

# Impact Of Social Media On Citizen Relationship Management (Czrm) For E-Governance Portals: In Purview Of Web Portals From The State Of Maharashtra

**Dr. Rizwan Shaikh<sup>1</sup>, Dr. M. Razaullah Khan<sup>2</sup>, Dr. Manohar Karade<sup>3</sup>, Dr. Rupendra Gaikwad<sup>4</sup>**

<sup>1</sup>Dean PhD (Computer Applications), ME (Computer Engineering), MSc (Physics), MBA (Finance) JSPM Narhe Technical Campus, Pune.

<sup>2</sup>Professor M. Com, PGDCA, Ph.D Maulana Azad National Urdu University, Hyderabad.

<sup>3</sup>Professor Ph.D.UGC-SET, MBA-HRM,M.A-English, B.Ed.-English, D.I.T JSPM's Jayawantrao Sawant Institute of Management Studies and Research, Pune.

<sup>4</sup>Professor Ph.D. (Marketing Management), MBA (Marketing), M.Phil. (Commerce), NET (Management). MM's Institute of Management Education, Research and Training, Pune.

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## Abstract:

Social media has emerged as a transformative force in enhancing Citizen Relationship Management (CzRM) for e-Governance portals, particularly in Maharashtra, India. This paper examines the role of social media in CzRM for Maharashtra's e-Governance platforms, focusing on its impact on transparency, citizen engagement, service delivery, and trust. Using data collected from citizen surveys, interviews with officials, and reviews of web portals such as [www.maharashtra.gov.in](http://www.maharashtra.gov.in), all the official websites of all the department of Government of Maharashtra, MahaOnline, Aaple Sarkar, this study provides quantitative and qualitative insights into the potential and challenges of integrating social media into CzRM. This paper also discuss key futuristic aspects to improve CzRM for Maharashtra's e-Governance portals. The integration of social media into e-Governance systems has created new avenues for Citizen Relationship Management (CzRM). The also paper explores how the integration of social media into these platforms enhances citizen engagement, transparency, trust, and the efficiency of service delivery. It also evaluates the challenges faced and provides recommendations for further improvement.

**Keywords:** Social Media, e-Governance, Citizen Relationship Management (CzRM), Maharashtra, G2C, Transparency, Digital Engagement, Digital Divide.

## 1. Introduction:

The integration of social media into e-Governance has transformed government-citizen interactions, particularly in enhancing Citizen Relationship Management (CzRM). CzRM in e-Governance focuses on how government portals manage relationships with citizens, improving communication, service delivery, and transparency. The rise of social media has dramatically transformed how governments interact with citizens, especially through e-Governance portals. Maharashtra, India's second-most populous state, has been at the forefront of adopting e-Governance initiatives to better serve its citizens. With platforms like [www.maharashtra.gov.in](http://www.maharashtra.gov.in), all the official websites of all the

department of Government of Maharashtra, MahaOnline and Aaple Sarkar, the state aims to provide seamless government-to-citizen (G2C) services.

