MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI

GOVERNMENT POLYTECHNIC KARAD

THIRD YEAR DIPLOMA COMPUTER ENGINEERING (I-SCHEME)

PART [B]

MICRO-PROJECT REPORT

"PET FOOD ORDER APP"

UNDER THE SUBJECT

MOBILE APPLICATION DEVELOPMENT (22617)

SUBMITTED BY

Sr.no	Roll No	Enrollment No	Name of Team Member
1.	2251	2100100053	Pratik Pramod Shejwal
2.	2254	2100100056	Shravani Bharat Mahajan
3.	2260	2100100063	Riya Sunil Kharade

UNDER THE GUIDANCE

Mrs. K.P.Kumbhar

(DEPARTMENT OF COMPUTER ENGINEERING)

2023-24

MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI.

Certificate of completion

Of Micro-project Assessment at the end of Semester

This is to certify that,

Sr.no	Roll No	Enrollment No	Name of Team Member
1.	2251	2100100053	Pratik Pramod Shejwal
2.	2254	2100100056	Shravani Bharat Mahajan
3.	2260	2100100063	Riya Sunil Kharade

Has successfully completed **"Pet Food Order App"** Micro-project of the sixth semester Diploma in Computer Engineering of subject Mobile Application Development (22617) from Government Polytechnic Karad. Institute with Institute code (0010).

Mrs.K.P.Kumbhar	**Prof. S. B. Patil**	**Dr K.M.Bagwan**
(Project Guide)	(Head of the department.)	(Head of Institute)

Seal of the institute

ACKNOWLEDGEMENT

We take this opportunity to thank all those who have directly and indirectly inspired, directed and assisted us towards successfully completion of this project report.

We express our sincere thanks to Dr K.M.Bagwan Principal of Government Polytechnic, Karad and the Head of Department Prof. Patil S.B, for having us allowed to submit this report as a part of our academic learning.

We express our sincere thanks to Mrs.K.P.Kumbhar Lecturer in Computer Engineering, Govt. Polytechnic, Karad for encouragement throughout the project report and guideline in designing and working out this project. We are also grateful to team of project.

Place: Government polytechnic Karad

Date: 01/04/2024

Yours Sincerely,

2251-Pratik Pramod Shejwal

2254-Shravani Bharat Mahajan

2260-Riya Sunil Kharade

➢ RATIONALE:

The micro-project is about making an app for ordering pet food on Android. It will have three main parts. The first part is the Product Variety Page, where users can see many types of pet food in a fun way. The second part is the Product Order Page, which makes it easy to buy pet food quickly. And the last part is the Login Page, where users can sign in to their accounts for security and to access special features. These three parts together will make the app easy to use and enjoyable for pet owners.

➢ AIM AND BENEFITS:

◉ AIM:

1) **Simplify Pet Food Ordering:**
   The aim is to create an app that simplifies the process of ordering pet food for pet owners, reducing the time and effort required to purchase the necessary supplies.

2) **Enhance User Experience:**
   The goal is to provide users with a seamless and engaging experience while browsing, selecting, and purchasing pet food through the app, making it convenient and enjoyable.

◉ BENEFITS:

1) **Convenience:**
   Users can conveniently browse through a wide variety of pet food options, place orders, and make payments all within the app, eliminating the need to visit physical stores or multiple websites**.**

2) **Personalization:**
   The app can offer personalized recommendations based on users' past purchases and preferences, enhancing the shopping experience and ensuring that users find the most suitable products for their pets.

➢ COURSE OUTCOMES:

CO A] Interpreted features of Android operating system.

CO B] Configure Android environment and development tools

CO C] Develop rich user Interfaces by using layouts and controls.

CO D] Use User Interface components for android application development.

CO E] Create Android application using database.

➢ LITERATURE REVIEW:

1. We referred book, Book Name is “Android Programmers For Beginners” by John Horton
2. We referred following link:
    a) https://developer.android.com/studio/intro
    b) https://developer.android.com/training/data-storage/sqlite
    c) https://developer.android.com/reference/android/content/Intent
    d) https://developer.android.com/reference/android/widget/Adapter

➢ ACTUAL PROPOSED METHODOLOGY

1) Think of ideas for an app.
2) Choose to make a pet food ordering app for Android.
3) Learn how the app should work.
4) Create the app's look and functions using XML and Java.
5) Add features like signing in, browsing pet food, and ordering.
6) Set up a place to store app info using SQLite or Firebase.
7) Write a report about making the app.
8) Show the report and finish the app tasks.

