

**FACULTY OF INFORMATION SCIENCE & TECHNOLOGY**

**TOP2121- OBJECT-ORIENTED PROGRAMMING**

**Session: Trimester 1, 2019/2020**

***Health, Nutrition and Diet Guide System***

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|  |  |
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Table of Contents

[Introduction 3](#_Toc27017482)

[UML Diagram 4](#_Toc27017483)

[Use case diagram 4](#_Toc27017484)

[Class Diagram 5](#_Toc27017485)

[State Diagram 6](#_Toc27017486)

[Appendix 7](#_Toc27017487)

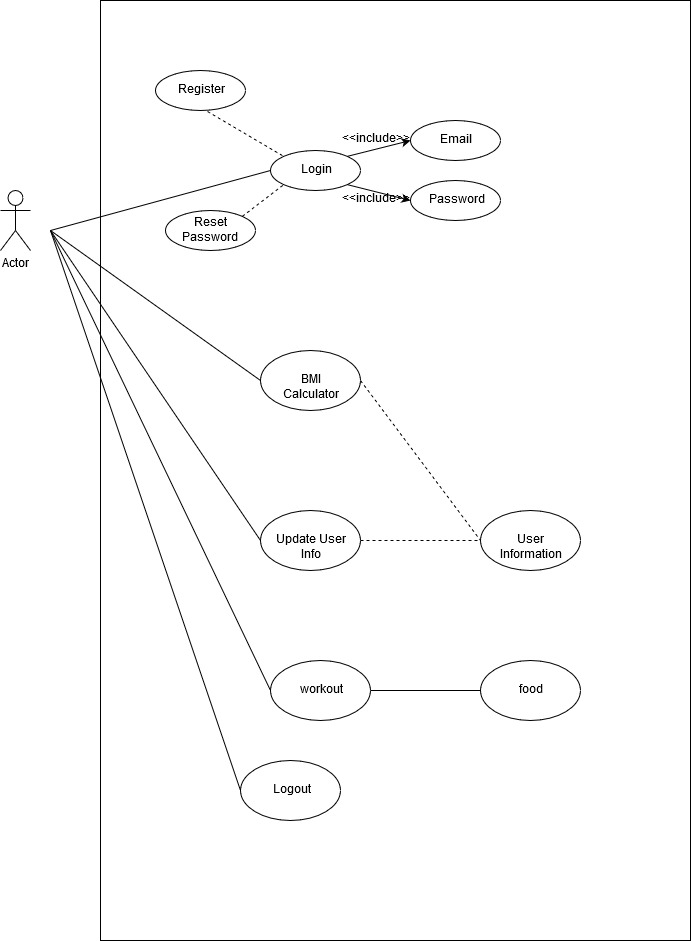
[Example Interface Output 35](#_Toc27017488)

# Introduction

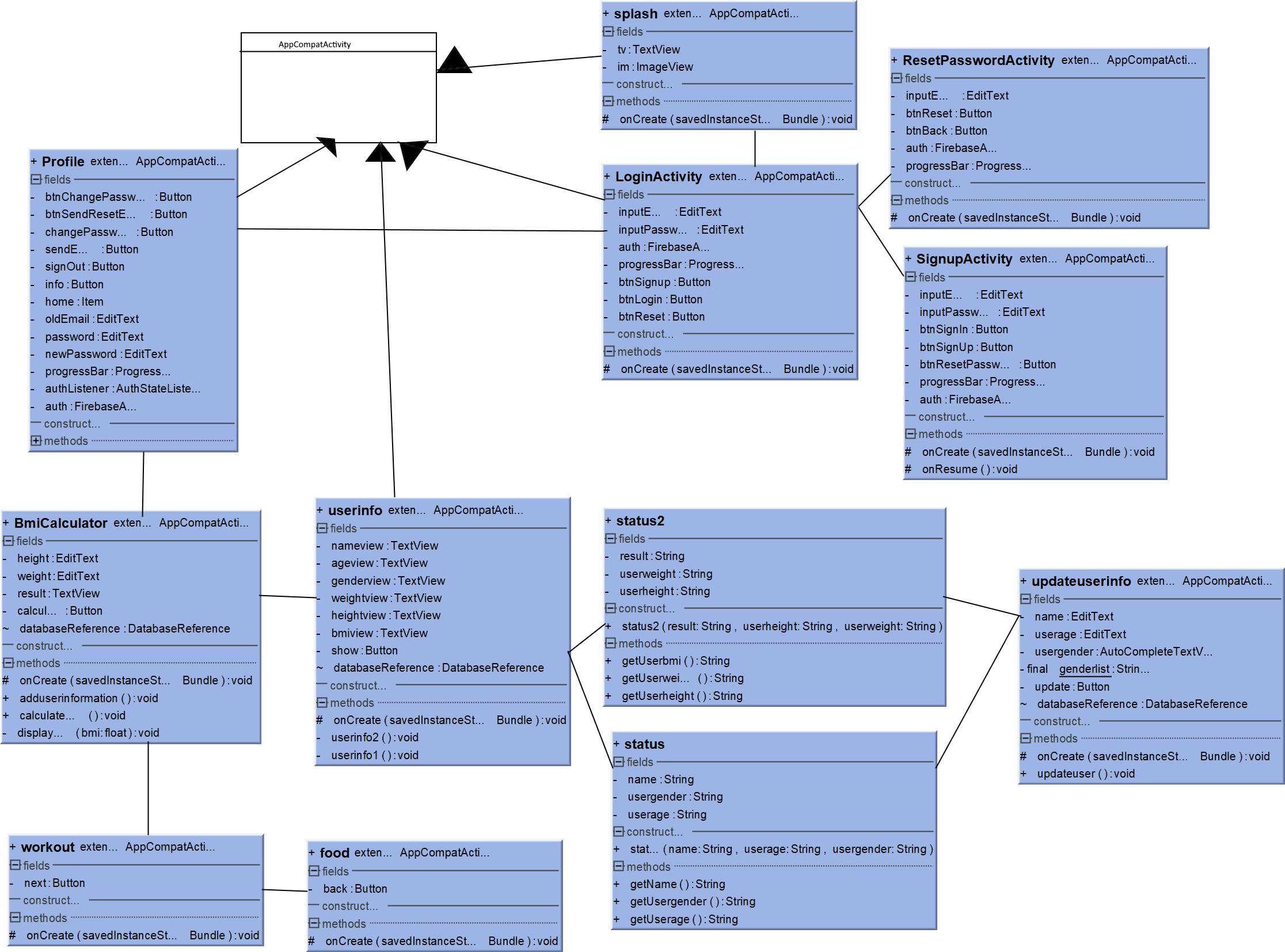
This is a health guide system enable user to calculate and check their BMI and the data will recorded into database system which is in Firebase. And user also can see the suggestion workout activity and food suggestion for those who plan for diet.