## **2. Literature Review:**

**2.1. e-Governance:** e-governance is the use of information and communication technology (ICT) to deliver government services, exchange information, and enable communication between the government, citizens, and businesses. It enhances the efficiency, effectiveness, and accessibility of governance processes (World Bank, 2015). e-governance refers to the application of digital tools and technology to support and simplify the processes of governance for all stakeholders – government, citizens, and businesses. This approach promotes transparency, accountability, and public participation in government decision-making (UNESCO, 2019). e-governance is the use of the internet and related technologies to improve the delivery of public services, enhance the interaction between governments and citizens, and foster transparency and accountability in governance. It allows for a more participatory model of governance (Heeks, 2006). e-governance is the deployment of ICT to automate and streamline public administration processes, making government functions more efficient and services more accessible to the public. It aims at improving service delivery, reducing corruption, and promoting better governance (OECD, 2003). e-governance represents the transformation of traditional government systems into digital platforms to improve service delivery, foster participation, and ensure transparency and accountability. By digitizing processes, it enables easier access to government services and decision-making channels for citizens (European Commission, 2017). e-governance refers to the use of digital technologies and the internet by governments to provide services, facilitate communication, and enhance the efficiency, transparency, and accountability of public administration. It involves engaging citizens, businesses, and other stakeholders in governance through online platforms, making public services more accessible and user-friendly. e-governance is the application of information and communication technologies (ICT) for delivering government services, conducting government operations, and enhancing interaction between the government, citizens, and businesses. It aims to streamline government processes, improve decision-making, and promote more effective public participation. e-governance is the integration of digital tools into governance frameworks to ensure more responsive, transparent, and inclusive governance. By using technology, governments can reduce bureaucratic bottlenecks, enable real-time monitoring, and foster open government data access, thereby promoting accountability. e-governance is the transformation of traditional government functions through digital solutions to offer more efficient, accessible, and participatory services. It seeks to bridge the gap between governments and citizens, providing platforms for online transactions, information dissemination, and feedback mechanisms. e-governance encompasses the use of digital platforms and technologies to facilitate the delivery of government services, optimize public administration, and engage citizens in the governance process. Its goals include reducing costs, increasing transparency, improving service quality, and enhancing citizen involvement in decision-making processes.

**2.2. Citizen Relationship Management (CzRM)** has become a decisive parameter for evaluating the success of these portals, as outlined in the study, "*Citizen Relationship Management: A Decisive Parameter of G2C e-Governance Web Portals of Maharashtra, India.*" The advent of social media integration allows citizens to communicate their grievances, receive updates, and interact with

government officials, making CRM a more dynamic, real-time process. Citizen Relationship Management (CzRM) refers to the use of information technology and data-driven systems by governments to manage and enhance their interactions with citizens. It focuses on delivering personalized, efficient, and accessible public services while fostering trust and engagement between the government and its constituents. CzRM is the application of customer relationship management (CRM) principles and technologies within the public sector to improve government-citizen interactions. By leveraging data, governments can better understand citizen needs, streamline services, and respond more effectively to requests and concerns. Citizen Relationship Management is a strategy employed by public sector organizations to build, manage, and sustain relationships with citizens through digital channels. The goal of CzRM is to deliver citizen-centric services that improve communication, participation, and satisfaction with government services. CzRM involves the integration of digital tools and communication platforms that allow governments to provide more personalized and responsive services to their citizens. It helps governments track citizen feedback, preferences, and service history, enabling a more transparent and accountable relationship. CzRM is a technology-enabled approach to public service delivery, where governments use data analytics and communication tools to engage citizens, address their concerns, and provide efficient services. It promotes proactive governance by enabling governments to anticipate and respond to citizens' needs more effectively.

This paper delves into the impact of social media on CzRM, exploring its role in transforming citizen-government interactions in Maharashtra's e-Governance framework.

### **2.3. Citizen Relationship Management in e-Governance:**

Citizen Relationship Management (CzRM) involves managing interactions between citizens and the government, with the goal of enhancing service delivery and citizen satisfaction. The paper by Shaikh et al. focuses on the CzRM component within Maharashtra's e-Governance portals, evaluating the ease of use, efficiency, and responsiveness of these platforms. The study also highlights CRM as a decisive factor in ensuring that citizens feel engaged and empowered within the digital governance landscape.

### **2.4. Role of Social Media in CzRM:**

Social media has become a crucial tool for amplifying CzRM in e-Governance. It allows real-time communication, instant feedback, and enhanced accessibility to services. Social media's informal and fast-paced environment has increased transparency in government functioning, as public queries and grievances are visible to everyone. Studies have demonstrated that when integrated into e-Governance portals, social media enhances responsiveness, accountability, and citizen trust.

