

Developing Move Y Splash: A Social Media Application

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1 Introduction

Many people have been using social media applications such as Facebook, Snapchat, Instagram, X, and new unheard social media applications never seen before. As many of the applications keep getting boring and boring especially for younger generations, modern more intuitive social media applications should appeal to people looking for new and expressive user experiences no one had even experienced before. Liquid design user experiences like one seen in AppleOS 26 family amplified the need of disruptive social media applications never seen before.

Modern social media applications with new design and expressive language tackles challenges young people face with traditional social media applications. By changing way how people experience messaging, posting and social media, competitors can get innovative and web can transform in modern environment.

Modern day social media application can help competitors and software makers build apps for mid 21st century in disruptive and unexpected ways. The approach of new visual effects can also transform how people socialize in enterprise world and for fun. This report explains how new social media apps should be designed in rapidly evolving digital environment so people can experience fun while interacting with people digitally.

1.1 Scope and Motivation

This report focusing on next generation social media application in liquid by design era. It reviews several approaches to modern design and future of social media applications so it can determine most effective approach to next generation user design for social media applications.

Traditional social media applications have been boring and not updated for modern era. In today's new world of user experiences, applications must be upgraded to meet the demands of a modern consumer. Many people believe they need modern looking designs on their applications and the way they use modern social media applications.

1.2 Problem Definition

Many iGen humans are drawn to the potential benefits of modern, faster, more innovative ways of socialization in today's digital world. Today's world also involves in era of new designs like AI, liquid glass and new experiences in social media experiences.

This app development project focuses on the creation of a next generation user experience to make social media application whole lot of fun to use for people who grow up with Zoom and face time in their teenage years. The primary goals include maximizing fun, new experiences users never experienced before while having fun with friends online.

The difficulty comes from navigating boring aspects of socialization in digital world. Furthermore, it's very important to strike a balance between innovation we can't expect in existing applications and modern effects of socialization online.

Addressing this challenge entails developing a design strategy that takes innovation and fun experiences into account. This study will look at how modern design techniques and new experiences makes social media applications exciting for young generations. The ultimate goal is to build next generation class of social media applications that young users love.

This problem definition establishes groundwork for investigating the complex relationship between the modern design and how to innovate social media applications. It discusses more on how modern innovation would make it attractive to younger users.

1.3 Project Objectives

The project focuses on innovative design of social media application called moveYSplash which focuses on modern looking design. It offers in depth analysis on how to innovate so people get experience they can't get on Facebook, Instagram, WhatsApp and SnapChat such as desktop class screen sharing. This report aims to identify barriers and what needs to be done to better build an application no one has ever built in the past.

1.4 Project Contributions

The significant contributions of this project stem from its commitment to modernizing user experience, delivering innovative social media experience and ensuring continuous innovation:

- **Establishment of Next.js framework:** Used Next.js framework to ensure consistent user experience across multiple screens. Impact: Improved overall user experience, laying the groundwork for more seamless data exchange and more efficient cloud resource allocation.
- **Video Chat integration:** Created most efficient video chat platform with advanced screen sharing capability. Impact: Enables easy access to messaging and video calls no other applications can replicate.
- **Real-Time Chat availability:** Added ability to send or receive messages which is actually powered by . Impact: Makes it easy for chat message and history to be saved so people can remember past chat history as well.
- **Advanced screen sharing:** Modern screen sharing for socialization and collaboration. Impact: Allows people to show their laptops screens while working with others remotely.

These collective contributions make a significant contribution towards the goal of modern social media application. This project has a long-term impact by seamlessly integrating modern video chat and screen sharing capabilities, addressing the changing needs of users in a modern socialization environment.

1.5 Project Organization

The project is organized as follows: Chapter 2 covers the abstract of the social media application. Chapter 3 explains various features of how it helps in achieving the changing needs of digital socialization. Chapter 4 focuses on a summary of the project report

2 Background and Related Work

//This section provides an in-depth analysis of how modern design of new social media applications makes it easy for new generation of users to have fun socializing with peers as well.

