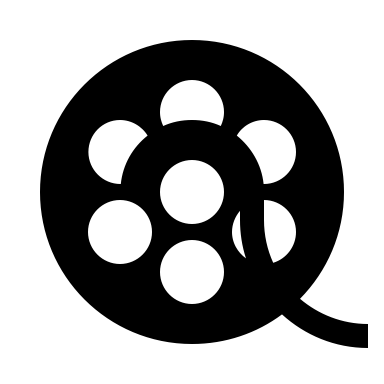
Nodeflix

Project



*Becca Buechle*

*Web 335 – Introduction to NoSQL*

**Scenario:**

Nodeflix is a streaming service that allows customers to watch TV shows, movies, documentaries, and prerecorded sporting events through internet-connected devices. Nodeflix is a subscription-based model, offering its members three levels of access.

Basic

* Unlimited movies
* Unlimited TV shows
* One active streaming connection at a time
* Limited commercials

Plus

* Unlimited movies
* Unlimited TV shows
* Pre-recorded sporting events
* Two active streaming connections at a time
* No commercials

Premium

* Unlimited movies
* Unlimited TV shows
* Pre-recorded sporting events
* Up-to-four streaming connections at a time
* No commercials
* DVR
* Two (2) premium channels

Recently Nodeflix decided to rebuild their application using modern web technologies (Node.js, Angular with TypeScript, MongoDB, and Express). Your company has been contracted to review the existing product line and design a more robust/scalable solution.

**Assignment Information:**

1. Identify the goal(s) of the website
2. Identify the core users of the website
3. Create detailed personas to reflect the top five (5) user types.
4. Identify a list of the top five (5) requirements from the standpoint of a user (Product Owner). Use standard story writing format.
5. Identify at least the top five (5) requirements from the standpoint of a user interface designer/developer. Use the standard story writing format.
6. Create detailed wireframes of the proposed solution.
7. Create business rules based on the identified user stories and wireframes
8. Create an ORD based on the defined business rules
9. Create a Document Model based on the ORD
10. Convert the Document Model to a JSON structure (supply your own default values)
11. Create an Executive Summary/Business Proposal encompassing items 1-10 and be sure to include an

* Introduction
* Any assumptions
* Items in scope
* Items out of scope
* Risks
* Term glossary

**Website Goals:**

1. Main page would tell about what’s new and have a top 10 list
2. Having a search bar so people can find what they are looking for quick
3. Different price points so no matter your income you could afford to sign up
4. Having a kids safe area
5. Create an account – that saves personal info such as, email, name, address, credit card
6. Profiles so each member of the family can have their own list
7. Several different payment methods
8. DVD options for people with slow internet speeds
9. Different resolutions for people with slow or fast internet

**Team Captain:** Rebecca Buechle

**Team Name:** Rainy Day Coder

**Developer Bio –**

Hey everyone my name is Becca Buechle I’m from Texas and I’m currently a senior at Bellevue University perusing a degree as a full stack web developer. I’ve been working in this industry for a little over 3 years now. At a young age my grandfather got me into computers and its then that I learned my love of computer and everything that goes with them. In high school I took my first coding class where I built my first HTML website nothing fancy but I loved being able to toss my friends name and “Hi” up on a website to show off my new skills. From there I continued learning new design skills and building simple web sites for anyone and everyone that needed one and then finally going to college for web design. After college I hope to work for a non-profit building and updating their applications and websites.

**Website Core Users –**

Kids bored and looking for something to watch

Families having a weekend movie night

College students looking to relax

Nodeflix and Chill couples watching movies and chilling

Stay at home moms wanting to watch something while kids are sleeping

Couple watching favorite show

**Top 5 Users Personas-**

Family movie night

Couple watching favorite show together

Kids board after school

Stay at home mom looking to watch something like kids are sleeping

College student looking to relax after a long day

**Personas:**

****

**Name:** Smith Family - Jennifer, Justin and baby Ryan

**Age:** 33, 35 & 3

**Gender:** Male, Female & Male

**Distinguishing characteristics that could impact design:** Justin doesn’t like to have his personal information stored online.