# UML Diagram

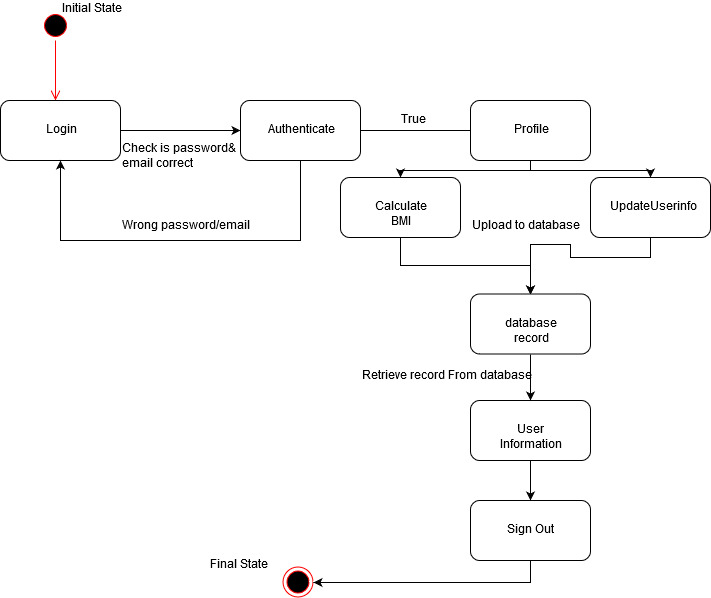
## Use case diagram



## Class Diagram

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## State Diagram



# Appendix

**Source Code**

**BMI CALCULATOR.java**

**package** com.example.healthguidesystem;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.view.MenuItem;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
**import** androidx.annotation.NonNull;  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** com.google.android.material.bottomnavigation.BottomNavigationView;  
**import** com.google.firebase.database.DatabaseReference;  
**import** com.google.firebase.database.FirebaseDatabase;  
  
**public class** BmiCalculator **extends** AppCompatActivity {  
  
 **private** EditText **height**, **weight**;  
 **private** TextView **result**;  
 **private** Button **calculate**;  
  
  
 DatabaseReference **databaseReference**;  
  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_bmi\_calculator***);  
  
 **final** BottomNavigationView bottomnavigationView = findViewById(R.id.***navbot***);  
 **height** = (EditText) findViewById(R.id.***height***);  
 **weight** = (EditText) findViewById(R.id.***weight***);  
 **result** = (TextView) findViewById(R.id.***result***);  
 **calculate** = (Button) findViewById(R.id.***calculate***);  
 **databaseReference** = FirebaseDatabase.*getInstance*().getReference(**"User Information"**);  
  
 **calculate**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 calculateBMI();  
 adduserinformation();  
  
  
  
  
  
  
 }  
 });  
  
 bottomnavigationView.setOnNavigationItemSelectedListener(**new** BottomNavigationView.OnNavigationItemSelectedListener() {  
 @Override  
 **public boolean** onNavigationItemSelected(@NonNull MenuItem menuItem) {  
 **switch**(menuItem.getItemId()){  
  
 **case** R.id.***nav\_home***:  
 Toast.*makeText*(BmiCalculator.**this**,**"BMI calculator"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(BmiCalculator.**this**,BmiCalculator.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_guide***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_account***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_userinfo***).setVisibility(View.***GONE***);  
 **break**;  
  
 **case** R.id.***nav\_account***:  
 Toast.*makeText*(BmiCalculator.**this**,**"Managed Account"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(BmiCalculator.**this**,Profile.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_guide***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_home***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_userinfo***).setVisibility(View.***GONE***);  
  
