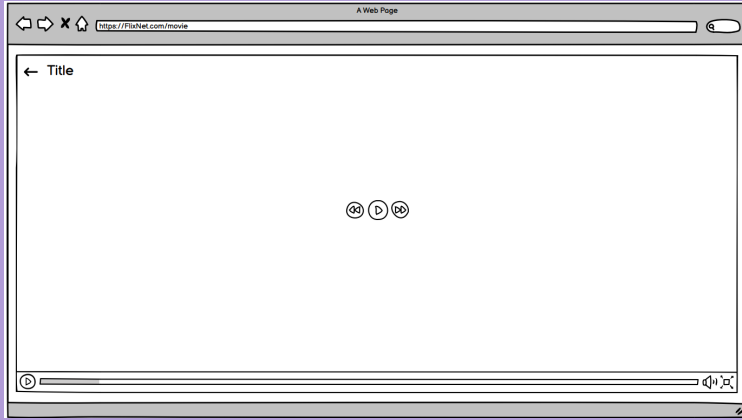


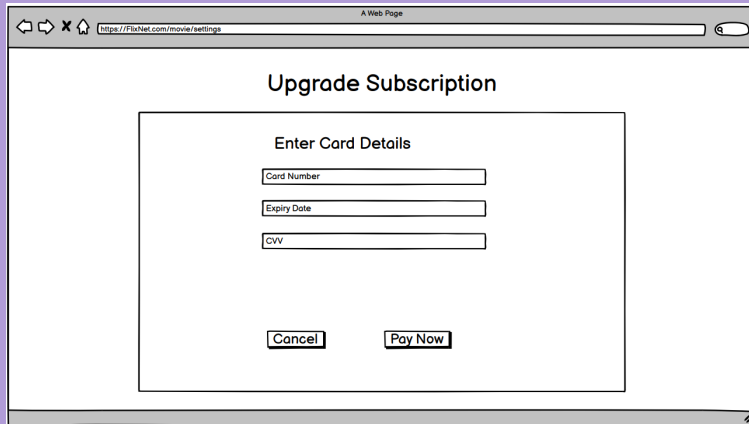
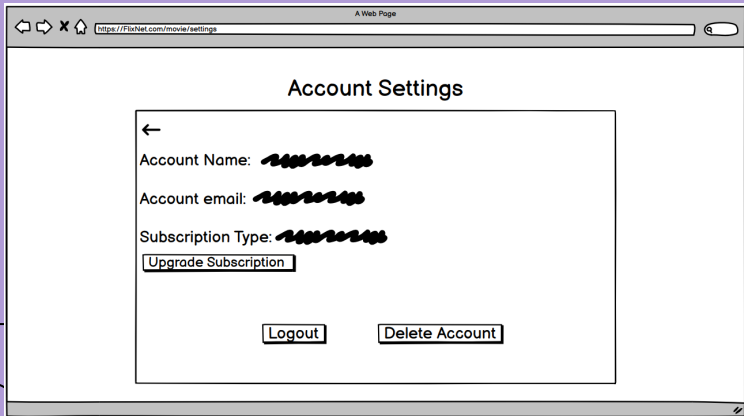
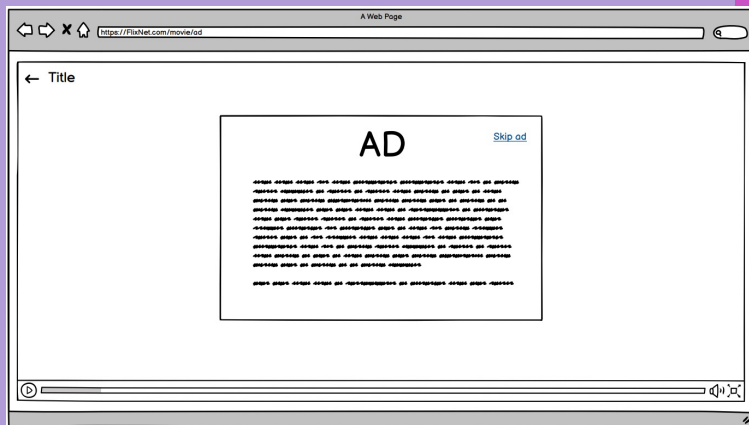
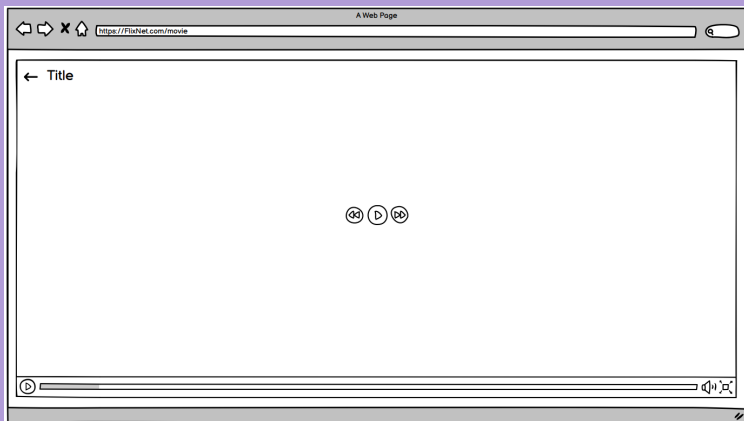
ARCHITECTURE DIAGRAM



