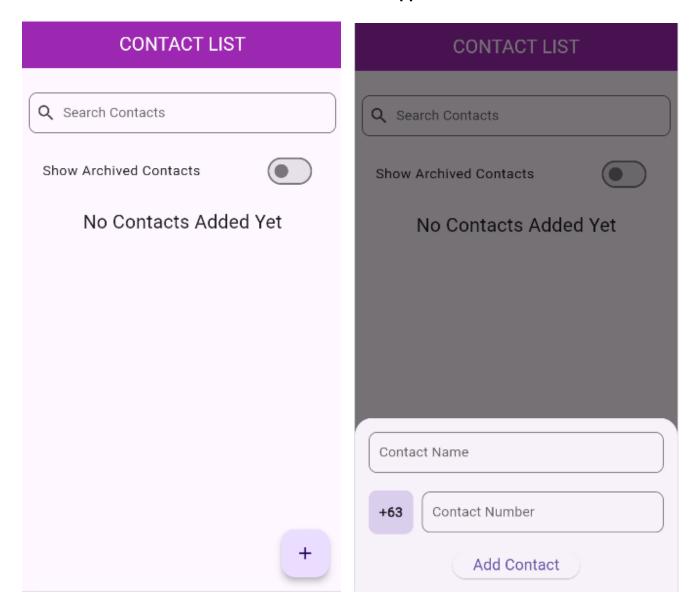
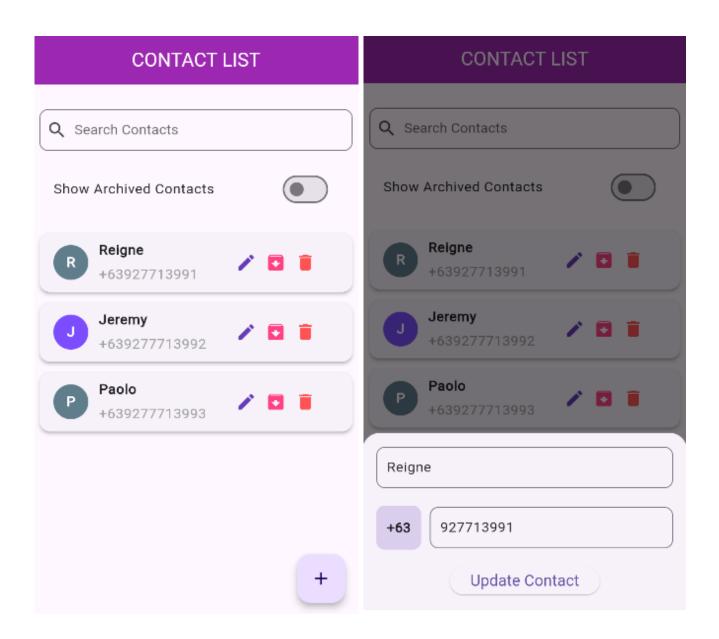
Screenshot of the Mobile Application