 **break**;  
  
 **case** R.id.***nav\_userinfo***:  
 Toast.*makeText*(BmiCalculator.**this**,**"Information Page"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(BmiCalculator.**this**,userinfo.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_guide***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_home***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_account***).setVisibility(View.***GONE***);  
 **break**;  
  
 **case** R.id.***nav\_guide***:  
 Toast.*makeText*(BmiCalculator.**this**,**"Guide Page"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(BmiCalculator.**this**,workout.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_userinfo***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_home***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_account***).setVisibility(View.***GONE***);  
 **break**;  
 }  
 **return true**;  
  
 }  
 });  
  
  
 }  
  
 **public void** adduserinformation(){  
 String height1 = **height**.getText().toString();  
 String weight1 = **weight**.getText().toString();  
 String result1 = **result**.getText().toString();  
  
  
 status2 status = **new** status2( result1,height1, weight1);  
 **databaseReference**.child(**"User BMI details"**).setValue(status);  
 }  
  
  
  
  
  
  
  
  
  
  
 **public void** calculateBMI() {  
 String heightStr = **height**.getText().toString();  
 String weightStr = **weight**.getText().toString();  
  
 **if** (heightStr != **null** && !**""**.equals(heightStr) && weightStr != **null** && !**""**.equals(weightStr)) {  
 **float** heightValue = Float.*parseFloat*(heightStr)/100;  
 **float** weightValue = Float.*parseFloat*(weightStr);  
  
 **float** bmi = weightValue / (heightValue \* heightValue);  
  
 displayBMI(bmi);  
 }  
 }  
  
  
 **private void** displayBMI(**float** bmi) {  
  
  
 String bmilabel = **""**;  
 **if** (Float.*compare*(bmi, 15f) <= 0) {  
 bmilabel = getString(R.string.***very\_severely\_under\_weight***);  
 } **else if** (Float.*compare*(bmi, 15f) > 0 && Float.*compare*(bmi, 16f) <= 0) {  
 bmilabel = getString(R.string.***severely\_underweight***);  
 } **else if** (Float.*compare*(bmi, 16f) > 0 && Float.*compare*(bmi, 18.5f) <= 0) {  
 bmilabel = getString(R.string.***underweight***);  
 } **else if** (Float.*compare*(bmi, 18f) > 0 && Float.*compare*(bmi, 25f) <= 0) {  
 bmilabel = getString(R.string.***normal***);  
 } **else if** (Float.*compare*(bmi, 25f) > 0 && Float.*compare*(bmi, 30f) <= 0) {  
 bmilabel = getString(R.string.***overweight***);  
 } **else if** (Float.*compare*(bmi, 30f) > 0 && Float.*compare*(bmi, 35f) <= 0) {  
 bmilabel = getString(R.string.***obese\_class\_i***);  
 } **else if** (Float.*compare*(bmi, 35f) > 0 && Float.*compare*(bmi, 40f) <= 0) {  
 bmilabel = getString(R.string.***obese\_class\_ii***);  
 } **else** {  
 bmilabel = getString(R.string.***obese\_class\_iii***);  
 }  
  
 bmilabel = bmi + **"\n\n"** + bmilabel;  
 **result**.setText(bmilabel);  
  
  
 }  
  
  
  
  
  
  
}

**food.java**

**package** com.example.healthguidesystem;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.view.MenuItem;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.Toast;  
  
**import** androidx.annotation.NonNull;  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** com.google.android.material.bottomnavigation.BottomNavigationView;  
  
**public class** food **extends** AppCompatActivity {  
**private** Button **back**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_food***);  
  
  
 **back** = (Button) findViewById(R.id.***back***);  
  
 **back**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 startActivity(**new** Intent(food.**this**,workout.**class**));  
 finish();;  
 }  
 });  
 **final** BottomNavigationView bottomnavigationView = findViewById(R.id.***navbot***);  
 bottomnavigationView.setOnNavigationItemSelectedListener(**new** BottomNavigationView.OnNavigationItemSelectedListener() {  
 @Override  
 **public boolean** onNavigationItemSelected(@NonNull MenuItem menuItem) {  
 **switch**(menuItem.getItemId()){  
  
 **case** R.id.***nav\_home***:  
 Toast.*makeText*(food.**this**,**"BMI calculator"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(food.**this**,BmiCalculator.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_guide***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_account***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_userinfo***).setVisibility(View.***GONE***);  
 **break**;  
  
 **case** R.id.***nav\_account***:  
 Toast.*makeText*(food.**this**,**"Managed Account"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(food.**this**,Profile.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_guide***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_home***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_userinfo***).setVisibility(View.***GONE***);  
  
 **break**;  
  
 **case** R.id.***nav\_userinfo***:  
 Toast.*makeText*(food.**this**,**"Information Page"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(food.**this**,userinfo.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_guide***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_home***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_account***).setVisibility(View.***GONE***);  
 **break**;  
  
 **case** R.id.***nav\_guide***:  
 Toast.*makeText*(food.**this**,**"Guide Page"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(food.**this**,workout.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_userinfo***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_home***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_account***).setVisibility(View.***GONE***);  
 **break**;  
 }  
 **return true**;  
  
 }  
 });  
  
