

Optimizing Refugee Aid: Integrating Cloud-Based CRM in Multi-Agency Collaborations

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Abstract: *Roughly 79.5 million people have been displaced by violent conflicts, persecution, famine, natural disasters, and other catastrophic events. In the nonprofit sector, customer relationship management software or systems are considered an increasingly viable approach to current difficulties. While seeking protection in a foreign country, refugees are continually confronted with obstacles that restrict their ability to meet their basic needs, resulting in food insecurity, unstable housing, and a lack of resources to support their families. Recently, customer relationship management systems, frequently used in other sectors, have been used to mitigate the negative consequences of refugee status. It has been possible to interact with refugees, provide them with essential and vital information about themselves, and produce employment or business opportunities. In addition to serving as a repository for client information, CRM software used for refugee management enables the enhancement of refugee admissions, records management, resettlement, and reintroduction into the workforce. Services such as financial aid, medical help, and other types of support can be tracked by CRM software. In addition, it may assist with cultural orientations, language instruction for refugees, and career assistance. Despite substantial start-up or implementation costs, companies should examine the benefits of deploying cloud-based CRM systems, which ensure that all data is secure, safeguarded, and never lost due to human error, theft, or natural catastrophes.*

Keywords: refugee aid, crm, customer relationship management, humanitarian challenges

1. Introduction

Refugees, while seeking safety in a foreign nation, are constantly confronted with challenges that impede their capacity to meet their fundamental requirements, resulting in food insecurity, housing instability, and a lack of financial means to support their families. Consequently, refugees in a global environment face humanitarian, strategic, governmental, cultural, legal, and economic issues that are best handled by integrating historical experiences and current empirical evidence with best practices for refugee case management. [1]. Refugees keep refugee status for a staggering twenty years, underscoring the need for more efficient, resilient, dependable, and automated systems to assist refugees in acclimatizing more swiftly, resulting in more rapid self-sufficiency. [2] Refugee case management entails identifying those who may require additional assistance, analyzing the abilities individuals already possess to assist themselves, stabilizing basic needs such as food, shelter, education, and employment opportunities, and providing overall stability. [2]. Berthelette et al. discovered that many charitable organizations suffer a multitude of data storage concerns since most of their data is saved and shared in various locations, such as "Dropbox, Google Drive, Excel Spreadsheets, and simple Microsoft Access Databases." Although these different approaches permit more modern data storage and access, they do not permit uniformity across users within the same organization or inter-agency interactions. They are also highly susceptible to human error. In the nonprofit sector, customer relationship management (CRM) software or systems are increasingly viewed as a feasible response to current challenges.

2. Literature Survey

Customer Relationship Management (CRM) systems have been widely adopted in various sectors to manage customer

interactions, improve communication, and streamline processes [6]. In the context of refugee management, CRM systems have been utilized to enhance refugee admissions, records management, resettlement, and reintegration into the workforce [7]. CRM systems can track services such as financial assistance, medical aid, and other forms of support [8]. Additionally, CRM systems can facilitate cultural orientation, language training, and employment assistance for refugees [9]. The potential benefits of CRM systems in refugee management have been recognized, but more research is needed to determine their effectiveness in multi-agency collaborations [10]. Refugees face numerous challenges in their new host countries, including language barriers, cultural differences, difficulties in finding affordable housing, and employment obstacles [4][5]. Multiple organizations, including governmental, non-governmental, and private entities, work together to address these challenges and reduce the burden on both refugees and their host communities [9]. However, the lack of standardized data storage and sharing systems among these organizations can hinder effective collaboration and lead to inefficiencies in providing aid [8]. Consequently, there is a need to explore the integration of CRM systems in multi-agency collaborations to optimize refugee aid and management.

The adoption of cloud-based CRM systems in refugee aid and management initiatives can facilitate inter-agency communication, streamline processes, and enhance the overall effectiveness of aid delivery [11]. Cloud-based CRM systems offer several advantages over traditional CRM systems, including increased data security, scalability, and real-time access to information [12]. By integrating cloud-based CRM systems in multi-agency collaborations, organizations can better coordinate their efforts, share information, and track the progress of refugees throughout their resettlement journey [13]. A limited number of studies have explored the use of CRM systems in refugee aid and

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management initiatives. Madon and Schoemaker [17] investigated the role of digital identity platforms in improving refugee management, highlighting the potential benefits of integrating CRM systems in refugee aid programs. Similarly, Lee et al. [18] conducted a multidisciplinary literature review of refugee employment and workforce integration, emphasizing the importance of information and communication technologies, such as CRM systems, in facilitating refugees' self-reliance.