**Feature(s) of application person would use most often. i.e. most important features:** 30 day trial, the Smiths love being able to try something before committing.

**Feature(s) of application persona would not commonly use:** Email recommendation of shows to watch they hate getting tons of emails.

**Needs that application can meet for this persona:** The Smiths are looking for ways to spend more family time together watching kid friendly movies.

**Application skill level:**High skill level

**Motivation to buy from us:** Greatly motivated because of a trial period

**How do you prefer to communicate?** The Smiths love to get snail mail information for billing and specials and such.

**Buying concerns:** Making sure that there is no contract

Name: Jeff and Tyesha

Age: 24, & 25

Gender: Male & Female

**Distinguishing characteristics that could impact design:** Jeff and Tyesha are a couple so they would both need to access one account

**Feature(s) of application person would use most often. i.e. most important features:** Recommendation list and a list of top 10 most popular movies

**Feature(s) of application persona would not commonly use:** The option of downloading shows to watch while traveling and such.

**Needs that application can meet for this persona:** The couple loves watching TV shows together.

**Application skill level:**High skill level

**Motivation to buy from us:** Low price.

**How do you prefer to communicate?** Emails

**Buying concerns:** That the price won’t go up after a few months

**Name:** Angie Bradshaw

**Age:** 7

**Gender:** Female

**Distinguishing characteristics that could impact design:** Young age so needs to be kid friendly and block off things that they should not watch.

**Feature(s) of application person would use most often. i.e. most important features:** Kids section of movies and TV shows

**Feature(s) of application persona would not commonly use:** List of email recommendation on what to watch

**Needs that application can meet for this persona:** Giving her something to watch after school when she is board and being able to download shows to watch in the car

**Application skill level:**Low skill level

**Motivation to buy from us:** Mom and Dad want to keep her entertained

**How do you prefer to communicate?** Emails to parent email

**Buying concerns:** Need to have parent controls

**Name:** Karen Robinson

**Age:** 40

**Occupation:** Stay at home mom

**Distinguishing characteristics that could impact design:** Has slow internet speed

**Feature(s) of application person would use most often. i.e. most important features:** Emails to keep her updated on new things coming to watch

**Feature(s) of application persona would not commonly use:** Downloading movies and shows as she has slow Internet and a data cap.

**Needs that application can meet for this persona:** Needs something to watch while the kids are sleeping so she can have some alone time

**Application skill level:**Medium skill level

**Motivation to buy from us:** Low price point and profiles for each user

How do you prefer to communicate? Email

Buying concerns: Must have new shows or offer live TV options

**Name:** Sam Wilson

**Age:** 18

**Occupation:** Student

**Distinguishing characteristics that could impact design:** Doesn’t have any credit cards yet so she’d need to pay with a Paypal account.

**Feature(s) of application person would use most often. i.e. most important features:** Top 10 list she likes to stay current with what’s hot

**Feature(s) of application persona would not commonly use:** Profiles option, as she will be the only one using the account

**Needs that application can meet for this persona:** Staying current with what is hot and new

**Application skill level:**Medium skill level

**Motivation to buy from us:** Low price since she is a college kid with little money

**How do you prefer to communicate?** Email

**Buying concerns:** Price

**Top five (5) requirements (User)**

1. As a product user, I need an application that will allow me to setup parental controls so that I can make sure my child isn’t watching something they shouldn’t.
2. As a product user, I need an application that will show me a list of top movies currently so that I can stay current on what’s popular.
3. As a product user, I need profiles so that our family can have separate saved list of what they are watching.
4. As a product user, I need different payment options so that I can setup my own account with the payment method I have.
5. As a product user, I need to be able to have more than one user watching at a time so that my kids can watch something as so can I at the same time.