 }  
}

**LoginActivity.java**

**package** com.example.healthguidesystem;  
  
**import** android.content.Intent;  
**import** android.os.Build;  
**import** android.os.Bundle;  
**import** android.text.TextUtils;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.ProgressBar;  
**import** android.widget.Toast;  
  
**import** androidx.annotation.NonNull;  
**import** androidx.annotation.RequiresApi;  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** com.google.android.gms.tasks.OnCompleteListener;  
**import** com.google.android.gms.tasks.Task;  
**import** com.google.firebase.auth.AuthResult;  
**import** com.google.firebase.auth.FirebaseAuth;  
  
**public class** LoginActivity **extends** AppCompatActivity {  
  
 **private** EditText **inputEmail**, **inputPassword**;  
 **private** FirebaseAuth **auth**;  
 **private** ProgressBar **progressBar**;  
 **private** Button **btnSignup**, **btnLogin**, **btnReset**;  
  
 @RequiresApi(api = Build.VERSION\_CODES.***LOLLIPOP***)  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
  
 *//Get Firebase auth instance* **auth** = FirebaseAuth.*getInstance*();  
  
 **if** (**auth**.getCurrentUser() != **null**) {  
 startActivity(**new** Intent(LoginActivity.**this**, Profile.**class**));  
 finish();  
 }  
  
  
 *// set the view now* setContentView(R.layout.***activity\_login***);  
  
  
  
 **inputEmail** = (EditText) findViewById(R.id.***email***);  
 **inputPassword** = (EditText) findViewById(R.id.***password***);  
 **progressBar** = (ProgressBar) findViewById(R.id.***progressBar***);  
 **btnSignup** = (Button) findViewById(R.id.***btn\_signup***);  
 **btnLogin** = (Button) findViewById(R.id.***btn\_login***);  
 **btnReset** = (Button) findViewById(R.id.***btn\_reset\_password***);  
  
 *//Get Firebase auth instance* **auth** = FirebaseAuth.*getInstance*();  
  
 **btnSignup**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 startActivity(**new** Intent(LoginActivity.**this**, SignupActivity.**class**));  
 }  
 });  
  
 **btnReset**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 startActivity(**new** Intent(LoginActivity.**this**, ResetPasswordActivity.**class**));  
 }  
 });  
  
 **btnLogin**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 String email = **inputEmail**.getText().toString();  
 **final** String password = **inputPassword**.getText().toString();  
  
 **if** (TextUtils.*isEmpty*(email)) {  
 Toast.*makeText*(getApplicationContext(), **"Enter email address!"**, Toast.***LENGTH\_SHORT***).show();  
 **return**;  
 }  
  
 **if** (TextUtils.*isEmpty*(password)) {  
 Toast.*makeText*(getApplicationContext(), **"Enter password!"**, Toast.***LENGTH\_SHORT***).show();  
 **return**;  
 }  
  
 **progressBar**.setVisibility(View.***VISIBLE***);  
  
 *//authenticate user* **auth**.signInWithEmailAndPassword(email, password)  
 .addOnCompleteListener(LoginActivity.**this**, **new** OnCompleteListener<AuthResult>() {  
 @Override  
 **public void** onComplete(@NonNull Task<AuthResult> task) {  
 *// If sign in fails, display a message to the user. If sign in succeeds  
 // the auth state listener will be notified and logic to handle the  
 // signed in user can be handled in the listener.* **progressBar**.setVisibility(View.***GONE***);  
 **if** (!task.isSuccessful()) {  
 *// there was an error* **if** (password.length() < 6) {  
 **inputPassword**.setError(getString(R.string.***minimum\_password***));  
 } **else** {  
 Toast.*makeText*(LoginActivity.**this**, getString(R.string.***auth\_failed***), Toast.***LENGTH\_LONG***).show();  
 }  
 } **else** {  
 Intent intent = **new** Intent(LoginActivity.**this**, Profile.**class**);  
 startActivity(intent);  
 finish();  
 }  
 }  
 });  
 }  
 });  
 }  
  
  
}

**Profile.java**

**package** com.example.healthguidesystem;  
  
**import** android.content.ClipData;  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.view.MenuItem;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.ProgressBar;  
**import** android.widget.Toast;  
  
**import** androidx.annotation.NonNull;  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** com.google.android.gms.tasks.OnCompleteListener;  
**import** com.google.android.gms.tasks.Task;  
**import** com.google.android.material.bottomnavigation.BottomNavigationView;  
**import** com.google.firebase.auth.FirebaseAuth;  
**import** com.google.firebase.auth.FirebaseUser;  
  
**public class** Profile **extends** AppCompatActivity {  
  
 **private** Button **btnChangePassword**, **btnSendResetEmail**,  
 **changePassword**, **sendEmail**, **signOut**, **info** ;  
  
  
 **private** ClipData.Item **home**;  
 **private** EditText **oldEmail**, **password**, **newPassword**;  
 **private** ProgressBar **progressBar**;  
 **private** FirebaseAuth.AuthStateListener **authListener**;  
 **private** FirebaseAuth **auth**;  
  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_profile***);  
  
  
  
 *//get firebase auth instance* **auth** = FirebaseAuth.*getInstance*();  
  
 *//get current user* **final** FirebaseUser user = FirebaseAuth.*getInstance*().getCurrentUser();  
  
