Software Development IV
CSE 400

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📱 Project Proposal: Pack Your Bag - Travel Checklist Organizer

📝 Project Title

Pack Your Bag – An Android App for Organizing Travel Essentials

📌 Project Summary

Pack Your Bag is a user-friendly Android application designed to help travelers organize and manage their travel essentials. Whether you're going on a business trip, family vacation, or short journey, this app ensures you never forget an item again. The app allows users to select items from predefined categories, add custom items, and manage selections with real-time interactivity and local storage integration.

🎯 Project Objectives

- To develop an intuitive Android application that assists users in managing packing lists for travel.

- To enable category-based selection of travel essentials (e.g., clothing, toiletries, tech gear, baby needs).

- To allow creation and modification of custom checklists.

- To use a **local database** (e.g., SQLite) for storing and retrieving user data.

- To implement splash screen, RecyclerViews, dialogs, and back-press functionalities.

- To provide customization options like resetting data, deleting defaults, and viewing selected items.

- To integrate social and branding elements like links to YouTube, Instagram, and contact options.

🔧 Technologies Used

- **Platform**: Android (Java/Kotlin)

- **IDE**: Android Studio

- **Database**: SQLite (Local DB)

- **UI Components**: RecyclerView, GridView, Dialogs, Buttons

- **Libraries**: Material Components, Glide/Picasso for images (optional)

- **Others**: SharedPreferences, Intent handling, Local notifications (if needed)

🔍 Key Features

1. **Splash Screen**

   - Displays for 1.5 seconds on app launch.

2. **Home Dashboard**

   - Categories: Basic Needs, Clothing, Personal Care, Baby Needs, Technology, Food, Health, Car Supplies, etc.

3. **Item Management**

   - Check/uncheck to mark items as packed/unpacked.

   - Add new items dynamically to any category.

   - Delete items individually with confirmation dialogs.

4. **My Selections**

   - View all selected items across categories.

   - Toggle to unselect/remove items.

5. **My List**

   - Add and manage custom packing items.

   - Items from this section also appear in My Selections.

6. **Reset and Delete Options**

   - Reset a category to its default state.

   - Delete only default data while preserving custom entries.

7. **Exit Functionalities**

- Double back press to exit.

- Dedicated exit button in menu.

8. **About Us Section**

- Links to YouTube, Instagram, Twitter.

- Contact email for app inquiries and purchases.

📈 Target Users

- Frequent travelers

- Event planners

- Business professionals

- Students relocating or commuting

- Anyone who wants to stay organized while packing

📂 Deliverables

- Fully functional Android application (APK)

- Source code with documentation

- UI assets and icons used

- User guide or demo video (optional)

- Project report (if required)

Conclusion

Pack Your Bag is a practical and purposeful app that addresses a common problem for travelers — forgetting essential items. With a clean UI, responsive functionality, and support for customization, the app aims to be an essential companion for all kinds of journeys.