➢ ACTUAL RESOURCES REQUIRED:

No	Name of the Resource	Specifications	Quantity
1	Computer System	At least 4GB RAM, i5 Processor	1
2	Software	Android Studio 2023 HedgeDog	1

➢ OUTPUT OF MICROPROJECT

1. PROGRAM CODE:

```
package com.example.project;

public class MainActivity extends AppCompatActivity {

public DrawerLayout drawerLayout;

CardView cvProducts, cvOrders, cvProfile;

public ActionBarDrawerToggle actionBarDrawerToggle;

private NavigationView navigationView;

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity_main);

drawerLayout = findViewById(R.id.my_drawer_layout);

actionBarDrawerToggle = new ActionBarDrawerToggle(this, drawerLayout, R.string.nav_open, R.string.nav_close);

drawerLayout.addDrawerListener(actionBar DrawerToggle);

actionBarDrawerToggle.syncState();

getSupportActionBar().setDisplayHomeAsU pEnabled(true);

cvProducts = findViewById (R.id.cvProducts);

cvOrders = findViewById(R.id.cvOrders);

cvProfile = findViewById(R.id.cvProfile);

cvProducts.setOnClickListener(new View.OnClickListener() {

public void onClick(View view) {

startActivity(new Intent(MainActivity.this, ProductsActivity.class));
}});

cvOrders.setOnClickListener(new View.OnClickListener() {

public void onClick(View view) {

startActivity(new Intent(MainActivity.this, OrdersActivity.class));}});

cvProfile.setOnClickListener(new View.OnClickListener() {

public void onClick(View view) {

startActivity(new Intent(MainActivity.this, ProfileActivity.class));}});

navigationView = findViewById(R.id.nav_view);

navigationView.setNavigationItemSelectedLi stener(new NavigationView.OnNavigationItemSelectedL istener() {

public boolean onNavigationItemSelected (@NonNull MenuItem item) {

int id = item.getItemId();

if (id == R.id.home) {

Intent intent = new Intent(MainActivity .this, MainActivity.class);

startActivity(intent);return true;}

else if (id == R.id.products){

startActivity(new Intent(MainActivity.this, ProductsActivity.class));}

else if (id == R.id.myaccount) {startActivity(new Intent(MainActivity.this, ProfileActivity.class));

} else if (id == R.id.orders) {
```

```
startActivity(new Intent(MainActivity.this,
OrdersActivity.class));

} else if (id == R.id.logout) {

String query = "DELETE FROM
Configuration";

DBClass.execNonQuery(query);

Intent intent = new Intent(MainActivity.this,
SplashScreenActivity.class);

startActivity(intent);return true;}

drawerLayout.closeDrawers();

return true;}});}

public void onBackPressed() {

AlertDialog.Builder builder = new
AlertDialog.Builder(this);

builder.setTitle("Exit");

builder.setMessage("Are you sure want to
exit?");

builder.setPositiveButton("Yes", new
DialogInterface.OnClickListener() {

public void onClick(DialogInterface dialog,
int id) {

finish();}});

builder.setNegativeButton("No", new
DialogInterface.OnClickListener() {

public void onClick(DialogInterface dialog,
int id) {dialog.dismiss();

}});builder.show();}

public boolean onCreateOptions Menu
(Menu menu) {

getMenuInflater().inflate(R.menu.navigation_
menu, menu);return true;}

@SuppressLint("NonConstantResourceId")p
ublic boolean
onOptionsItemSelected(@NonNull
MenuItem item) {
```