The modern approach to new design is very important to getting new generation of internet users who are fed up with old experiences facebook, instagram and various social media applications were offering in the past. When users get bored of socializing on dated social media applications, they lose interest and want to try something new like many teenagers are more interested in snapchat because its whole lot of fun. With modern effects, socialization on digital devices becomes exciting and fun for people to use and enjoy. Innovative experiences can make social networking more exciting such as screen sharing, for example you want to shop online with people, you can screen share online shopping page. You can also watch movies together with your friends in future. Modern effects and design is very important to moveYsplash future.

Innovation is very important for social media applications in 21st century. The goal is to drive innovation quickly in social media space rather than create boring applications people are tired of using. Quality innovation and design improvements can drive new users to your platform even though you can't please everyone.

2.1 Design System: Big Picture on how design, and innovation plays in modernizing social media

This report presents a modern design and innovation architecture as a transformational approach to enhance excitement with new social media applications throughout new designs, modern look and feel as well as new innovation that can be done at the speed. Next generation design and innovation architecture allows social media companies to quickly innovate their applications faster than what has been seen in the past. With younger generations of people being fed up with previous generation of experiences, Modern design and Innovation architecture is becoming vital in new computing designs as well as new Operating systems such as iOS, iPadOS, watchOS, macOS and tvOS thanks to power of modern hardware and graphics capabilities. This paper examines benefits and challenges in Modern Design and Innovation Architecture (MDIA), such as liquid glass, innovation at speed, problems with older hardware and how it excites younger generations of people.

Modern Design and Innovation Architecture brings next generation of user experiences people have never experienced before to devices people love to use such as smartphones, tablets, laptops, desktops and so on. This approach makes it easier and faster for business to innovate quickly in social media applications and get more young people to try out new apps people use. However not all devices are compatible with Next generation of user experiences for example, tvOS 26 does not provide liquid glass design for apple tv 4K 1st generation and apple TV HD. Some devices cannot tolerate modern generation of new user experiences, for example, majority of intel macs are not upgradable to macOS 26. Sasinski, 2025.

This report highlights key challenges in implementation of MIDA in older devices as not every device is capable of next generation of user interface especially with people who prefer to keep their existing devices until it breaks. Apples decision to move their latest operating system with liquid glass made apple cut support for older apple devices like iPhone XS and most intel macs. Apple even warned that next years release of macOS 27 would only work on apple silicon devices because of higher than usual demands of apple intelligence and next generation user experiences. There are many people who are excited to use next generation user experiences, but couldn't do so because of older hardware can't work with new operating system. Transparency effects only apple could innovate and design can use up alot of GPU and CPU horsepower which drastically slows down older devices as well. Additionally its very important to find ways to reduce memory, cpu, and gpu usage as well as look for opportunities to bring next generation innovative user experiences to older devices as much

as you could to help get app developers to innovate in social media applications.

This report identifies key challenges associated with implementing MIDA with various groups. Public perception of liquid glass is number one concern and no one can please anyone with any kind of redesign. Pleasing everyone has a very long term risk especially when other competitors might try to build modern designs that won't solve any problems. Translucent design can make items a bit hard to read leading to apple having to come up with certain design options for their customers since iOS 26.x had came out. MIDA is not designed to please everyone in short term, its designed to enable future innovation quickly in 21st century for long term. Modern user experiences are stronger for longer term innovation, and its very important to ensure they are usable. Clover, 2025.

The report presents a comparative analysis of Modern Innovation Design Architecture and how its implemented to fast track innovation we have never seen in 21st century. MDIA is totally designed for modern demands of 21st century and its very important to pay clear attention to translucent effects of the application. MDIA is a policy framework for application developers to design and modernize their applications for 21st century. Unlocking innovation is the key to modernizing how social interactions work.