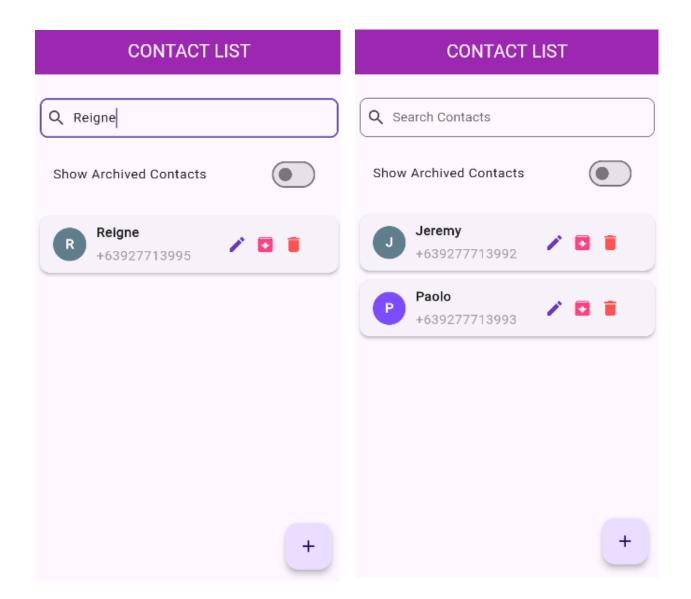
Without Added Contacts

Add Contact



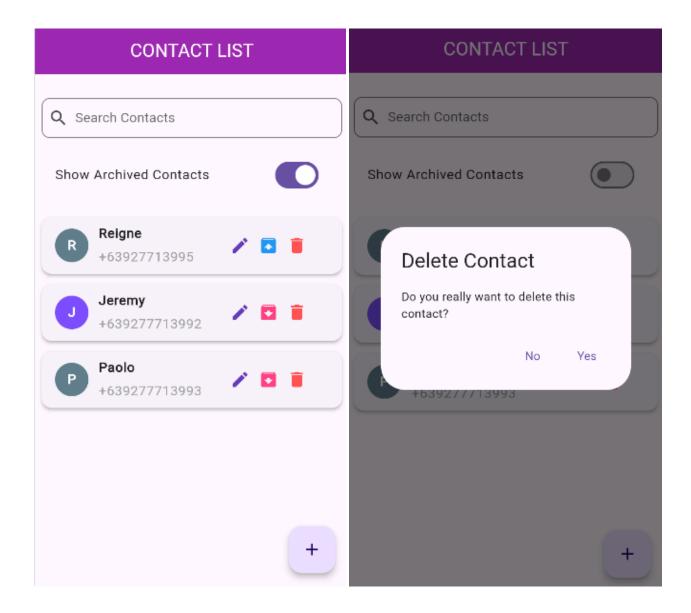
With Added Contacts

Update Contact



Search Function

Archived not Shown



Show Archived Contacts

Delete Contact

User can Unarchive through the blue button

Summary of the Functions of Mobile App

In the mobile contact list app, users can easily manage their contacts by creating, editing, and deleting them. They can also archive or unarchive contacts as needed. A search function was also included to help the user quickly find specific contacts in the list.