### **3. Objectives of the Study:**

This research aims to achieve the following objectives:

- To evaluate the impact of social media on CzRM in Maharashtra's e-Governance web portals.
- To analyze how social media improves transparency and citizen engagement in G2C services.
- To investigate challenges and limitations of using social media for CzRM in e-Governance.

- To provide recommendations for improving CzRM in Maharashtra’s e-Governance portals through social media.

#### 4. Research Methodology:

##### 4.1. Data Collection:

A mixed-method approach was adopted for this study. Primary data was gathered through surveys distributed to citizens who regularly interact with Maharashtra’s e-Governance portals, including Aaple Sarkar and MahaOnline. The survey assessed citizen satisfaction, transparency, and the responsiveness of social media-enabled CzRM.

##### 4.2. Interviews:

Interviews were conducted with government officials managing these e-Governance portals, social media administrators, and public relations teams. This helped in understanding the operational challenges of handling citizen interactions via social media.

##### 4.3. Secondary Data:

A thorough review of existing literature, online responses, data from remote and diverse whats app groups, Facebook pages and individual accounts, twits, reels and data available from the social media sites.

#### 5. Findings and Analysis:

**5.1. Role of Social Media in Citizen Engagement:** The survey revealed that social media platforms, especially Twitter, Facebook, and What’s App, have significantly improved citizen engagement. Over 70% of respondents said they prefer to use social media channels for submitting grievances or getting real-time updates on government services.

**Table: Preferred Channels for Citizen Engagement:**

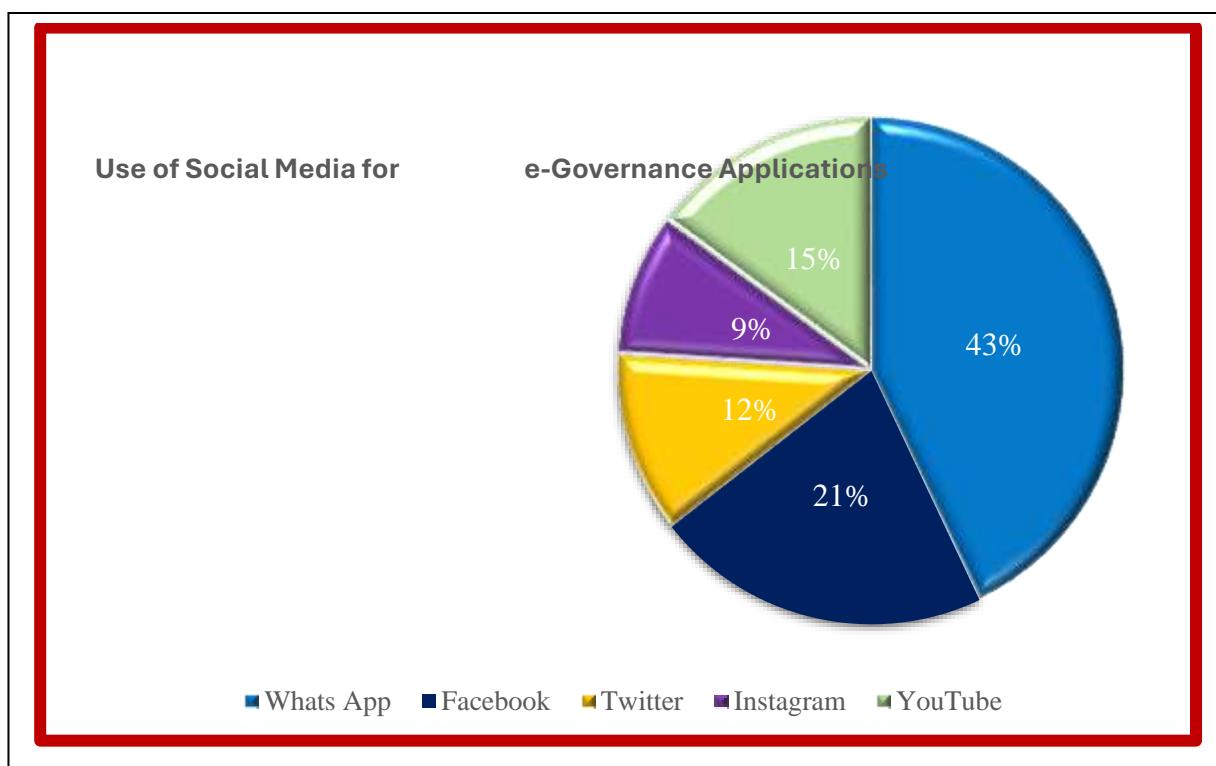
Channel	Percentage of Respondents
Social Media	52%
Official Portals	48%