The role in MDIA is emphasized in how liquid class and modern effects brings absolute new designs in 21st century modern day applications we have never seen before. New form factors like foldable devices and zero bezel all screen devices support MDIA thanks to how liquid glass was throughly built. In all screen laptops with no keyboards and paper thin designs, next generation user design is extremely important to power future ready experiences, smart glasses, zero bezel devices and so on. If a device is all screen, you need modern generation user experience so people know where to charge their laptop, phone or tablet, how to power on their devices and how to interact or troubleshoot future ready form factors.

Despite its benefits, MDIA proposes brand new liquid designs for power buttons, camera, volume, liquid grade ports in a paperweight designs and new hardware for the 2030s. Existing design architecture makes it harder for companies to develop successful foldable laptops, devices with complete screen and zero bezels. This had lead apple waiting until liquid glass is rolled out this year before going all screen on smartphones, tablets and laptops for 2030s. This paper proposes liquid glass effects when it coems to charging, managing and powering on or off future buttonless all screen devices. This paper proposes new standards for modern design and innovation architecture for the future of technology such as iPhone 20 and future apple devices, pcs and laptops. Additionally, this paper emphasizes how we can design interfaces for era where webcams are hidden underneath the display including facial recognition scanners. Gurman, 2025.

The report concludes that Modern Design and Innovation Architecture (MDIA) is a crucial solution for future ready social media applications, and modern next generation of technology, outperforming traditional user experiences through liquid glass effects and new methods of troubleshooting and powering on or off the system. While MDIA is the future, MDIA is more suitable for modern form factors users have never experienced before. Future operating systems must select MDIA in order to make next generation of full screen devices, paper thin devices work well with users.

2.2 All one needs to know about future hardware designs and paradigms of Modern Design and Innovation Architecture

The report explores the challenges of designing next generation paperthin devices with no bezels, and only all around screens, highlighting cons of new technology designs of the future, such as how people would turn on, off, charge their devices and so on. It discusses how glass effects provide feel of physical keyboards, volume switches, turning on or off hidden front facing cameras, powering on or off new devices and taking pictures. The paper compares futureistic devices with modern design and innovation architecture, which focuses on how people are able to turn on, off, interact with those devices and enjoy them.

The report outlines number of design paradigms that have evolved to address various hardware requirements. Futuristic hardware design provides paper light device with full screen capabilities and is fully designed for the needs of smart googles and unheard devices. With new liquid designs, its easy for individual to power down smart glasses. Its also easy for someone to turn on their smart glasses with simple power button if a individual wears smart glasses to do stuff on their computers. If you have a liquid keyboard and you are typing on a all screen design laptop, you would want to have a liquid feel similar to a real world keyboard while working on a foldable laptop. If you are turning on a foldable laptop, you would want to notice that a laptop is on with a liquid feel. If you are charging new device, you would need to know how and where to charge your device as plugs would be invisible when designing all screen devices. People would like to have better privacy when it comes to preventing hackers from watching them while on a computer. This is why we need a smart approach to webcam security that can enable users to turn off with specialized buttons while webcam is underneath the display. Liquid mouse provides modern mouse feel while allowing user to interact with a computer with a glass effect. Its very important for future device form factors to support liquid mouse because people need to be able to interact with future device form factors. Liquid mouse must have a feel of trackpad while being able to interact with various applications. Back facing cameras should be redesigned with liquid camera which automatically determines what type of camera individual is using while taking photos for example, if you want to take ultra wide picture, its ultra wide camera, regular picture, regular camera, telephoto picture, telephoto camera. It must have advanced LiDAR scanner to help visualize objects in AR driven world as well. If in any case some components fail to work, There are always going to be drawbacks and we have to design specialized repair toolkits to make sure those functions always work properly and effciently including charging components. Its time that companies take challenges into consideration before designing new form factors

This report emphasizes the strengths and weaknesses of futuristic hardware design. While liquid class and MDIA is the foundation of futursitic form factors, hardware repairability is a big challenge when it comes to all screen designs with hidden webcams and zero bezel displays. Design standards such as liquid effect buttons, trackpads, speakers, and so on are the core foundations of next generation of computing.