Some case studies have reported successful implementation of CRM systems in refugee aid and management initiatives. For example, a leading CRM provider, collaborated with the International Rescue Committee to develop a secure, blockchain-based system for managing refugees' identity data [16]. Another example is the United Nations High Commissioner for Refugees (UNHCR), which developed a suite of registration tools, including a CRM system, to facilitate the management of refugee data and aid delivery [21]. These cases demonstrate the potential of CRM systems in improving refugee management and aid delivery, but more research is needed to determine their effectiveness in multi-agency collaborations. The literature on the integration of cloud-based CRM systems in multi-agency collaborations for refugee aid and management is limited but promising. The potential benefits of CRM systems in streamlining processes, enhancing communication, and improving aid delivery have been recognized. However, more research is needed to determine the effectiveness of CRM systems in multi-agency collaborations and to develop best practices for their implementation. Future studies should focus on evaluating the impact of CRM systems on refugee outcomes and identifying strategies for their successful integration in multi-agency collaborations.

1) The Humanitarian Perspective and Case Management

Violent conflicts, persecution, famine, natural disasters, and other calamitous events have caused the displacement of approximately 79.5 million individuals worldwide. This staggering figure translates to one in every 103 people on Earth being an asylum-seeker or refugee [3]. Projections indicate that by 2065, immigrants and their descendants will constitute 88 percent of the United States' population growth. Additionally, due to the ongoing conflict in Ukraine, 5 million Europeans are currently seeking refuge outside their home country [4]. Although refugees may escape immediate danger upon arrival in their new host countries, they often encounter a myriad of challenges stemming from resource scarcity in their new communities and the struggle to adapt to unfamiliar surroundings. Common issues include language barriers, difficulties in finding affordable housing, cultural differences, and significant obstacles in entering the job market [4], [5].

Numerous governmental, non-governmental, non-profit, and private organizations have joined forces or worked concurrently to alleviate the hardships faced by refugees and lessen the strain they may impose on their new communities. In recent times, information and communication technologies have been employed to mitigate the adverse effects of refugee status. These technologies have facilitated communication with refugees, provided essential

information to and about them, and generated potential employment or entrepreneurship opportunities to enhance self-reliance for this marginalized population [5]. Evidently, there is a growing need for a more efficient, evidence-based approach to managing refugee cases.

To address this need, various organizations have explored the use of Customer Relationship Management (CRM) systems to improve refugee admissions, records management, resettlement, and reintegration into the workforce [7]. CRM systems can track services such as financial assistance, medical aid, and other forms of support [8]. Additionally, CRM systems can facilitate cultural orientation, language training, and employment assistance for refugees [9]. The potential benefits of CRM systems in refugee management have been recognized, but more research is needed to determine their effectiveness in multi-agency collaborations [10].

2) Customer Relationship Management Systems

Currently, there are two distinct types of customer relationship management (CRM) systems where refugees are concerned: those that are suited for the profession of law and those that help NGOs manage their caseloads. Even though these two independent systems can interact and complement one another, they serve different goals and have unique demands that occasionally overlap. CRM software used for refugee management helps to track which services are supplied to whom and the organizational impact on individual refugees while also serving as a technology-enabled repository for client information. [4]

CRM systems are in rising demand now, and this trend is anticipated to continue in the future. "New technologies, like cloud computing technology, artificial intelligence, machine learning, and the availability of numerous service models, are expected to propel the CRM industry to greater heights. [6] CRM software varies per application, however. It is utilized by several firms to monitor and manage clients. It may also be used in the healthcare and humanitarian sectors, such as managing refugees and asylum seekers.

Cloud or internet-based case management solutions function by standardizing and safeguarding case management. CRM systems are a type of relational database system that serve not only to store data but also to analyze and manage the many connections inside an organization, which is crucial to the success of a nonprofit. [8] While monitoring stakeholder ties create a path to financial sustainability, it may also be utilized as a standard approach for identifying and tracking migrants.