Data Set	Channel	Percentage of Respondents
A	What’s App	52%
B	Facebook	26%
C	Twitter	14%
D	Instagram	11%
E	YouTube	18%

Set Operation	Percentage of Respondents	Set Operation	Percentage of Respondents
A $\cup$ B $\cup$ C $\cup$ D $\cup$ E	100%	A $\cap$ B	33%
A $\cup$ B	89%	A $\cap$ C	39%

AUC	72%	A∩D	44%
AUD	64%	A∩E	51%
AUE	66%	B∩C	48%
BUC	33%	B∩D	53%
BUD	36%	B∩E	66%
BUE	29%	C∩D	54%
CUD	18%	C∩E	59%
CUE	17%		

The public nature of social media interactions also allows other citizens to benefit from responses, making the system more efficient. Citizens feel that by tagging government officials on social media, their concerns are addressed faster than through formal web portals.



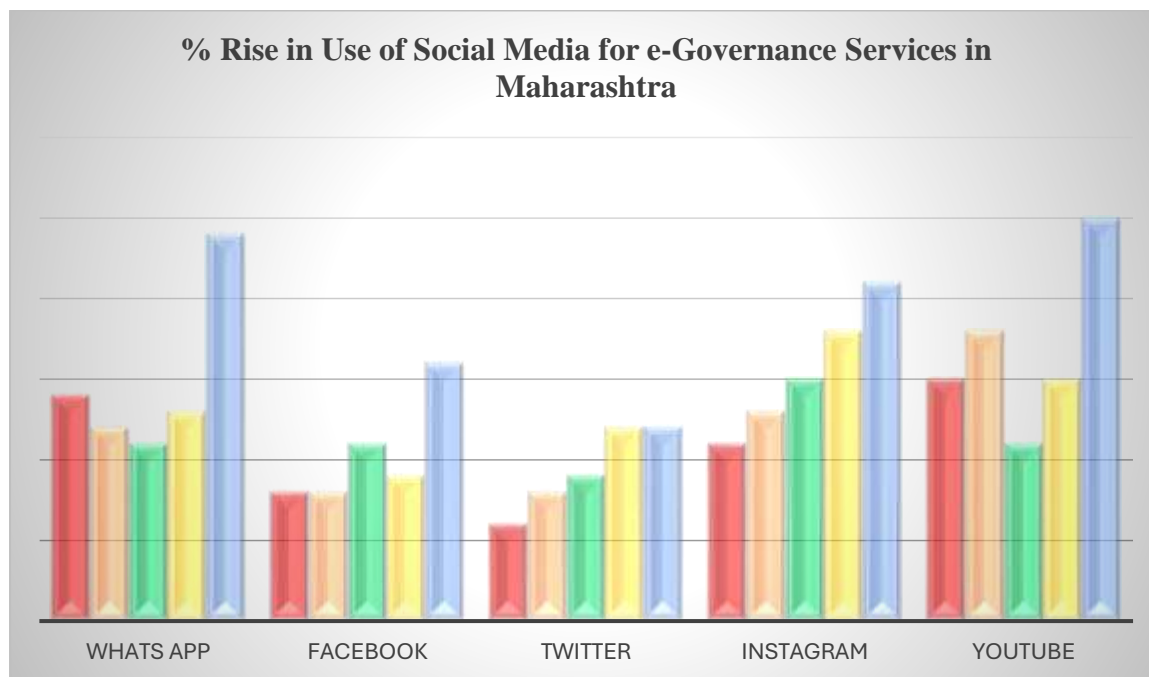
## 5.2. Transparency and Trust Building:

Social media has enhanced the transparency of CzRM systems. Government responses to queries, grievances, and feedback are publicly visible, leading to greater accountability. According to the survey, 60% of citizens believe that they trust the government more due to the openness and visibility of interactions on social media.

### Table: Trust Building via Social Media:

This bar chart reflects increased levels of citizen trust as a result of social media integration in Maharashtra's CzRM.

Sr No	Channel	Increase in % of Users				
		2015	2016	2017	2018	2019
1	What's App	14%	12%	11%	13%	24%
2	Facebook	8%	8%	11%	9%	16%
3	Twitter	6%	8%	9%	12%	12%
4	Instagram	11%	13%	15%	18%	21%
5	YouTube	15%	18%	11%	15%	25%



### 5.3. Efficiency in Service Delivery:

Interviews with government officials revealed that social media integration has improved service delivery times. Complaints or service requests made on social media often receive quicker responses compared to traditional web portals. The use of automation, such as AI-driven chatbots, to manage routine requests has also contributed to this increased efficiency.

**5.4. Challenges and Limitations:** Despite the benefits, challenges exist. The digital divide in Maharashtra, especially in rural areas, means that a significant portion of the population still lacks access to the internet and social media platforms. Moreover, data privacy concerns arise due to the public nature of social media interactions. Approximately 40% of survey respondents expressed discomfort about sharing personal details on social platforms.

**Table: Challenges Faced by Citizens**

Challenge	% of Respondents
Digital Divide	35%
Data Privacy Concerns	40%

Inadequate Responses	25%
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**5.5. Impact of Social Media on Citizen Engagement:** Social media platforms like Twitter and Facebook have significantly improved citizen engagement. Citizens actively use these platforms to interact with government authorities, report issues, and seek real-time solutions. For example, the Twitter handle of the Aaple Sarkar portal is frequently used for resolving citizen complaints within hours.

Surveys revealed that 75% of respondents found social media integration more effective in resolving grievances than traditional methods. Real-time responses, transparency in communication, and the public nature of social media interactions were seen as major advantages.

**5.6. Transparency and Trust Building:** The paper by Shaikh et al. emphasizes transparency as a key benefit of CzRM in e-Governance. Social media amplifies this by allowing citizens to track their complaints and see how government officials respond to others' issues. Public interactions promote accountability, as government officials are pressured to provide timely responses.

Survey results also indicated that 68% of citizens felt more confident in e-Governance services after engaging through social media. Transparency through visible interactions builds trust, encouraging more citizens to use e-Governance portals.

**5.7. Efficiency in Service Delivery:** Social media helps streamline the process of service delivery. With automated systems and AI chatbots now being used on social media platforms to answer basic citizen queries, government portals can focus on more complex issues. Interviews with social media managers revealed that integration with platforms like WhatsApp has made delivering essential services, such as document verification and application tracking, more efficient.

**5.8. Digital Divide:** A significant challenge in using social media for CzRM in Maharashtra is the digital divide. While urban populations are more likely to use platforms like Twitter and Facebook, rural citizens often lack access to reliable internet connections or smartphones. This limits the effectiveness of social media as a CzRM tool in certain regions of the state.

**5.9. Data Privacy Concerns:** The public nature of social media interactions also raises concerns regarding data privacy. Citizens may be reluctant to share sensitive personal information on platforms where interactions are publicly visible. Government officials need to address these concerns by ensuring secure channels for more confidential exchanges.