 **authListener** = **new** FirebaseAuth.AuthStateListener() {  
 @Override  
 **public void** onAuthStateChanged(@NonNull FirebaseAuth firebaseAuth) {  
 FirebaseUser user = firebaseAuth.getCurrentUser();  
 **if** (user == **null**) {  
 *// user auth state is changed - user is null  
 // launch login activity* startActivity(**new** Intent(Profile.**this**, LoginActivity.**class**));  
 finish();  
 }  
 }  
 };  
  
  
 **final** BottomNavigationView bottomnavigationView = findViewById(R.id.***navbot***);  
  
 **info** = (Button) findViewById(R.id.***info***);  
 **btnChangePassword** = (Button) findViewById(R.id.***change\_password\_button***);  
 **btnSendResetEmail** = (Button) findViewById(R.id.***sending\_pass\_reset\_button***);  
 **changePassword** = (Button) findViewById(R.id.***changePass***);  
 **sendEmail** = (Button) findViewById(R.id.***send***);  
  
 **signOut** = (Button) findViewById(R.id.***sign\_out***);  
  
 **oldEmail** = (EditText) findViewById(R.id.***old\_email***);  
 **password** = (EditText) findViewById(R.id.***password***);  
 **newPassword** = (EditText) findViewById(R.id.***newPassword***);  
  
 **oldEmail**.setVisibility(View.***GONE***);  
 **password**.setVisibility(View.***GONE***);  
 **newPassword**.setVisibility(View.***GONE***);  
 **changePassword**.setVisibility(View.***GONE***);  
 **sendEmail**.setVisibility(View.***GONE***);  
  
 **progressBar** = (ProgressBar) findViewById(R.id.***progressBar***);  
  
 **if** (**progressBar** != **null**) {  
 **progressBar**.setVisibility(View.***GONE***);  
 }  
  
  
  
  
  
 **info**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 startActivity(**new** Intent(Profile.**this**, updateuserinfo.**class**));  
 }  
 });  
  
  
  
  
  
 **btnChangePassword**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 **oldEmail**.setVisibility(View.***GONE***);  
 **password**.setVisibility(View.***GONE***);  
 **newPassword**.setVisibility(View.***VISIBLE***);  
 **changePassword**.setVisibility(View.***VISIBLE***);  
 **sendEmail**.setVisibility(View.***GONE***);  
  
 }  
 });  
  
 **changePassword**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 **progressBar**.setVisibility(View.***VISIBLE***);  
 **if** (user != **null** && !**newPassword**.getText().toString().trim().equals(**""**)) {  
 **if** (**newPassword**.getText().toString().trim().length() < 6) {  
 **newPassword**.setError(**"Password too short, enter minimum 6 characters"**);  
 **progressBar**.setVisibility(View.***GONE***);  
 } **else** {  
 user.updatePassword(**newPassword**.getText().toString().trim())  
 .addOnCompleteListener(**new** OnCompleteListener<Void>() {  
 @Override  
 **public void** onComplete(@NonNull Task<Void> task) {  
 **if** (task.isSuccessful()) {  
 Toast.*makeText*(Profile.**this**, **"Password is updated, sign in with new password!"**, Toast.***LENGTH\_SHORT***).show();  
 signOut();  
 **progressBar**.setVisibility(View.***GONE***);  
 } **else** {  
 Toast.*makeText*(Profile.**this**, **"Failed to update password!"**, Toast.***LENGTH\_SHORT***).show();  
 **progressBar**.setVisibility(View.***GONE***);  
 }  
 }  
 });  
 }  
 } **else if** (**newPassword**.getText().toString().trim().equals(**""**)) {  
 **newPassword**.setError(**"Enter password"**);  
 **progressBar**.setVisibility(View.***GONE***);  
 }  
 }  
 });  
  
 **btnSendResetEmail**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 **oldEmail**.setVisibility(View.***VISIBLE***);  
 **password**.setVisibility(View.***GONE***);  
 **newPassword**.setVisibility(View.***GONE***);  
 **changePassword**.setVisibility(View.***GONE***);  
 **sendEmail**.setVisibility(View.***VISIBLE***);  
  
 }  
 });  
  
 **sendEmail**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 **progressBar**.setVisibility(View.***VISIBLE***);  
 **if** (!**oldEmail**.getText().toString().trim().equals(**""**)) {  
 **auth**.sendPasswordResetEmail(**oldEmail**.getText().toString().trim())  
 .addOnCompleteListener(**new** OnCompleteListener<Void>() {  
 @Override  
 **public void** onComplete(@NonNull Task<Void> task) {  
 **if** (task.isSuccessful()) {  
 Toast.*makeText*(Profile.**this**, **"Reset password email is sent!"**, Toast.***LENGTH\_SHORT***).show();  
 **progressBar**.setVisibility(View.***GONE***);  
 } **else** {  
 Toast.*makeText*(Profile.**this**, **"Failed to send reset email!"**, Toast.***LENGTH\_SHORT***).show();  
 **progressBar**.setVisibility(View.***GONE***);  
 }  
 }  
 });  
 } **else** {  
 **oldEmail**.setError(**"Enter email"**);  
 **progressBar**.setVisibility(View.***GONE***);  
 }  
 }  
 });  
  
  
  
