

Literature Review

Year Of The Paper	Title Of The Paper	Journal/ Conference Details	Methodology used	Proposed idea	Advantages /Achieved Objectives In Paper	Disadvantages /Limitations
2008	Design of a Secure Chat Application based on AES Cryptographic Algorithm and Key Management	Mathematical Methods, Computational Techniques,	Defined a protocol for communication & designed a system for Handling user Passwords & keys.	Use symmetric Cryptographic algorithm (AES advanced system)	Overcome the Drawbacks of Classical Symmetric Cryptographic system	Users are Limited within The Local Area Network (LAN) Security faults According to Internet version Might be introduced.
2018	Developing an End-to-End Secure Chat Application	IJCSNS International Journal of Computer Science & Network Security	The proposed Chat application is compared with other popular Chat applications based on requirements as well as testing	List of requirements and Proposed Architecture to achieve the goal of Building a end to end secure Application is made.	XSalso20 Algorithm ideal For mobile Devices Because of its High security, high performance & battery life.	Some of the Requirements In list may be irrelevant.
2017	Security analysis of end-to-end encryption in Telegram	2017 Symposium on Cryptography and Information Security, Naha, Japan	Analysis of security vulnerabilities in E2EE	Building Blocks of E2EE & MTPROTO	MTPROTO is faster	MTPROTO has Security flaws
2017	Security Analysis of Telegram	Hayk Saribekyan (hayks@mit.edu), Akaki Margvelashvili (margvela@mit.edu)	Analysis of Telegram Architecture, Functionalities, And history.	Less data Should be Publicly Shown to All users.	Vulnerability can Give false positive result.	exploited a leak on user availability

2009	Impact of Text Messaging on Communication	Journal of Undergraduate Research at Minnesota State University	Two focus groups of college going students were asked different questions on text messaging vs face to face communication	To find if text messages displaced face-to-face communication	This study showed text messaging does displace face-to-face communication. However, text messaging is just a small part of displacing face-to-face communication	This study focused on students in the Arts & Humanities College therefore more research could be done with students in different colleges and on a different age group such as high school students or adults.
2016	Survey Analysis on the usage and Impact of Whatsapp Messenger	SOCIS, Indira Gandhi National Open University, New Delhi	An open source software called Lime survey was used to conduct online survey with form containing both close-ended and open-ended questions to access the demographics of users	To analyze intensity of usage of Whatsapp and its popular services along with impact of using Whatsapp and to seek frequency and interactivity of Whatsapp among its users.	Most of the respondents use whatsapp for 15 to 60 minutes daily, 64% people think whatsapp doesn't harm them	The study was conducted in Delhi with 136 respondents which could be extended to more cities and more respondents. There is limited literature review available in Indian context.
2006	A study of Internet instant messaging and chat protocols	IBM T.J. Watson Research Center	The most recent Internet Messaging clients and protocols were analyzed	An overview of Internet Messaging protocols as exemplified by the three popular	Internet Messaging and Internet chat are here to stay, and will continue to evolve over time	Little is known about the technical aspects of commercial Internet Messaging and

				systems: AIM, MSN, and YMSG presented		chat protocols, due to the closed proprietary nature of these systems
2020	REALIZATION OF NATIVE APPS USING PROGRESSIVE WEB APPS	Journal of Emerging Technologies and Innovative Research	The set of technologies and concepts related to progressive web apps were analyzed	Examine and evaluate the status quo of current possibilities comparing against cross-platform app development approaches on both technical and overarching aspects	Rendering improved user interface and incorporating the necessary PWA features is not quite difficult, Several native applications are likely to be replaced in the future, Several native applications are likely to be replaced in the future,	The Progressive Web App must be further tracked by more study and market acceptance
2019	Do Not Harm in Private Chat Apps: Ethical Issues for Research on and with WhatsApp	Westminster Papers in Communication and Culture	Ethics in research on Ethnographic Chat Groups	Guarantee full anonymisation to research subjects	Ethnographic groups secured. Ethics are followed.	Less accurate research is done.
2018	Progressive Web Apps: the Definite Approach to Cross-Platform Development?	51st Hawaii International Conference on System Sciences	Holistic introduction to PWAs	Progressive Web Apps (PWAs) can be the definite approach to cross-platform development?	PWA can contribute to a richer development experience, and eventually better apps	Some Features still under development.

2017	Progressive Web Apps: The Possible Web-native Unifier for Mobile Development	13th International Conference on Web Information Systems and Technologies (WEBIST 2017)	Comparing with Ionic Framework Hybrid App, React Native App	Potential for PWAs to become a unifier for web-native development without the use of cross-platform frameworks	PWA are more User Friendly, Faster, Secure. PWA can look, feel and act similar to native, hybrid and interpreted apps	Hardware and platform API limitations to PWAs
2018	Identifying Usability Issues in Instant Messaging Apps on iOS and Android Platforms	Hindawi Mobile Information Systems Volume 2018, Article ID 2056290	Evaluation to detect the main usability issues of instant messaging apps	Features are recommended which are for the benefit of the User	Improves Usability, User Friendly, May lead to higher economic benefits.	Requires time & effort implementing all the recommended features.