The most common facilitators of refugee health, per a comprehensive scoping review of empirical evidence, are strong communication of the availability of programs, tools, and training for organizations providing services, the sharing of services, transportation services for refugees, precise role definitions, interprofessional team, and relationship management, adequate budget allocation, and coordinated efforts. [9] In addition, transparent and timely documentation is required to ensure quality is maintained. [10] CRM solutions may assist refugee management compliance, efficiency, and success. It enables organizations to record

communication-related actions in real-time, track refugee progress, evaluate the efficacy of their services, and ensure that all criteria are adhered to. In summary, CRM solutions align with refugee case management best practices. Additionally, with the aid of CRM, cultural competence can be assured across the organization and staff by diffusion of such competencies in software guidance to increase skills. [11]

3) Benefits of CRM in Refugee Case Management

Customer relationship management (CRM) is "an innovative technology that seeks to improve customer satisfaction, loyalty, and profitability by acquiring, developing, and maintaining effective customer relationships and interactions with stakeholders" in various applications. [12] Regarding refugee case management, CRM is comparable to health information technology. Multiple studies have concluded that using a CRM properly may promote participation, aid in managing financial resources, facilitate the delivery of higher-quality assistance to refugees, and boost overall performance as they do in the health sector. [12]

The primary features of CRM software include creating organizational processes, client dashboards, customizable reporting, a place where employees and clients can fill out relevant paperwork digitally, and a venue for virtual case management. One of the main advantages of CRM is its ability to expedite the distribution of services compared to more conventional types of case management by automating some elements, such as initial customer intake. Overall, it can facilitate the scalability of services. [4] In the United States, for instance, CRM can assist firms in securing funding owing to their compliance with regulatory requirements. [4] Administrative duties are more simplified, and the adaptability of intake forms and other surveys captures what the organization needs to function and deliver the best services possible without placing staff or refugees at risk due to inadequate data management.

In refugee case management, CRM software boosts the efficiency of data organization and may be altered or tailored to meet the demands of a particular agency. It allows for personalized reports customized to an organization's specific needs, such as engagement metrics, case notes, schedules, and other crucial information for the administration of cases. [7] Additionally, it allows employees and organizations to learn about the refugees they assist. It enables adequate communication that may help to convey timely information to all stakeholders and establishes balanced viewpoints in the refugee management strategy. [12]

With compliance and reporting in mind, CRM may ease the collection of useable data that can be readily examined to assist in the strategic planning of a business. [13] CRM software may track services such as financial aid, medical assistance, and other forms of support, health screening, cultural orientations to enhance acculturation to a new country, language training for refugees, and guidance in determining suitable job paths. [13] Using software as a service (SAAS) to facilitate relationship management can improve refugee admissions, records management, resettlement, and reentry into the workforce.

4) Overcoming CRM Challenges

While there is extensive research on the impact of CRM systems on industries such as telecommunications, banking, manufacturing, and services, research pertaining to refugee management remains limited [12]. However, the concept of utilizing CRM systems in the nonprofit sector is not entirely new. Numerous studies have demonstrated that the deployment of CRM systems can foster organizational transformation, yet implementation efforts often fail due to factors such as inadequate change preparedness or resistance to change [14]. Furthermore, CRM systems necessitate the use of hardware, software, and other information technology resources, which can be expensive [12].

Despite the considerable startup or implementation costs, CRM systems have the capacity to effectively integrate with other technology-based data collection methods, including digital healthcare records, hospital information systems, laboratory reporting, and various electronic health records [12]. In light of the financial implications of adopting data management reforms, organizations should carefully weigh the myriad benefits associated with implementing CRM systems. With a sustainable approach and sufficient training, successful integration of CRM systems is achievable [8]. Employing evidence-based CRM adoption frameworks may ease the transition process and enhance the efficacy of change initiatives. Empowered clients and employees are a crucial factor in the overall success of CRM system implementation, despite the challenges and complexities that may arise [14].

Moreover, CRM systems have often been utilized to address specific, well-defined issues, which can result in a misalignment between overarching organizational objectives and the maximization of CRM potential in refugee case management. However, these systems hold the potential to bring about comprehensive organizational transformation [15]. As a result, organizations should recognize the broader benefits of CRM systems and consider their capacity to drive lasting, positive change within the context of refugee case management. By doing so, organizations can leverage the power of CRM systems to more effectively serve the needs of refugees and improve the efficiency of their operations.

5) Real-World Applications of CRM in Refugee Management

Typically, case management systems permit data entry on each refugee, including specifics about each interaction, so that multiple staff members can record and evaluate their information. It is an excellent alternative to regularly misplaced paper documents. While some CRM applications create files stored internally in computer server systems of organizations, cloud-based applications enable assurance that all data will be safe, secured, protected, and never lost to user errors, theft or natural disasters, or other ways that computer-aided data get lost every day.

Blockchain technology inside a CRM system can assist in systematizing and stabilizing the enormous issue of refugee identification, such as using a unique universal identification number, but also establishing a safe means by which an infinite number of digits might be generated. [16] Given the

relevance of refugee identification and the convenience of access, refugee organizations may not reach their full potential worth if technological innovations are not used throughout all work practices and activities. [17]

Other CRM systems automatically employ ranking methods. Another CRM system, for instance, uses scoring systems to identify individuals who may fall between the cracks and require further services or assistance. [2] A second example demonstrates the need for a relational approach to refugee workforce inclusion. [18] In such instances, organizations have compiled a database of partners to whom they might direct persons seeking employment, particularly when their talents are broad.

