

Preface

The development of mobile applications has transformed the landscape of technology and human interaction, profoundly impacting our daily lives. With smartphones serving as ubiquitous tools for communication, navigation, and productivity, the potential for leveraging mobile applications to address real-world challenges and enhance everyday experiences is vast. In response to this evolving technological landscape, the project titled "Development of Android Application for Data Collection and Daily Life Uses using Mobile GIS" was conceived. This project aims to explore the possibilities offered by mobile Geographic Information Systems (GIS) technology to create a versatile and user-friendly Android application tailored for data collection and daily utility.

The inspiration behind this project stems from the increasing importance of Geographic Information Systems (GIS) in various domains, ranging from urban planning and environmental management to public health and disaster response. Harnessing the power of mobile GIS technology, our objective was to develop an Android application that seamlessly integrates data collection functionalities with everyday utilities, thereby empowering users to contribute to data-driven decision-making processes while enhancing their daily life experiences. The project journey commenced with meticulous planning and project setup, laying the groundwork for subsequent development phases. Key features such as the Splash Screen, Dashboard, Survey Functionality, User Interaction, and Nearby Services Screens were meticulously designed and developed to ensure a seamless and intuitive user experience. Throughout the development process, emphasis was placed on user-centric design principles, with a focus on intuitive navigation, visually appealing interfaces, and responsive interaction.

A notable aspect of our application is its capability to facilitate data collection through user-generated surveys, augmented by real-time location services. By empowering users to contribute valuable data while on the move, our application aims to enrich its database and enhance its utility for various stakeholders, including researchers, policymakers, and community members.

In addition to its data collection capabilities, the application provides access to essential services such as hospitals, police stations, hotels, and fire stations through integrated GIS functionalities. This holistic approach aims to address both data collection needs and everyday utility requirements, making the application a versatile tool for a wide range of users.

In conclusion, we are excited to present the outcomes of this project and believe that our Android application holds the potential to make a meaningful contribution to data collection efforts and everyday life experiences. We invite readers to explore the contents of this report and discover the innovation and possibilities inherent in mobile GIS application