Edit Contact

Create Contact

Archive Contact

Unarchive Contact

Delete Contact

Main.dart

```
import 'package:new contact list/home page.dart';
import 'package:flutter/material.dart';
void main() {
 runApp(const MyApp());
class MyApp extends StatelessWidget {
 const MyApp({super.key});
 @override
 Widget build(BuildContext context) {
  return MaterialApp(
   title: "CONTACT LIST",
   debugShowCheckedModeBanner: false,
   theme: ThemeData(
    primarySwatch: Colors.purple,
   home: const HomePage(),
                                        Contact.Dart
import 'package:flutter/material.dart';
import 'contact.dart';
class HomePage extends StatefulWidget {
 const HomePage({super.key});
 @override
 State<HomePage> createState() => HomePageState();
}
class HomePageState extends State<HomePage> {
 final TextEditingController nameController = TextEditingController();
 final TextEditingController contactController = TextEditingController();
 final TextEditingController searchController = TextEditingController();
 List<Contact> contacts = List.empty(growable: true);
 List<Contact> filteredContacts = List.empty(growable: true);
 int? selectedContactIndex;
 bool showArchived = false;
 @override
 void initState() {
  super.initState();
  searchController.addListener(() {
   filterContacts();
```

```
});
}
@override
void dispose() {
 nameController.dispose();
 contactController.dispose();
 searchController.dispose();
 super.dispose();
}
void addOrUpdateContact() {
 String name = nameController.text.trim();
 String contact = contactController.text.trim();
 if (name.isEmpty || contact.isEmpty) {
  return;
 }
 contact = '+63' + contact;
 setState(() {
  if (selectedContactIndex == null) {
   contacts.add(Contact(name: name, contact: contact));
  } else {
   contacts[selectedContactIndex!] = Contact(name: name, contact: contact);
   selectedContactIndex = null;
  nameController.clear();
  contactController.clear();
  filterContacts();
 });
 Navigator.pop(context);
void editContact(int index) {
 setState(() {
  selectedContactIndex = index;
  nameController.text = filteredContacts[index].name;
  contactController.text = filteredContacts[index].contact.replaceFirst('+63', ");
 });
 showContactModal();
Future<void> archiveContact(int index) async {
 setState(() {
  filteredContacts[index].isArchived = true;
  filterContacts(); // Update the filtered list
});
}
```

```
Future<void> unarchiveContact(int index) async {
  setState(() {
   filteredContacts[index].isArchived = false;
   filterContacts(); // Update the filtered list
});
}
 Future<void> deleteContact(int index) async {
  bool? confirm = await showDeleteConfirmationDialog();
  if (confirm == true) {
   setState(() {
     contacts.removeAt(contacts.indexOf(filteredContacts[index]));
     filterContacts(); // Update the filtered list
     if (selectedContactIndex == index) {
      selectedContactIndex = null;
      nameController.clear();
      contactController.clear();
   });
 Future<bool?> showDeleteConfirmationDialog() {
  return showDialog<bool>(
   context: context,
   barrierDismissible: false,
   builder: (BuildContext context) {
     return AlertDialog(
      title: const Text('Delete Contact'),
      content: const Text('Do you really want to delete this contact?'),
      actions: <Widget>[
       TextButton(
        onPressed: () => Navigator.of(context).pop(false),
        child: const Text('No'),
       TextButton(
        onPressed: () => Navigator.of(context).pop(true),
        child: const Text('Yes'),
 void filterContacts() {
  String query = searchController.text.toLowerCase().trim();
  setState(() {
   filteredContacts = contacts.where((contact) {
     if (!showArchived && contact.isArchived) return false;
```

```
return (contact.name.toLowerCase().contains(query) ||
       contact.contact.contains(query));
   }).toList();
});
});
 void showContactModal() {
  showModalBottomSheet(
   context: context,
   isScrollControlled: true,
   shape: const RoundedRectangleBorder(
     borderRadius: BorderRadius.vertical(top: Radius.circular(20)),
   builder: (context) {
     return Padding(
      padding: EdgeInsets.only(
       bottom: MediaQuery.of(context).viewInsets.bottom,
       left: 16,
       right: 16,
       top: 16,
      child: Column(
       mainAxisSize: MainAxisSize.min,
       children: [
        TextField(
          controller: nameController,
          decoration: const InputDecoration(
           hintText: "Contact Name",
           border: OutlineInputBorder(
            borderRadius: BorderRadius.all(Radius.circular(10)),
           ),
          ),
        const SizedBox(height: 20),
        Row(
          children: [
           Container(
            padding: const EdgeInsets.symmetric(horizontal: 12, vertical: 14),
            decoration: BoxDecoration(
              color: Colors.deepPurple.withOpacity(0.2),
              borderRadius: BorderRadius.circular(10),
            ),
            child: const Text(
              "+63",
              style: TextStyle(
               fontSize: 16,
               fontWeight: FontWeight.bold,
             ),
            ),
           const SizedBox(width: 10),
```

```
Expanded(
            child: TextField(
             controller: contactController,
             keyboardType: TextInputType.number,
             maxLength: 10,
             decoration: const InputDecoration(
               counterText: "",
               hintText: "Contact Number",
               border: OutlineInputBorder(
                borderRadius: BorderRadius.all(Radius.circular(10)),
        const SizedBox(height: 20),
        ElevatedButton(
          onPressed: addOrUpdateContact,
          child: Text(selectedContactIndex == null? "Add Contact": "Update Contact", style:
TextStyle(fontSize: 18),),
        ),
        const SizedBox(height: 20),
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(
     centerTitle: true,
     backgroundColor: Colors.purple,
     title: const Text("CONTACT LIST", style: TextStyle(color: Colors.white),),
   body: Padding(
     padding: const EdgeInsets.all(8.0),
     child: Column(
      children: [
       const SizedBox(height: 20),
       TextField(
        controller: searchController,
        decoration: const InputDecoration(
          hintText: "Search Contacts",
          border: OutlineInputBorder(
           borderRadius: BorderRadius.all(Radius.circular(10)),
          prefixIcon: Icon(Icons.search),
```

```
),
      const SizedBox(height: 20),
      SwitchListTile(
       title: const Text("Show Archived Contacts"),
       value: showArchived,
       onChanged: (value) {
        setState(() {
          showArchived = value;
          filterContacts();
        });
      const SizedBox(height: 20),
      filteredContacts.isEmpty
        ? const Text(
       "No Contacts Added Yet",
       style: TextStyle(fontSize: 22),
        : Expanded(
       child: ListView.builder(
        itemCount: filteredContacts.length,
        itemBuilder: (context, index) => getRow(index),
       ),
  floatingActionButton: FloatingActionButton(
   onPressed: () {
     selectedContactIndex = null;
     nameController.clear();
     contactController.clear();
     showContactModal():
   child: const lcon(lcons.add),
  ),
);
Widget getRow(int index) {
 return Card(
  margin: const EdgeInsets.symmetric(vertical: 6),
  child: ListTile(
   leading: CircleAvatar(
     backgroundColor: index % 2 == 0 ? Colors.blueGrey : Colors.deepPurpleAccent,
     foregroundColor: Colors.white,
     child: Text(
      filteredContacts[index].name[0].toUpperCase(),
      style: const TextStyle(fontWeight: FontWeight.bold),
```

```
),
title: Column(
 crossAxisAlignment: CrossAxisAlignment.start,
 children: [
  Text(
   filteredContacts[index].name,
   style: const TextStyle(fontWeight: FontWeight.bold),
  const SizedBox(height: 4),
  Text(
   filteredContacts[index].contact,
   style: const TextStyle(color: Colors.grey),
  ),
],
trailing: SizedBox(
 width: 120,
 child: Row(
  children: [
   const SizedBox(width: 10),
   InkWell(
     onTap: () => editContact(index),
     child: const Icon(Icons.edit, color: Colors.deepPurple),
   const SizedBox(width: 10),
   if (filteredContacts[index].isArchived)
     InkWell(
      onTap: () => unarchiveContact(index),
      child: const lcon(lcons.unarchive, color: Colors.blue),
   else
     InkWell(
      onTap: () => archiveContact(index),
      child: const lcon(lcons.archive, color: Colors.pinkAccent),
   const SizedBox(width: 10),
   InkWell(
     onTap: () => deleteContact(index),
     child: const lcon(lcons.delete, color: Colors.redAccent),
```

```
class Contact {
    String name;
    String contact;
    bool isArchived;

Contact({required this.name, required this.contact, this.isArchived = false});
}
```