 **signOut**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 signOut();  
 }  
 });  
  
  
 bottomnavigationView.setOnNavigationItemSelectedListener(**new** BottomNavigationView.OnNavigationItemSelectedListener() {  
 @Override  
 **public boolean** onNavigationItemSelected(@NonNull MenuItem menuItem) {  
 **switch**(menuItem.getItemId()){  
  
 **case** R.id.***nav\_home***:  
 Toast.*makeText*(Profile.**this**,**"BMI calculator"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(Profile.**this**,BmiCalculator.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_guide***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_account***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_userinfo***).setVisibility(View.***GONE***);  
 **break**;  
  
 **case** R.id.***nav\_account***:  
 Toast.*makeText*(Profile.**this**,**"Managed Account"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(Profile.**this**,Profile.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_guide***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_home***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_userinfo***).setVisibility(View.***GONE***);  
  
 **break**;  
  
 **case** R.id.***nav\_userinfo***:  
 Toast.*makeText*(Profile.**this**,**"Information Page"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(Profile.**this**,userinfo.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_guide***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_home***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_account***).setVisibility(View.***GONE***);  
 **break**;  
  
 **case** R.id.***nav\_guide***:  
 Toast.*makeText*(Profile.**this**,**"Guide Page"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(Profile.**this**,workout.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_userinfo***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_home***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_account***).setVisibility(View.***GONE***);  
 **break**;  
 }  
 **return true**;  
  
 }  
 });  
  
  
  
  
 }  
  
  
 *//sign out method* **public void** signOut() {  
 **auth**.signOut();  
 }  
  
 @Override  
 **protected void** onResume() {  
 **super**.onResume();  
 **progressBar**.setVisibility(View.***GONE***);  
 }  
  
 @Override  
 **public void** onStart() {  
 **super**.onStart();  
 **auth**.addAuthStateListener(**authListener**);  
 }  
  
 @Override  
 **public void** onStop() {  
 **super**.onStop();  
 **if** (**authListener** != **null**) {  
 **auth**.removeAuthStateListener(**authListener**);  
 }  
 }  
}

**ResetPasswordActivity.java**

**package** com.example.healthguidesystem;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.text.TextUtils;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.ProgressBar;  
**import** android.widget.Toast;  
  
**import** androidx.annotation.NonNull;  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** com.google.android.gms.tasks.OnCompleteListener;  
**import** com.google.android.gms.tasks.Task;  
**import** com.google.firebase.auth.FirebaseAuth;  
  
**public class** ResetPasswordActivity **extends** AppCompatActivity {  
  
 **private** EditText **inputEmail**;  
 **private** Button **btnReset**, **btnBack**;  
 **private** FirebaseAuth **auth**;  
 **private** ProgressBar **progressBar**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_reset\_password***);  
  
 **inputEmail** = (EditText) findViewById(R.id.***email***);  
 **btnReset** = (Button) findViewById(R.id.***btn\_reset\_password***);  
 **btnBack** = (Button) findViewById(R.id.***btn\_back***);  
 **progressBar** = (ProgressBar) findViewById(R.id.***progressBar***);  
  
 **auth** = FirebaseAuth.*getInstance*();  
  
 **btnBack**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 startActivity(**new** Intent(ResetPasswordActivity.**this**, LoginActivity.**class**));  
 }  
 });  
  
 **btnReset**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
  
 String email = **inputEmail**.getText().toString().trim();  
  
 **if** (TextUtils.*isEmpty*(email)) {  
 Toast.*makeText*(getApplication(), **"Enter your registered email id"**, Toast.***LENGTH\_SHORT***).show();  
 **return**;  
 }  
  
 **progressBar**.setVisibility(View.***VISIBLE***);  
 **auth**.sendPasswordResetEmail(email)  
 .addOnCompleteListener(**new** OnCompleteListener<Void>() {  
 @Override  
 **public void** onComplete(@NonNull Task<Void> task) {  
 **if** (task.isSuccessful()) {  
 Toast.*makeText*(ResetPasswordActivity.**this**, **"We have sent you instructions to reset your password!"**, Toast.***LENGTH\_SHORT***).show();  
 } **else** {  
 Toast.*makeText*(ResetPasswordActivity.**this**, **"Failed to send reset email!"**, Toast.***LENGTH\_SHORT***).show();  
 }  
  
 **progressBar**.setVisibility(View.***GONE***);  
 }  
 });  
 }  
 });  
 }  
  
}

**SignUpActivity.java**

**package** com.example.healthguidesystem;  
  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.text.TextUtils;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.ProgressBar;  
**import** android.widget.Toast;  
  
**import** androidx.annotation.NonNull;  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** com.google.android.gms.tasks.OnCompleteListener;  
**import** com.google.android.gms.tasks.Task;  
**import** com.google.firebase.auth.AuthResult;  
**import** com.google.firebase.auth.FirebaseAuth;  
  
**public class** SignupActivity **extends** AppCompatActivity {  
  
 **private** EditText **inputEmail**, **inputPassword**;  
 **private** Button **btnSignIn**, **btnSignUp**, **btnResetPassword**;  
 **private** ProgressBar **progressBar**;  
 **private** FirebaseAuth **auth**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_signup***);  
  
 *//Get Firebase auth instance* **auth** = FirebaseAuth.*getInstance*();  
  