**Top five (5) requirements (interface designer/developer)**

1. As an interface designer/developer I need to create a way for parents to have parental settings so that the product user can lock their kids out of things.
2. As an interface designer, I need to create a way for customers to search for things so that they can find what they are looking for quickly.
3. As a developer, I need to create a database that stores customer information as well as their watch list so that the product user can log in and see current watch list and update personal information.
4. As a developer I need to create a way for the product user to see a what’s new and top picks so that they can stay current on shows and movies.
5. As an interface designer I need to create a layout that is easy for people to understand so that the product user can find things easily.

**Wireframe (based on user stories)**

**A close up of a map

Description automatically generated**

**Business Rules (based on identified user stories and wireframes)**

1. As a product user, I need an application that will allow me to setup parental controls so that I can make sure my child isn’t watching something they shouldn’t.

* A user can implement many parental controls
* Each child account can be limited by many different controls

1. As a product user, I need an to be able to save titles to a watch list so that I can go back to them later.

* A show/movie has a title
* A show / move has a description

1. As a product user, I need profiles so that our family can have separate saved list of what they are watching.

* An account can have many users
* Each user can watch many different shows or movies

1. As a product user, I need different payment options so that I can setup my own account with the payment method I have.

* There are many different users
* There are many different payment methods

1. As a product user, I need to be able to have more than one user watching at a time so that my kids can watch something as so can I at the same time.

* There are many families with more than one person
* Some users need to be able to watch on several devices at one

**ORD (based on business rules)**

**A screenshot of a cell phone

Description automatically generated**

**DOM (Document Object Model)**

**A screenshot of a cell phone

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**JSON structure (DOM to JSON)**

**A screenshot of a social media post

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**(continued below)**

**A screenshot of a cell phone

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**Data Queries and Delivery:**

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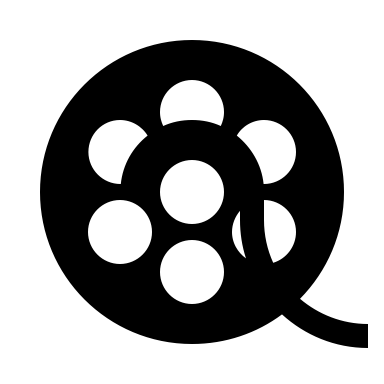
**A screenshot of a social media post

Description automatically generated**

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Description automatically generated**

**Executive Summary:**

Nodeflix Executive Summary

**Introduction:** Nodeflix streaming platform has more movie and tv shows on it than any other movie platform out there. Now you have a reason to stay at home instead of going out! Nodeflix is in need to revamp their website so help meet the needs of their customers so they can keep them entertained no matter when or where they might be.

**Need:** Nodeflix is revamping their website and needs to home in on what their users are really wanting from their streaming site so they can continue to keep their high number of customers. Having a steaming service that allows multiple users the option to watch on separate devices is important as well as having the most current movie titles and tv shows. There is also need to make sure the little ones stay out of the higher rated content as well.

**Solution:** Here at Rainy day Coders, we excel in application redesign that will fit the needs of the client and user. The main page of Nodeflix’s application will feature a list of popular movies and shows as well as the selected user’s currently watching list. The user will also be able to select different genres and see their top lists as well. One the application redesign is complete, the application will have a area for parents to go and setup parental controls as well so that they can keep their children in approved movies and shows only. Lastly, there will be options to setup user accounts so that an account can have more than one user. Under these options there will also be a list to setup different payment methods as well. All of these solutions will allow your customers a much easier viewing process.

**Evidence:** At Rainy Day Coders, we have over five years' experience building and customizing applications for hundreds of clients over the years. User profiles, searches, payment options, list sorting, and figuring out what your clients are really wanting from your applications are only a few of the things that we specialize in. That means that we are at the top of the API and application design field. We are always learning so that we can stay on top of ever-changing technology world. We are always looking for ways to improve the look and structure of each of the features we design. We were able to help our last client take their failing application and turn it all around once we were able to redesign the application so that it met the needs of their clients and team members. We come highly recommended by other companies that we have worked alongside because have all seen a great increase in customer retention.