MOCKUP




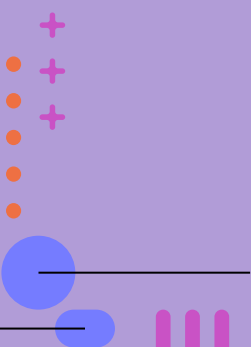
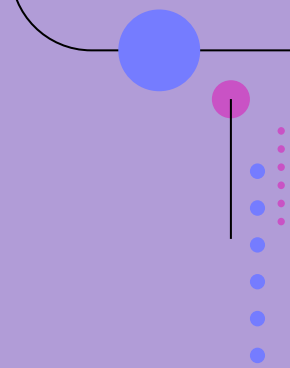
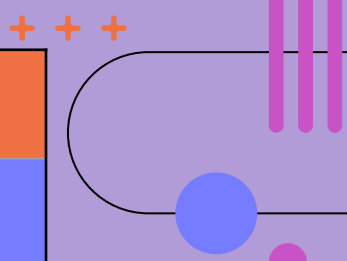





TEST DESIGN

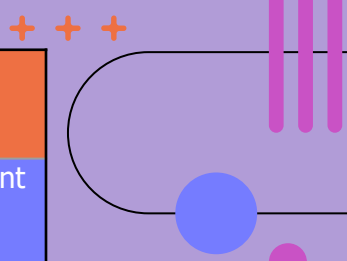


SCENARIO	TEST STEP	EXPECTED RESULT	ACTUAL OUTCOME
Verify that a user can create an account	Provide valid user information on the registration page (email, password, username)	User account should be successfully created, and the user should be logged in.	The account is created, and the user is logged in.
Verify that a user can create an account	Provide invalid user information on the registration page (nonexistent email)	The account creation should fail and notify the user as to why	The account creation fails, and the user is notified as to why
Verify that users can retrieve forgotten login information	Request password reset or username reminder	The user should receive an email with instructions on how to reset their password/ reminder of their username	The user receives an email with instructions on how to reset their password/ reminder of their username
Verify that a user can update their subscription plan.	Enter valid payment details on the 'upgrade subscription' page	The user's account should be upgraded from free to premium	The user's account is upgraded from free to premium
Verify that a user can update their subscription plan.	Enter invalid payment details on the 'upgrade subscription' page	The user should be notified that invalid payment details were entered and be prompted to reenter them	The user is notified that invalid payment details were entered and is prompted to reenter them