 **btnSignIn** = (Button) findViewById(R.id.***sign\_in\_button***);  
 **btnSignUp** = (Button) findViewById(R.id.***sign\_up\_button***);  
 **inputEmail** = (EditText) findViewById(R.id.***email***);  
 **inputPassword** = (EditText) findViewById(R.id.***password***);  
 **progressBar** = (ProgressBar) findViewById(R.id.***progressBar***);  
  
  
  
  
 **btnSignIn**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 finish();  
 }  
 });  
  
 **btnSignUp**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
  
 String email = **inputEmail**.getText().toString().trim();  
 String password = **inputPassword**.getText().toString().trim();  
  
 **if** (TextUtils.*isEmpty*(email)) {  
 Toast.*makeText*(getApplicationContext(), **"Enter email address!"**, Toast.***LENGTH\_SHORT***).show();  
 **return**;  
 }  
  
 **if** (TextUtils.*isEmpty*(password)) {  
 Toast.*makeText*(getApplicationContext(), **"Enter password!"**, Toast.***LENGTH\_SHORT***).show();  
 **return**;  
 }  
  
 **if** (password.length() < 6) {  
 Toast.*makeText*(getApplicationContext(), **"Password too short, enter minimum 6 characters!"**, Toast.***LENGTH\_SHORT***).show();  
 **return**;  
 }  
  
 **progressBar**.setVisibility(View.***VISIBLE***);  
 *//create user* **auth**.createUserWithEmailAndPassword(email, password)  
 .addOnCompleteListener(SignupActivity.**this**, **new** OnCompleteListener<AuthResult>() {  
 @Override  
 **public void** onComplete(@NonNull Task<AuthResult> task) {  
 Toast.*makeText*(SignupActivity.**this**, **"createUserWithEmail:onComplete:"** + task.isSuccessful(), Toast.***LENGTH\_SHORT***).show();  
 **progressBar**.setVisibility(View.***GONE***);  
 *// If sign in fails, display a message to the user. If sign in succeeds  
 // the auth state listener will be notified and logic to handle the  
 // signed in user can be handled in the listener.* **if** (!task.isSuccessful()) {  
 Toast.*makeText*(SignupActivity.**this**, **"Authentication failed."** + task.getException(),  
 Toast.***LENGTH\_SHORT***).show();  
 } **else** {  
 startActivity(**new** Intent(SignupActivity.**this**, Profile.**class**));  
 finish();  
 }  
 }  
 });  
  
 }  
 });  
 }  
  
 @Override  
 **protected void** onResume() {  
 **super**.onResume();  
 **progressBar**.setVisibility(View.***GONE***);  
 }  
}

**splash.java**

**package** com.example.healthguidesystem;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.view.animation.Animation;  
**import** android.view.animation.AnimationUtils;  
**import** android.widget.ImageView;  
**import** android.widget.TextView;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**public class** splash **extends** AppCompatActivity {  
**private** TextView **tv**;  
**private** ImageView **im**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_splash***);  
 **im** = (ImageView) findViewById(R.id.***image***);  
 **tv** = (TextView) findViewById(R.id.***text***);  
 Animation anime = AnimationUtils.*loadAnimation*(**this**,R.anim.***mytransition***);  
  
 **tv**.startAnimation(anime);  
 **im**.startAnimation(anime);  
  
 Thread timer = **new** Thread(){  
 **public void** run(){  
 **try**{  
 *sleep*(2500);  
  
 }**catch** ( InterruptedException e){  
 e.printStackTrace();  
 }  
 **finally** {  
  
 startActivity(**new** Intent(splash.**this**, LoginActivity.**class**));  
 finish();  
  
 }  
 }  
 };  
 timer.start();  
  
 }  
}

**status.java**

**package** com.example.healthguidesystem;  
  
**public class** status {  
  
 **private** String **name**;  
 **private** String **usergender**;  
 **private** String **userage**;  
  
  
  
 **public** status(String name, String userage, String usergender){  
  
 **this**.**name** = name;  
 **this**.**usergender** = usergender;  
 **this**.**userage** = userage;  
  
  
 }  
  
  
  
  
 **public** String getName(){  
 **return name**;  
 }  
  
 **public** String getUsergender() {  
 **return usergender**;  
 }  
  
 **public** String getUserage() {  
 **return userage**;  
 }  
}

**status2.java**

**package** com.example.healthguidesystem;  
  
**public class** status2 {  
  
 **private** String **result**;  
 **private** String **userweight**;  
 **private** String **userheight**;  
  
  
  
  
  
  
  
  
 **public** status2(String result, String userheight, String userweight){  
 **this**.**result** = result;  
 **this**.**userweight** = userweight;  
 **this**.**userheight** = userheight;  
  
 }  
  
  
 **public** String getUserbmi() {  
 **return result**;  
 }  
 **public** String getUserweight() {  
 **return userweight**;  
 }  
 **public** String getUserheight() {  
 **return userheight**;  
 }  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
}

**updateuserinfo.java**

**package** com.example.healthguidesystem;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.view.MenuItem;  
**import** android.view.View;  
**import** android.widget.ArrayAdapter;  
**import** android.widget.AutoCompleteTextView;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.Toast;  
  
**import** androidx.annotation.NonNull;  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** com.google.android.material.bottomnavigation.BottomNavigationView;  
**import** com.google.firebase.database.DatabaseReference;  
**import** com.google.firebase.database.FirebaseDatabase;  
  