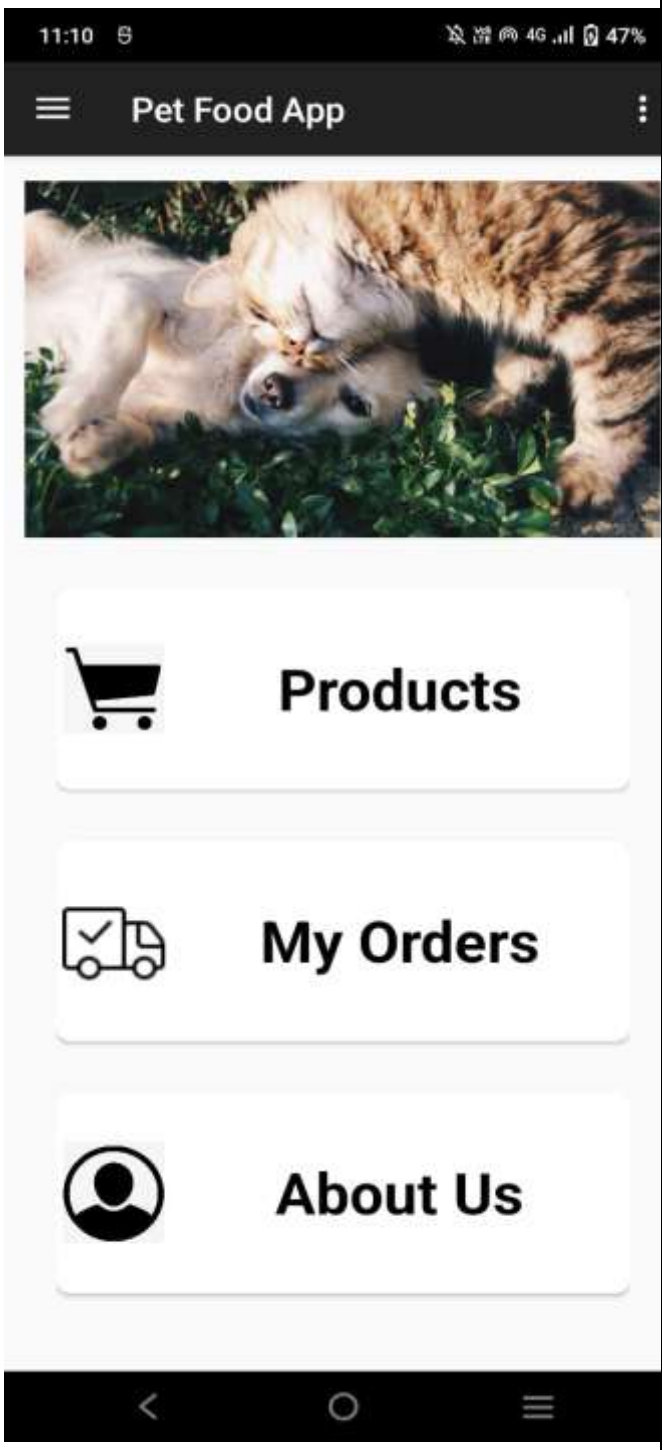
```
int itemId = item.getItemId();

if (itemId == R.id.home) {

Intent intent = new Intent(MainActivity. this,
MainActivity.class);

startActivity(intent);

return true;

} else if (itemId == R.id.products) {

Intent intent = new Intent(MainActivity. this,
ProductsActivity.class);

startActivity(intent);

return true;} else if (itemId ==
R.id.myaccount) {Intent intent = new
Intent(MainActivity.this,
ProfileActivity.class);startActivity(intent);ret
urn true;} else if (itemId == R.id.orders)
{Intent intent = new Intent(MainActivity.
this, OrdersActivity.class);

startActivity(intent);return true;

} else if (itemId == R.id.logout) {

String query = "DELETE FROM
Configuration";

DBClass.execNonQuery(query);

Intent intent = new Intent(MainActivity. this,
SplashScreenActivity.class);

startActivity(intent);

return true;}

if (actionBarDrawerToggle.
onOptionsItemSelected(item)) {

return true;}return
super.onOptionsItemSelected(item);}

}
```