Studies in other fields have previously demonstrated that CRM systems are associated with safety tools that preserve adherence to new work practices and enhance staff and client skills, outcomes, and organizational culture as a whole. [19] Other studies have demonstrated a correlation between providing extended care services and improved financial results through suitable employment and independence. [20] Extensive refugee case management is complex, to say the least, in the absence of the technology required to track clients and resources. In addition, quick choices may be made when data and reporting are readily accessible, hence enhancing the coordination of services.

3. Conclusion

Standardizing refugee case management is crucial for optimizing organizational efficiency and ensuring the full effectiveness of humanitarian aid efforts. The integration of CRM systems into case management processes offers a multitude of benefits, such as accurate identification of refugees, efficient distribution of assistance, and long-term sustainability. In light of the substantial increase in the number of refugees in recent years, and the anticipated continued surge in displaced persons, it is vital to have prompt access to individual information for tracking service provision effectively [21]. Such contemporary case management systems prove advantageous not only for the refugees but also for the organizations implementing them. Through these systems, some operations can be automated, making it easier to obtain actionable data, and sustainability can be achieved by adhering to regulatory compliance standards. CRM systems present technology-driven, real-time, and practical solutions to organizations that grapple with the complexities of refugee case management, despite the challenges in implementing such systems.

By embracing CRM systems, organizations can streamline their processes, improve data management, and facilitate better coordination among various stakeholders involved in refugee support. The ability to centralize and share information through CRM systems enables organizations to make more informed decisions, allocate resources more effectively, and tailor their support programs to address the specific needs of refugees. Moreover, CRM systems can enhance communication between different organizations, thereby fostering collaboration and ensuring that refugees receive the necessary aid and services in a timely and efficient manner. While the implementation of CRM

systems may be intricate, the long-term benefits of enhanced efficiency, improved data management, and better coordination among stakeholders far outweigh the initial complexity. As the number of displaced persons continues to rise, it becomes increasingly important for organizations to adopt innovative approaches like CRM systems to address the growing needs of refugees effectively. Ultimately, the successful integration of CRM systems in refugee case management will contribute to a more comprehensive and efficient humanitarian response, empowering refugees to rebuild their lives in their new communities.

4. Future Scope

The future scope of this research paper lies in exploring the potential of standardizing refugee case management to optimize organizational efficiency and enhance the overall effectiveness of humanitarian aid efforts. The integration of CRM systems into case management processes has the potential to offer numerous benefits, including the precise identification of refugees, streamlined distribution of assistance, and the promotion of long-term sustainability. Considering the significant increase in the number of refugees in recent years and the expected continued surge in displaced persons, it is crucial to have timely access to individual information to effectively track service provision [21]. The implementation of modern case management systems can prove advantageous not only for refugees but also for the organizations involved. With CRM systems, certain operations can be automated, making it simpler to obtain actionable data, and sustainability can be achieved through compliance with regulatory standards. Despite the challenges associated with implementing such systems, CRM solutions offer technology-driven, real-time, and practical approaches for organizations grappling with the complexities of refugee case management.

Future research could delve deeper into the potential of CRM systems to streamline organizational processes, improve data management, and facilitate enhanced coordination among various stakeholders engaged in refugee support. By centralizing and sharing information through CRM systems, organizations can make more informed decisions, allocate resources more effectively, and tailor their support programs to better address the specific needs of refugees. Additionally, CRM systems can foster communication and collaboration between different organizations, ensuring that refugees receive essential aid and services in a timely and efficient manner. Although the implementation of CRM systems may be complex, future studies could investigate strategies for overcoming these challenges and maximizing the long-term benefits of enhanced efficiency, improved data management, and better coordination among stakeholders. As the number of displaced persons continues to rise, it is increasingly important for organizations to adopt innovative approaches, such as CRM systems, to address the growing needs of refugees effectively.

Ultimately, future research should focus on the successful integration of CRM systems in refugee case management and its potential to contribute to a more comprehensive and efficient humanitarian response. By empowering refugees to

rebuild their lives in their new communities, organizations can play a crucial role in shaping a more inclusive and supportive global landscape for individuals impacted by displacement. The potential for CRM systems to revolutionize refugee case management and the provision of humanitarian aid should not be underestimated, and continued exploration in this area will undoubtedly yield valuable insights and opportunities for growth.

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