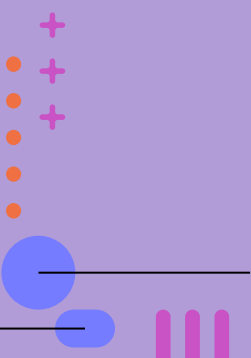
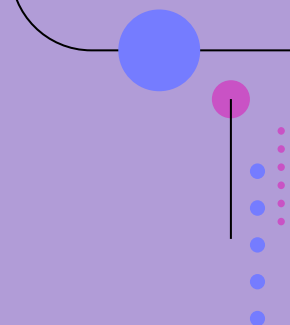


SCENARIO	TEST STEP	EXPECTED RESULT	ACTUAL OUTCOME
Verify that a user can save their payment details to their account	Enter valid payment details and check to box to “save payment details”	Payment details should be successfully stored, and the user’s subscription should be automatically renewed each month	Payment details are successfully stored, and the user’s subscription is automatically renewed each month
Verify that a user can save their payment details to their account	Enter invalid payment details and check to box to “save payment details”	Payment details should fail to be stored and the user should be prompted to reenter their payment details	Payment details fail to be stored and the user is prompted to reenter their payment details
Verify that an admin can remove user accounts	Admin selects a user account for deletion	User account should be successfully removed from the database	User account is successfully removed from the database
Verify that admins can view all user accounts	Access the user accounts details from the admin view	Admin should be able to see all information about users registered.	Admin can see all information about users registered.
Verify that a user can set their interests	Select interests from the account settings page	User interests should be successfully saved to their account	User interests are successfully saved to their account





SCENARIO	TEST STEP	EXPECTED RESULT	ACTUAL OUTCOME
Verify that users receive relevant recommendations based on their interests	Analyze the recommendations provided to a user account and compare with their set interests	User should receive relevant recommendations based on their set interests	User receives relevant recommendations based on their set interests
Verify that content providers can publish new media to the site	Publish new media to the site and check if it is viewable by user accounts	User accounts should be able to view the new media	User accounts are able to view the new media
Verify that content providers can remove their content from the platform	Select the content to be removed and delete it	The content should be removed from the site and users will no longer be able to view it	The content is removed from the site and users can no longer view it

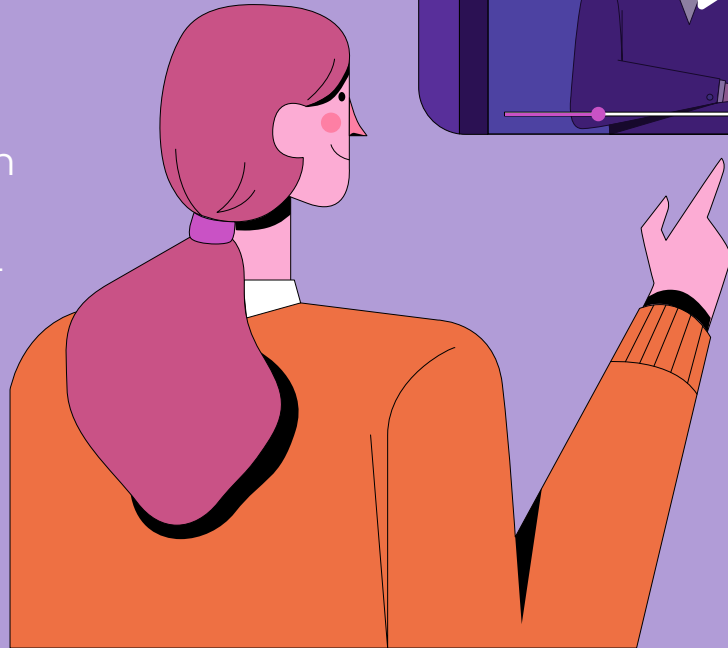


CONCLUSION

Through using techniques learned from the CS335 module, our team was able to design a system and system tests for FlixNet.

We created a comprehensive set of software requirements in the form of user stories, which were then translated into UML diagrams.

Then, we built a mock-up that outlines our vision for the user interface and created system tests to validate the user requirements.



THANKS FOR YOUR ATTENTION!

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