2.3 Report on MDIA and applications

The rapid advancement of information technologies has led to the emergence of MDIA for web applications, a building blocks to supporting MDIA compliant OS's like macOS 26 for now and the new form factors of tomorrow. Application design also requires taking advantage of next generation of devices and smart glasses, where more and more people will be using it by mid to late 2030s Design of the modern application have to follow through MDIA principals in order for companies to be ahead of the game.

MDIA Applications like moveYSplash uses modern effects and is designed for innovation of the 21st century It also uses translucent effect when it comes to turning features off or on. It also have a glow effects and splash effect when person clicks on a button of a application. It also unlocks more doors to innovation we have never seen before and enables app makers to design applications for new user experiences and new form factors like smart glasses. New design capabilities have to expand to android and other operating systems in order for applications to design for MDIA. G, 2025

The integration of MDIA with new form factors introduces several challenges. First, only apple was able to come up with new liquid glass design effects, and it can pose challenge for Microsoft, Google to compete with liquid glass design for their platforms. In order to develop fully functional web applications with splash effect, we desperately need a new framework called liquid.js something that has to be built to enable easy development of a liquid design and MDIA compliant websites and web applications. MDIA compliant web framework must support how websites and applications work in future ready device paradigms that will likely be the norm in 2030s. MDIA compliant programming

languages must be developed to enable true liquid glass designs with translucent effects that no one has ever experienced in the past. We have to design modern CSS frameworks to enable translucent social media applications and OS frameworks to enable OS vendors to design liquid class compliant operating systems. There has to be a structural change in how application development occurs before implementation of MDIA.

The report highlights insights from current research, noting that while MDIA makes applications exciting, it requires structural design changes for programming languages, operating systems and how people interact with their devices. It offers further review on addressing challenges in getting more web applications to use MDIA and design for futureready devices. The authors suggest that future research should focus on development of new java script frameworks, OS development frameworks in order for applications to be fully designed for MDIA.

3 How Move Y splash is designed

This report explains how we design the application and the challenges we face when it comes to building a modern social media applications without proper frameworks and programming languages necessary to enable true liquid glass effects on the social media platform. The explanation of the indepth analysis is shown below:

3.1 Description of Frameworks it used

This report evaluates frameworks we used to build the moveYSplash application. The analyzed frameworks is Next.js, SuperBase database, and tailwind.css. These frameworks may have helped design the applications, but we need more research in designing new programming languages in order to help get the MDIA out to every community and in every operating system as well as every website before futururistic technology of the 2030s come out in the market.

3.1.1 Next.js

The next.js is designed for modern web framework of the 21st century. It's designed with high quality optiomization, react server so you do not have to send additional client side javascript and is most trusted react framework. Next.js improves development efficiency by enabling the backend in the front end so developers don't have to design separate backends. Next.js allows faster load times on certain blogs, profiles and more so people can get instant access to social media applications. What enables fastest load times on any website is the power of the Server Side rendering designed to improve the performance of the application especially when the traffic would spike. R, 2025 Next.js also enables futureproofing for the application's future needs and designing the application for tomorrow faster requires the use of Server Side Rendering because building it on react requires both server and client development which makes it harder to innovate without any bugs or errors. What has been learned is that quick development of future use cases needs to rely on Next.js because its very difficult to use it for client and server based deployment with react and express technology. Next.js is also designed for the development of 21st century applications, and is designed for future ready innovation.

3.1.2 Supabase

Supabase is a comprehensive database used for faster and more responsive storage of individuals social media records on moveYSplash social media application. With explosive growth in social media usage, its important for moveYSplash to use supabase because its easier to push changes including logins, passwords and anything a member posts to their profile quickly and effciently. Supabase database is powered by postgres database technology designed for reliable, secure storage and maintainence of sensitive data. We also used superbase to ensure smoother story experience and ensure expiry works smoothly as well. Supabase is designed for building database applications quickly and driving innovation flawlessly at fastest speeds unlike other applications. It's also designed for new and emerging applications built on MDIA architecture.