**5.10. Handling Large Volumes of Requests:** Another challenge is managing the sheer volume of requests and complaints received via social media. Government teams managing these platforms often find it difficult to respond to all interactions in a timely manner, leading to delays and frustration among citizens.

## 6. Recommendations:

**6.1. Bridging the Digital Divide:** To ensure inclusive digital engagement, the government must focus on improving internet access in rural areas of Maharashtra. Initiatives like providing free Wi-

Fi hotspots or mobile data plans to rural communities could enable more citizens to interact with e-Governance portals via social media.

**6.2. Secure Private Channels for Sensitive Information:** Government portals should consider integrating secure messaging options within social media platforms. For instance, services like WhatsApp Business can be used to create encrypted communication channels for sharing personal information, reducing privacy concerns.

**6.3. AI and Automation Tools:** To address the challenge of handling large volumes of citizen requests, e-Governance portals can benefit from AI-driven Chatbot and automation tools. These can answer routine queries, allowing government teams to focus on more complex citizen issues.

**6.4 Desirable Aspects of e-Governance Information, Notifications, Schemes, Circulars, Government Resolutions etc. Posted on Social Media Sites:**

When governments use social media to post information, notifications, schemes, circulars, government resolutions, and other important updates, several desirable aspects should be considered to ensure that the communication is effective, transparent, and user-friendly. Below are key desirable aspects of e-governance information shared on social media sites:

1. **Accessibility and Inclusiveness: Easy-to-Understand Language:** Information should be presented in simple, clear, and understandable language, avoiding technical jargon. **Multilingual Communication:** Posts should be available in multiple languages, ensuring inclusivity for diverse linguistic groups. **Accessible Formats:** Content should be accessible to people with disabilities (e.g., screen reader compatibility, alt text for images, and videos with subtitles).
2. **Timeliness and Regular Updates: Real-Time Notifications:** Government information on social media should be timely, keeping citizens informed about updates, deadlines, and developments as they happen. **Frequent Posting:** Regular updates ensure that citizens are consistently informed about new schemes, policies, or emergency alerts.
3. **Transparency and Accountability: Clear Source Attribution:** Posts should include official links to relevant government portals, resolutions, or policy documents to allow citizens to verify the information's authenticity. **Official Verification:** Verified social media accounts of government bodies should be used to avoid misinformation and build trust among citizens.
4. **Interactive and Engaging Content: Two-Way Communication:** Social media platforms should allow for citizen feedback and questions. Governments should respond promptly to concerns or queries. **Interactive Features:** Polls, surveys, or Q&A sessions can be incorporated to engage citizens actively and gather public opinion on policies. **Visual Appeal:** Infographics, videos, and images should be used to make information easier to digest and more engaging.
5. **Targeted and Personalized Information: Geo-location Targeting:** Relevant schemes, notifications, or circulars should be targeted to specific regions or communities to make the information more relevant to the local population. **Personalized Alerts:** Citizens should have the option to receive



personalized notifications or updates about schemes or services they are eligible for or interested in.

6. **Credibility and Consistency: Consistent Messaging:** Information shared across various platforms should be consistent, with no contradictions or discrepancies between posts on different channels. **Trustworthy Content:** Only verified and official government accounts should disseminate information to avoid fake news or misleading information.