2. OUTPUT

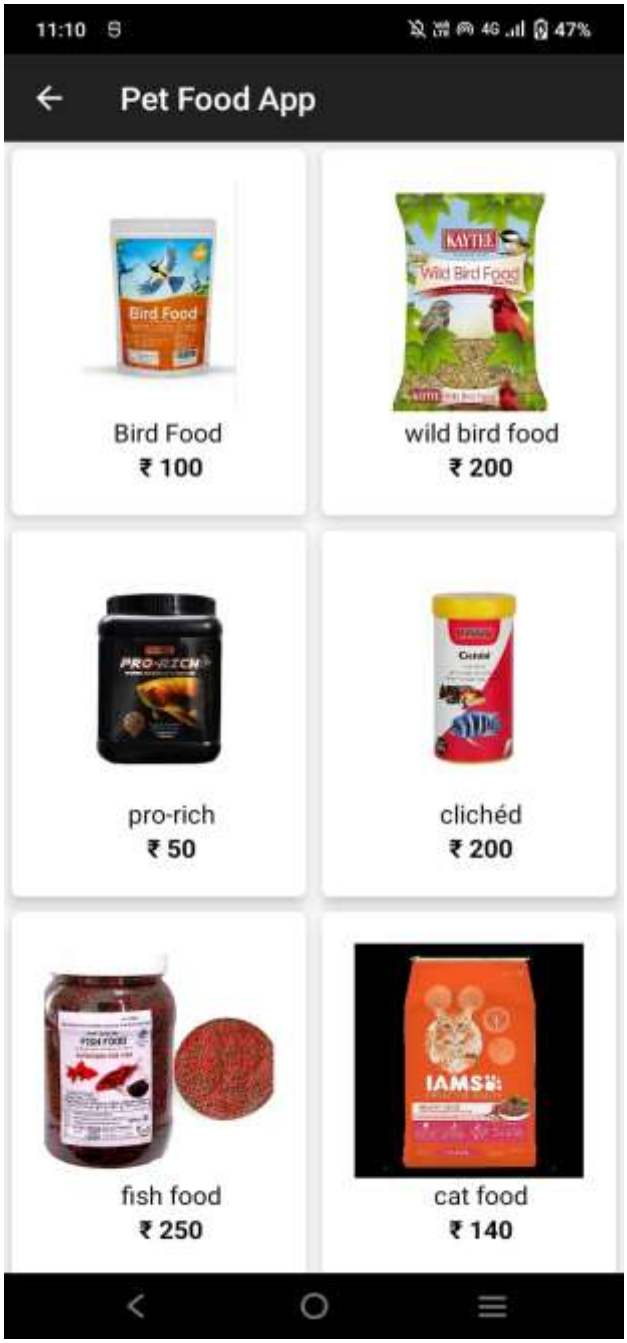
SPLASH SCREEN	REGISTRATION PAGE

LOGIN PAGE

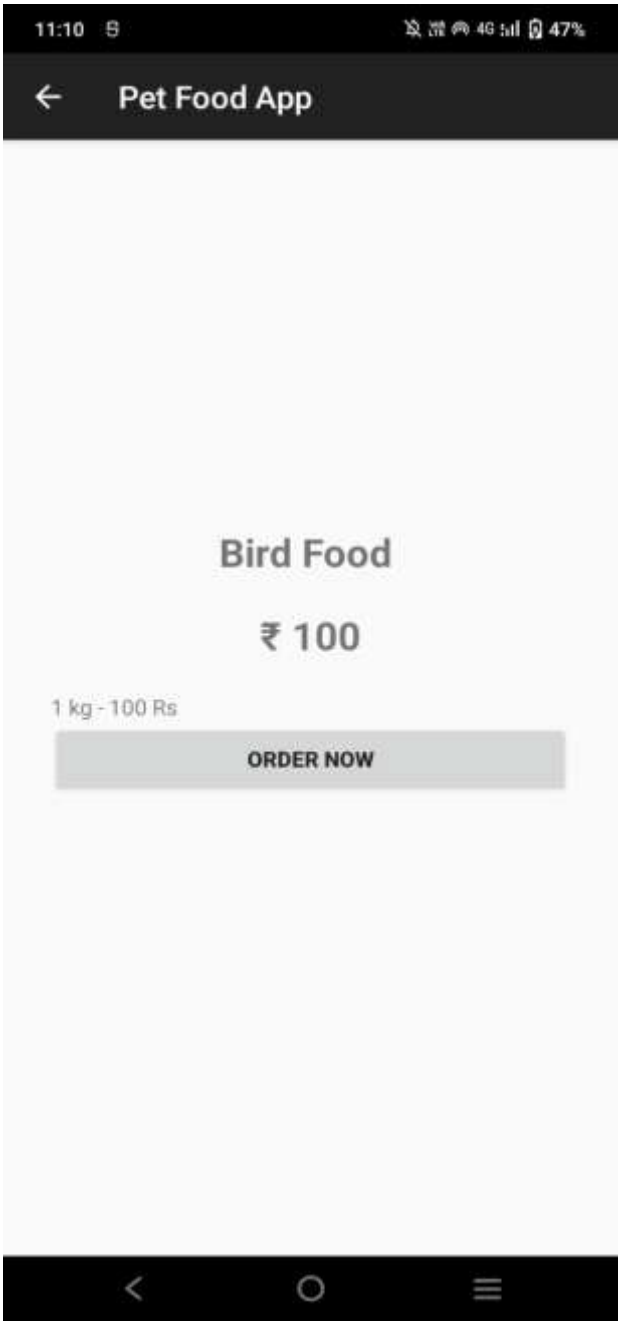
MAIN PAGE



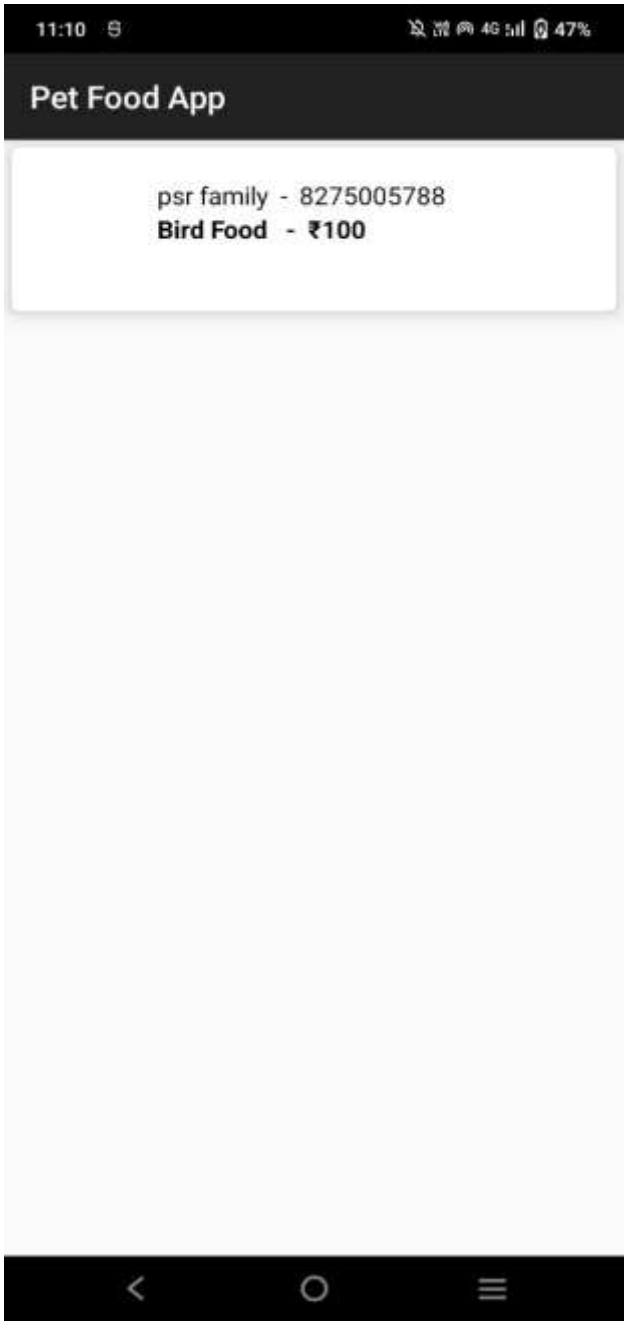
PRODUCT PAGE



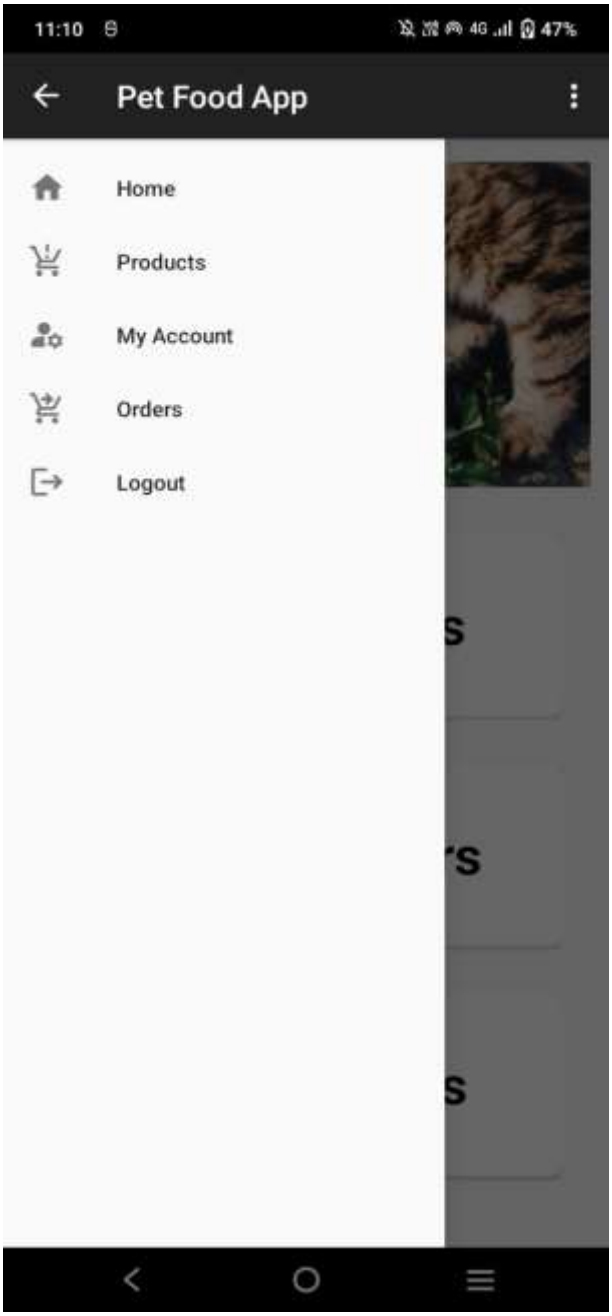
PRODUCT ORDER PAGE



ORDER LIST PAGE



MENU BAR



ABOUT US PAGE

➢ SKILL DEVELOPED/ LEARNING OUT OF THIS MICRO-PROJECT

1. Improving logical thinking and Programming Skills.
2. Importance of Database.
3. Efficient communication skills.
4. Working as a team member for developing program.
5. Developing leadership qualities.

➢ APLLICATION OF MICROPROJECT:

1. User Authentication:

   Allow users to sign up, sign in, and manage their accounts securely.
2. Responsive Design:

   Make the app accessible across various devices and screen sizes.
3. Product Listings:

   Display a variety of pet food products with details like name, description, price, and images
4. Shopping Cart:

   Allow users to add products to their cart & manage quantitie before proceeding to checkout

➢ CONCLUSION OF MICROPROJECT:

In conclusion, we made a Pet Food Order app for Android to make it easier for people to buy food for their pets. We wanted to make it simple to use and suggest food based on what pets like. The app lets you order easily, log in safely, and see lots of different types of pet food. We used XML and Java to build it and tools like SQLite or Firebase to store information. Our goal was to make sure the app works well and people enjoy using it.

➢ REFERENCES:

1. We referred book, Book Name is “Android Programmers For Beginners” by John Horton.
2. We referred following link:
   a https://developer.android.com/studio/intro
   b https://developer.android.com/training/data-storage/sqlite
   c https://developer.android.com/reference/android/content/Intent
   d https://developer.android.com/reference/android/widget/Adapter