3.1.3 Vercel Deployment

Deployment of the application on vercel has been the top choice for the moveYSplash because other development tools have longer deployment times. The only hosting platform with shorter deployment time is vercel because if you use git hub and push changes to the app, it will load on vercel quickly. Vercel is the only web deployment platform capable of supporting Next.js flawlessly without errors or webpage crashing. Vercel has been most trusted hosting platform for companies that push innovation

quickly like Notion, and Sonos. Decrease in build times allow quicker innovation at unprecedented speeds like never seen before in modern social media applications.

3.1.4 Ably

Ably is also designed for powering realtime chat application in moveY splash. If we use ably, it just enables lower message sending latency, and is more reliable so people can trust moveY Splash in order to chat, and build a modern application for 21st century. Ably chat also enables users to receive messages someone else has sent in reliable manner as well as new functionality with chat application for tomorrow. We can also use Ably to guarantee seeing everyone elses webcam flawlessly. Only ably is designed to guarantee flawless and reliable social media messaging experience. Stichbury, 2024

3.2 Architecture of the application

In this section, there is a big discussion about how the application works and how moveY splash is designed and developed with the power of ably chat application which enables flawless messaging, supabase which enables flawless database and speedy innovation. The following diagram illustrating the application would be shown below:

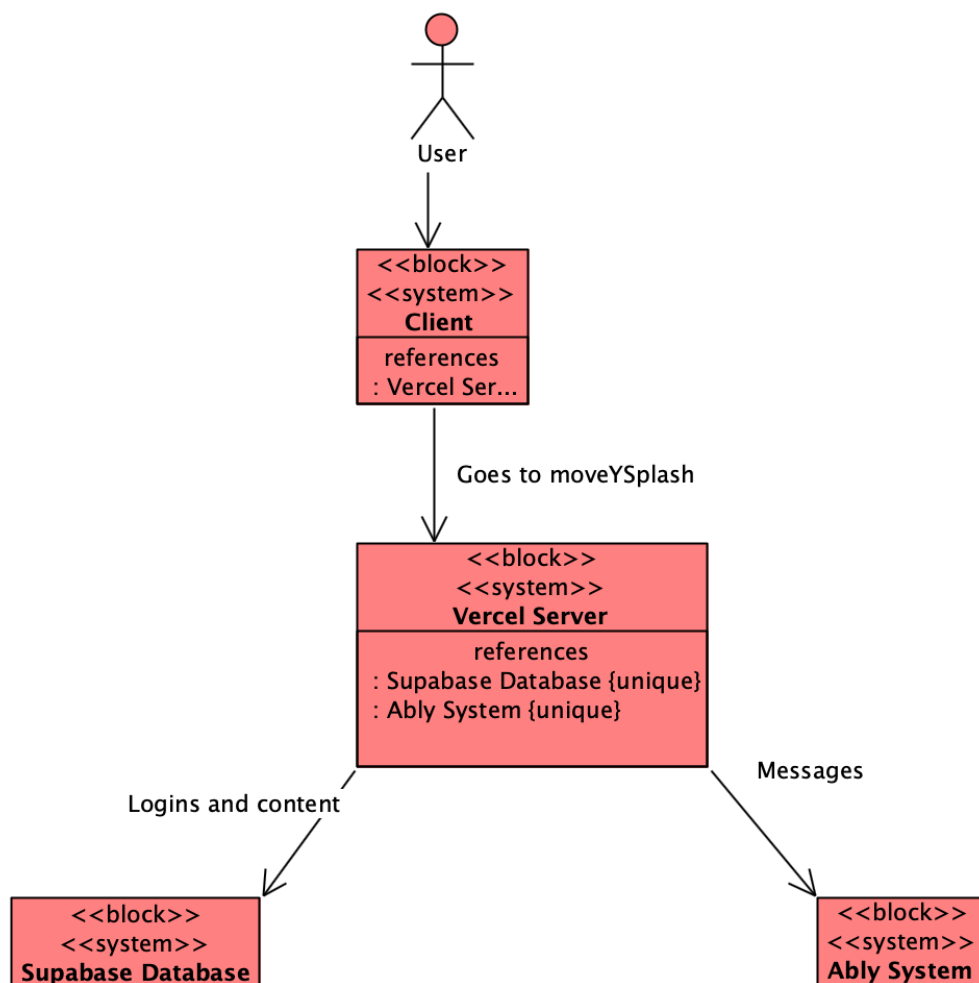


Figure 1: How the social media application is powered

3.2.1 How moveY splash works when person loads it?

First, in a networking science world, person needs internet access to go on websites and they need access to ISP in order to get access to the internet. If you load a website, it gets a webpage from a web server. Vercel is the number one next.js hosting platform to store and run next.js applications in a cloud. If a person accesses moveY splash onto the client, it sends packets directly to ISP modem and moves to the ISP central office/headend, wireless tower and diverts it to vercel cloud server to get a website. Once the website is retrieved, it goes back to the client and the browser would load the web application. If you want everyone to have access to the webpage, you need to deploy your application on vercel.

3.2.2 How the Vercel Server interacts with Supabase and Ably chat app

Vercel, which is hosting moveYSplash is designed to interact flawlessly with Supabase database and Ably chat system. In order for user to register, it loads the user information directly to the moveY splash database by routing it to the Supabase database server so when user logs into the application, they can access to the account. It's like facebook, instagram and snapchat using their own database to store their customer information so people can access their snapchats, keep friends lists and so on. When user posts, comments, uses stories, it's loaded onto supabase database so when person tries to load it again, stories stay. It auto deletes in 24 hours just like snapchat. Ably is also designed to load other persons webcams on video chats flawlessly and messaging flawlessly. With the power of ably, if person messages someone, someone receives each other messages. Video feeds rely on ably so it's easy for person to see each other face to face. Supabase and ably chat application interaction is very important to make the social media application fully functional