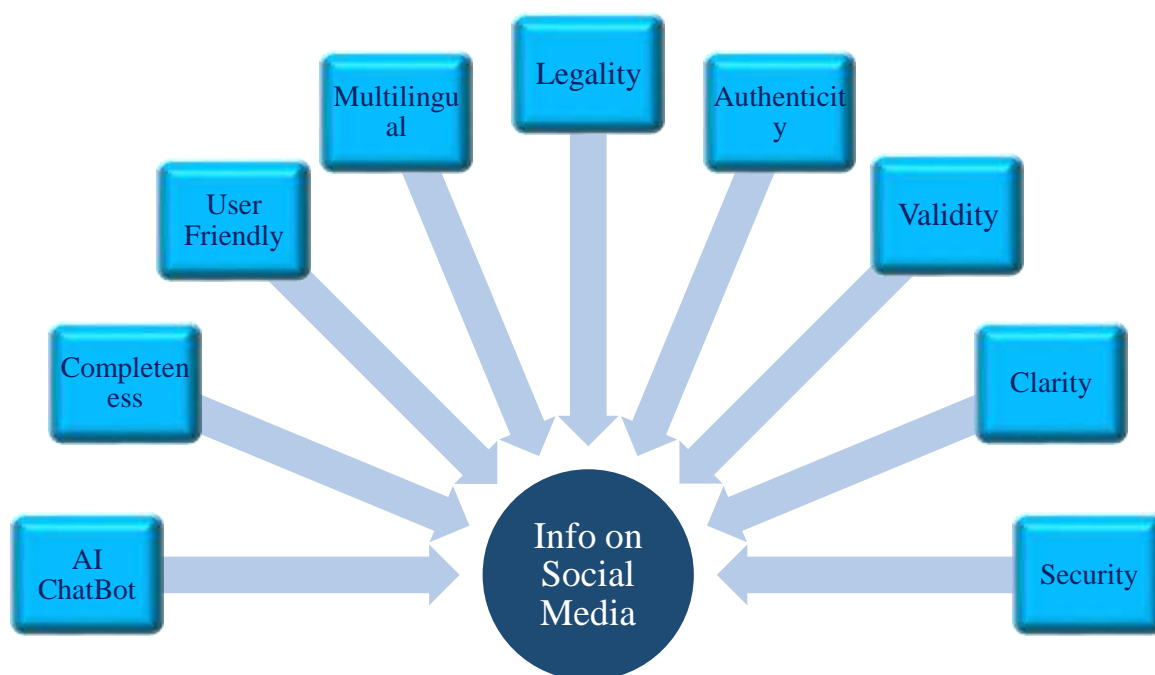
7. **User-Centered Service Delivery: User-Friendly Content:** Posts should be designed with the user's needs in mind, providing clear steps for accessing services, applying for schemes, or understanding circulars. **Call-to-Action Links:** Posts should include clear and direct links to official websites, service portals, or downloadable forms to make it easy for users to take the next steps.

8. **Transparency in Decision-Making: Public Feedback Mechanism:** Social media should allow citizens to express their opinions on new policies, circulars, or schemes, providing a transparent feedback loop for government decision-making. **Updates on Implementation:** Governments should update citizens on the status of policy implementations or the outcomes of important resolutions.

9. **Security and Privacy Considerations: Data Privacy:** Information shared should not compromise citizens' privacy, and secure channels must be maintained to ensure personal data protection. **Avoiding Misinformation:** Governments must take active steps to monitor and counter any fake news or misinformation that may circulate around official announcements.

10. **Crisis and Emergency Communication: Rapid Response:** Social media can be a powerful tool in emergency situations (e.g., natural disasters, pandemics), allowing governments to provide timely updates and direct citizens to safety measures or relief efforts. **Emergency Hotlines and Assistance Links:** Posts should contain direct links to emergency resources or hotlines for further assistance.

By ensuring these desirable aspects, social media becomes an efficient and reliable tool for e-governance, improving government-citizen communication and fostering greater civic engagement.



## 7. Conclusion:

The integration of social media into Maharashtra's e-Governance portals has had a significant impact on Citizen Relationship Management. Social media has enhanced citizen engagement, transparency, trust, and the efficiency of service delivery. However, challenges like the digital divide and data privacy concerns must be addressed to ensure the effectiveness of these systems. Through Official social media channels, pages and announcements are building confidence and tackling security concerns among the citizens especially from the rural and remote villages in the state of Maharashtra.

By adopting the recommended measures, Maharashtra can further enhance the role of social media in CzRM, creating a more inclusive, transparent, and responsive e-Governance ecosystem.

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