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Assistance to Disabled Persons (ADIP) Scheme

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ABSTRACT :

The ADIP scheme has been a game-changer for Persons with Disabilities (PwDs), providing essential aids and appliances like hearing aids, wheelchairs, and prosthetic limbs. However, to make this program more accessible and efficient, the government has introduced the ADIP App. This research paper delves into the impact of this app, examining its user-friendly design and practical functions. The ADIP App simplifies the registration process for PwDs by allowing them to input crucial personal information such as name, age, type of disability, and income. This information is vital for accessing the scheme's benefits, which can greatly improve the lives of disabled individuals. Moreover, the app facilitates the allotment of slots for collecting appliances from government depots. Additionally, it is designed to be user-friendly for Marathi speakers, catering to the regional needs of the state's residents.

Keywords: ADIP, Disability, Handicapped, Help/Scheme, Mobile App.

1. Introduction :

In the modern world, the government's commitment to enhancing the lives of Persons with Disabilities (PwDs) remains unwavering. The Assistance to Disabled Persons for Distributing of Aids and Appliances (ADIP) scheme is a testament to this commitment, a vital initiative that strives to empower PwDs by providing them with essential aids and appliances[1]. These devices play a crucial role in bringing independence and dignity to the disabled community. However, reaching and assisting the intended beneficiaries of the ADIP scheme has historically presented challenges. The traditional registration process was ruined by its complexity and time-consuming nature, effectively discouraging PwDs seeking to avail themselves of the scheme's benefits. This, in turn, creates an unfortunate lack of accessibility to the very support intended to improve the lives of those in need. In recognition of these issues, the government has taken a significant stride towards creating a more inclusive society by introducing a pioneering solution - the ADIP App. This research paper delves into the transformative role of this App in streamlining the registration process and enhancing accessibility for PwDs to access the scheme's much-needed benefits.

1.1. Improved Effectiveness of the ADIP Scheme

The effectiveness of any government welfare scheme hinges on the ease with which its intended beneficiaries can avail themselves of the offered benefits. The introduction of the App has marked a positive shift in the overall effectiveness of the ADIP scheme. Timely information updates, document verification, and simplified procedures contribute to the enhanced effectiveness of the scheme, ensuring that it better serves its core purpose. Moreover, the availability of the App in Marathi and the utilization of text-to-speech (TTS) technology further facilitate accessibility for users, particularly within the state, making it easier for them to navigate the system and access the support they need.

1.2. The Road to Inclusivity

This research underscores the significance of the App for Registration of Persons with Disability under the ADIP scheme in facilitating inclusivity. It is a step toward leveling the playing field, offering equal opportunities to persons with disabilities and improving their quality of life. The App signifies a commitment to promoting a more inclusive society where individuals with disabilities can lead lives that are both fulfilling and dignified. In conclusion, the App's introduction has the potential to transform the ADIP scheme into a more effective and inclusive platform. By streamlining the registration process and offering greater accessibility, it brings the scheme one step closer to fulfilling its mission of supporting people with disabilities in their pursuit of a more independent and dignified life.

1.3. Enhancing Accessibility and Inclusivity

The high levels of user satisfaction and ease of registration reported by participants are indicative of the App's role in enhancing accessibility to the ADIP scheme. The user-friendly interface and simplified registration process have successfully addressed many of the challenges that had previously

1.4. Impact on the ADIP Scheme's Effectiveness

A critical finding of this study is the potential for the App to improve the overall effectiveness of the ADIP scheme. With increased accessibility and efficiency, the scheme can reach a wider audience, fulfilling its core objectives. The App's contribution to streamlining the registration process, providing timely information, and ensuring the authenticity of beneficiaries has the potential to reduce the chances of fraud and enhance transparency. This aligns with broader discussions on the effectiveness of government welfare schemes.

2. Related Work

The Indian government's ADIP scheme is a big achievement—it shows they care about people with disabilities. The scheme gives out aids like hearing aids, wheelchairs, and artificial limbs, which can change the lives of disabled people, helping them do things on their own and do daily tasks easily. It follows rules from both international agreements and Indian laws, like the United Nations Convention on the Rights of Persons with Disabilities and the Rights of Persons with Disabilities Act, of 2016. These laws make sure that disabled people have the same chances as everyone else.

3. Methodology

Now, let's talk about the ADIP registration App. It plays a major role because it makes signing up for the scheme much easier. Before, it was a headache, but now, with the app, it's a simpler task to perform. And this is all part of the government's promise to make sure disabled people have what they need to live their best lives.

3.1. Scheme Overview

The ADIP scheme is super important for the government because it shows they care about people with disabilities. It's all about giving money to help disabled people get the tools they need to make their lives better. These tools can be anything from hearing aids to wheelchairs, and they make a huge difference in how disabled people can live their lives. Now, the thing about this scheme is that it's open to all kinds of disabled people, no matter how old they are or what disability they have. Plus, they consider how much money someone has, so they can help those who need it the most.

And get this—there's enough money set aside to make sure the program works. So, disabled people can get the support they need to talk, move around, and do things on their own. But here's the catch: the old way of signing up for the scheme was a real pain. It took forever and was complicated. This meant that a lot of disabled people missed out on getting the help they needed.

But guess what? The government came up with a solution: the ADIP registration App. This app is all about making it easy for disabled people to sign up for the scheme. It's super easy to use and helps remove all the hurdles that are stopping people from getting the help they deserve. So, this research paper is going to dig deep into how this app is making a real difference in the lives of disabled people. It's all about breaking down barriers and making sure everyone has a fair shot at living their best life.

This study employs a mixed-methods approach to comprehensively assess the effectiveness of the App for Registration and allotting of aids for Persons with Disabilities (PwDs) under the Assistance to Disabled Persons for Distributing of Aids and Appliances (ADIP) scheme. This mixed-methods design combines both qualitative and quantitative data collection and analysis to provide a holistic understanding of the App's impact.

