**Report on Business Card App Code**

**Abstract**

This report presents an overview of an Android application developed using Jetpack Compose, designed to display a digital business card. The app provides user information, including name, title, and contact details, utilizing modern UI design principles.

**Introduction**

The Business Card App is an Android application that demonstrates the use of Jetpack Compose for building UI components. The app features a structured layout with a main display for the user’s name and title, along with a separate contact information section. The goal of the application is to create an elegant and efficient way to present professional

contact details.

**Methods**

The application follows a modular approach, where different UI components are separated into composable functions. Key methods include:

* **MainActivity**: Initializes the app and sets up the UI using Jetpack Compose.
* **MainScreen**: Displays the primary business card details, including the name, title, and logo.
* **ContactBox**: Arranges and displays the contact information with corresponding icons.
* **Icon Functions**: PhoneIcon, ShareIcon, and EmailIcon create structured and visually appealing icon-based contact details.
* **Theming and Layout Management**: Utilizes Scaffold, Surface, Box, Row, and Column for effective UI structuring.

**Testing**

Testing of the Business Card App was conducted using:

* **Jetpack Compose Preview**: Ensuring UI components render correctly in Android Studio.
* **Manual Testing on Emulator and Physical Device**: Verifying responsiveness, alignment, and usability.
* **Edge-to-Edge Display Verification**: Checking the seamless extension of UI elements across screen edges.

**Detailed Results**

The Business Card App successfully renders a structured digital card with distinct sections for user details and contact information. The implementation of Jetpack Compose enhances performance, ensuring a smooth and responsive experience. The UI components are modular, making future modifications easier. The application adheres to modern Android development principles, leveraging Compose’s declarative UI approach.

The Scaffold component ensures a consistent layout, while Surface provides a themed background. The Row and Column structures effectively align text and icons, ensuring clarity in displaying contact information. The business card’s logo is contained within a Box with appropriate size constraints.

Overall, the Business Card App functions as intended, providing an elegant and structured display of user information using Jetpack Compose.