**Call-To-Action:** We enjoy working with large and small companies that are looking for ways to expand the business's customer base as well as increase their revenue. But also, a company who is still worried about taking care of their customers before anything else.

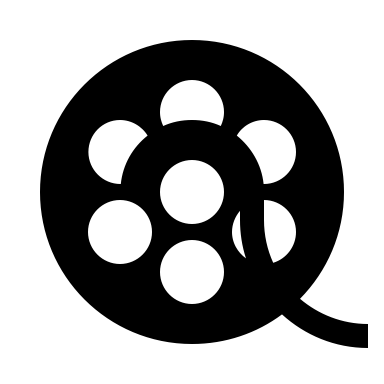
If you're ready for growth in both customers and sales, we're prepared to help! So, let us help you make your customers movie night a little bit better!

**Work Estimate:** This project will take the team member assigned to the project about eight weeks to complete Once we have received all the necessary information from Nodeflix, the project will take the appointed team members about eight weeks to complete.

Once finished, Nodeflix will have a fully revamped application with many features that will benefit both the owner and the customers. The application will feature a most popular list, a way to sort by genera, payment options, user accounts, and a way to setup prenatal controls.

**Pricing:** At $80/h x 8h a day x 5 days a week x 8 weeks, Nodeflix is looking at an estimated total of $25,600. That is the price for one team member to work on the project. That price may go up if we need to bring more team members on to help with the project.

**Proposal:**

Nodeflix Job Proposal

**Who We are:** At Rainy Day Coders, we always have the latest training in our industry so that we can stay current with API and application practices and client and user security. We have a team of 7 members that are always striving to be the best in the industry. We try to go above and beyond in finding the best way to solve our client's wants and needs. We also excel in client and user security so that both are always as safe as they can be. We come highly recommended by all our past clients, as you can see with our 5-star rating on Yelp.

**The Need:** Nodeflix is revamping their website and needs to home in on what their users are really wanting from their streaming site so they can continue to keep their high number of customers. Having a steaming service that allows multiple users the option to watch on separate devices is important as well as having the most current movie titles and tv shows. There is also need to make sure the little ones stay out of the higher rated content as well.

**Solution:** Rainy Day Coders plans to create an application that will allow customers to see what’s currently most popular with a top 10 list, a way keep children safe and out of things they shouldn’t be watching with parental controls, several payment options, as well as a way for have multiple user profiles and users watching things on more than one device. The application design will be a custom design so that their site doesn't look like every other streaming site out there. We will also setup security so that both the user and client’s data and information are safe.

**Risks:** Whenever redesigning any sort of application the client always takes the risk of upsetting their clients because the new design is different than the old one. While it is Rainy Day Coders best intention to make the application much more user friendly, we can’t always guarantee that will be the outcome. However, we will work with you to make any needed fixes that might come after publication.

**Items in Scope:** Revamping the application, figuring out what the client needs from the application, security, designing user profiles and payment options, lastly parental controls.

**Items out of Scope:** No trouble shooting of items that we have not touched with our application revamping. However, if a client or user runs into an issue with something that we have worked on causing issue we will be more than happy to help trouble shoot that. Also, we do not do any kind of hosting.

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**Assumptions:**

I only made a few assumptions about this assignment, the first one being that this was going to be an easy assignment because I had done all the working parts before in class. However, after being away from some of the items for so long I totally forgot how to do them, so I had to go back a lot and see how to do them again. Second assumption I made was that I could get the project done while moving with no issues. I’ve spent many long hours trying to play catch up and get the assignments done.

**Term Glossary:**

API – Application Programming Interface

DOM – A Document Object Model is a programming API document. The model closely resembles the structure of the documents model. ( Robie, J., & Texcel Research.)

ORD – Object Relation Database

JSON – JavaScript Object Notation

**Bibliography**

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