3.2. Data Collection

A survey was conducted among registered PwDs who have used the App for ADIP scheme registration. The survey included a structured questionnaire with closed-ended questions. The questionnaire was designed to capture demographic information, user satisfaction levels, ease of registration, and perceived improvements in accessibility and efficiency.

Qualitative Data Collection:

In-depth interviews were conducted with a sample of PwDs who have registered using the App. These semi-structured interviews allowed for openended discussions to gain deeper insights into their experiences and perceptions of the App. This qualitative approach helped them understand the nuances of their interactions with the App and any challenges they encountered.

3.3. Data Sources

Survey Data: Data from the surveys were collected both online through the App and through in-person interviews with PwDs who might not have digital access. A stratified sampling method was used to ensure diversity in terms of age, disability type, and income level. Interview Data: Interviews were conducted in person and, when necessary, via video conferencing to accommodate the geographical spread of participants. These interviews were recorded, transcribed, and analysed.

Libraries Used: - firebase_core, firebase_auth, google Apis , urllink_launcher , firebase_storage ,cloud_firestore and firebase_admin,flutter_tts. Languages Used: - Dart, framework - flutter, backend - firebase, Firestore. The quantitative data collected from the survey were analysed using statistical software. Descriptive statistics such as frequencies, means, and standard deviations were calculated to understand user satisfaction, ease of use, and demographic characteristics. Inferential statistical tests such as chi-square and t-tests were performed to identify significant relationships and differences.

The qualitative data from the interviews were analysed using thematic analysis. The transcribed interviews were coded and grouped into themes to identify common patterns, experiences, and challenges. These themes were then integrated into the overall findings.

4. Results Discussion

The registration App for the Assistance to Disabled Persons for Purchase/Fitting of Aids and Appliances (ADIP) scheme is a game-changer. Its simple and easy-to-use design has the power to completely transform how the scheme works, making life better for a lot more people with disabilities. this app is available in Marathi, which is a big win for the locals. It means that people in the state can easily understand and use it without any trouble. And here's the best part: text-to-speech (TTS) technology has played a huge role in making the app even more accessible. This means that people who have trouble reading can still use the app because it can read out the text for them.Overall, this app is a big deal. It's making it easier for people with disabilities to get the support they need to live their lives to the fullest. And that's something worth celebrating.

4.1. Streamlined and Accessible Registration

The implementation of the App has notably simplified the registration process, removing barriers that historically deterred persons with disabilities from participating in the scheme. By digitizing the registration process, users no longer face the cumbersome paperwork and time-consuming procedures of the traditional method. The App's intuitive interface has successfully created an inclusive platform where individuals can independently and efficiently register for the ADIP scheme.

4.2. Potential for Wider Impact

The App's user-friendly approach is not just a matter of convenience; it has the potential to significantly expand the reach and impact of the ADIP scheme. With greater accessibility, more people with disabilities are poised to access the vital support they require, from hearing aids to wheelchairs and prosthetic limbs. This broader reach aligns with the core objectives of the scheme, furthering the goal of creating a more inclusive society.

4.3. DISCUSSION

The findings of this study underscore the significance of the App for Registration of Persons with Disability under the Assistance to Disabled Persons for Purchase/Fitting of Aids and Appliances (ADIP) scheme as a transformative tool that can enhance the scheme's impact and promote inclusivity. This discussion section delves into the implications of the results, the broader context of government welfare schemes for persons with disabilities, and areas for further research.

4.4. SNAPSHOTS

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Fig. 1 - Snapshot 1- Login Page

Explanation: The login page serves as the initial point of entry for users into the ADIP Scheme Application. It is designed to offer a secure and userfriendly interface for individuals to authenticate themselves. The snapshot of the login page provides a visual representation of key elements such input fields for username and password, ensuring a seamless and accessible login process.

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Fig. 2 - Snapshot 2-Login Form

Explanation: The login page of the ADIP Scheme Registration App verifies user credentials for secure access. Users enter their username/email and password to authenticate. Upon successful login, users can manage their registration details and track applications. Security measures protect sensitive data during the authentication process.



Fig. 3 - Snapshot 3- Schemes

Explanation: The applied scheme section pertains to the status and details of schemes that users have applied for. The snapshot in this section would display information about the applied schemes, their status, and any relevant updates. This feature aims to keep users informed about the progress of their applications within the ADIP Scheme.

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Fig. 4 - Snapshot 4- Schemes Details

Explanation: The" Scheme Details" section offers concise yet comprehensive information on specific schemes within the ADIP Scheme platform. It outlines eligibility criteria, benefits, application procedures, and contact details, empowering users to make informed decisions. This section serves as a vital resource, facilitating accessibility and enabling users to maximize scheme benefits effectively.

5. Conclusion

The App for Registration of Persons with Disability under the ADIP scheme stands as a transformative tool in the realm of government welfare initiatives. Its integration of text-to-speech (TTS) technology and availability in Marathi significantly enhance accessibility and usability for users within the state, contributing to a more inclusive society for persons with disabilities. By streamlining processes and improving efficiency, the app has the potential to reshape the landscape of welfare schemes, ultimately bolstering the effectiveness of the ADIP scheme. These findings underscore the importance of ongoing research and policy efforts to capitalize on the app's benefits and further advance the goal of inclusivity for individuals with disabilities.

5.1. Limitations and Areas for Future Research

It is important to acknowledge the limitations of this study, including potential response bias and the relatively small sample size in the qualitative interviews. Further research can explore the long-term impact of the App, potential challenges faced by users with severe cognitive impairments, and opportunities for continuous improvement in the App's design.

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