3.2.3 How Ably works

Ably works by making it easier for messaging and video chats to work flawlessly and work two way. With scalable and reliable platform designed for messaging, video chat and new and expected things. Ably is designed to ensure people are able to receive messages and see people face to face two way without any issue. With the power of guaranteed message delivery, users can seamlessly interact with their people on social media account so people can stay in touch. Ably is designed to guarantee face to face video calls so users don't have any problems with not being able to see each other. With power of high reliability, people can stay in touch during special moments like virtual birthday parties, playdates and ability to see someone else's toddler virtually. Thanks to the power of ably, it's easy for people to message, and do video chat on moveYSplash.

3.2.4 How Supabase works

Supabase is a modern database designed to power the future of database and fast pace innovation with modern all in one social media applications for 21st century. Supabase is a modern serverless database which allows modern tech companies to build a backend without needing to host another web server. Therefore it's easy to add new features to social media without crashing users ability to access the web application. Supabase works by enabling users to have access to their social media application, post comments, stories and so on. If a user is posting something to their profile, it gets stored into the database first before it appears on the internet. If user is commenting or posting a story, it gets uploaded to the internet for 24 hours. If user registers for the account, the information gets saved to database so user can login to the application. If user deletes the account, their information is removed from the database. Adding, removing people also is saved in database. With power of supabase database, user can add, or delete people that have registered for the social media accounts onto

the database as well. Without supabase database, people won't be able to experience moveYSplash application.

4 Conclusion

Modern social media application revolves on the 21st century innovation framework with power of next.JS, ably and supabase as well as Modern design innovation architecture. When you build a modern app, you have to do everything you could to create splash kind of effect similar to apple 2026 OS family which was introduced in WWDC 2025. If you are planning to build a modern web application for 21st century, it would be better to use next.js, ably, supabase to help design a architecture for faster innovation and future proofing for new form factors. Soon, modern devices would rely on MDIA architecture and its very important for applications to be designed for faster innovation as 2030s and beyond would be foldable devices, optics to the room and so on. Its time for applications to meet the evolving demands of fast innovation and MDIA form factors and moveYsplash has a modern looking design to drive innovation at full speed. With combination of next.JS, MDIA, ably and supabase, this application is a one stop shop for everyones social media application demands.

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