**public class** updateuserinfo **extends** AppCompatActivity {  
 **private** EditText **name**, **userage**;  
 **private** AutoCompleteTextView **usergender**;  
 **private static final** String[] ***genderlist*** = **new** String[]{**"Men"**,**"Women"**};  
 **private** Button **update**;  
 DatabaseReference **databaseReference**;  
  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_updateuserinfo***);  
  
  
 **final** BottomNavigationView bottomnavigationView = findViewById(R.id.***navbot***);  
 **name** = (EditText) findViewById(R.id.***name***);  
  
 **usergender** = (AutoCompleteTextView) findViewById(R.id.***gender***);  
 **userage** = (EditText) findViewById(R.id.***age***);  
 **update** = (Button) findViewById(R.id.***update***);  
 **databaseReference** = FirebaseDatabase.*getInstance*().getReference(**"User Information"**);  
  
 **update**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 updateuser();  
 }  
  
 });  
  
 AutoCompleteTextView usergender = findViewById(R.id.***gender***);  
 ArrayAdapter<String> adapter = **new** ArrayAdapter<String>(updateuserinfo.**this**, android.R.layout.***simple\_list\_item\_1***,***genderlist***);  
 usergender.setAdapter(adapter);  
  
 bottomnavigationView.setOnNavigationItemSelectedListener(**new** BottomNavigationView.OnNavigationItemSelectedListener() {  
 @Override  
 **public boolean** onNavigationItemSelected(@NonNull MenuItem menuItem) {  
 **switch**(menuItem.getItemId()){  
  
 **case** R.id.***nav\_home***:  
 Toast.*makeText*(updateuserinfo.**this**,**"BMI calculator"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(updateuserinfo.**this**,BmiCalculator.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_guide***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_account***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_userinfo***).setVisibility(View.***GONE***);  
 **break**;  
  
 **case** R.id.***nav\_account***:  
 Toast.*makeText*(updateuserinfo.**this**,**"Managed Account"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(updateuserinfo.**this**,Profile.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_guide***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_home***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_userinfo***).setVisibility(View.***GONE***);  
  
 **break**;  
  
 **case** R.id.***nav\_userinfo***:  
 Toast.*makeText*(updateuserinfo.**this**,**"Information Page"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(updateuserinfo.**this**,userinfo.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_guide***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_home***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_account***).setVisibility(View.***GONE***);  
 **break**;  
  
 **case** R.id.***nav\_guide***:  
 Toast.*makeText*(updateuserinfo.**this**,**"Guide Page"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(updateuserinfo.**this**,workout.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_userinfo***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_home***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_account***).setVisibility(View.***GONE***);  
 **break**;  
 }  
 **return true**;  
  
 }  
 });  
  
 }  
  
 **public void** updateuser(){  
 String username = **name**.getText().toString();  
 String userage1 = **userage**.getText().toString();  
 String usergender1 = **usergender**.getText().toString();  
  
  
 status status = **new** status(username, userage1, usergender1);  
 **databaseReference**.child(**"User Details"**).setValue(status);  
 }  
  
  
  
  
}

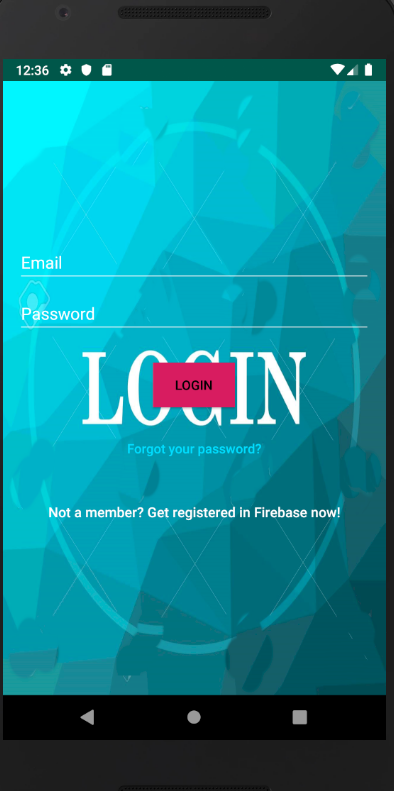
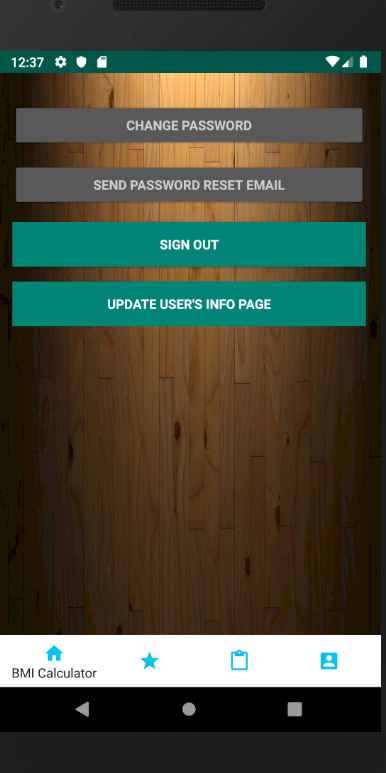
**userinfo.java**

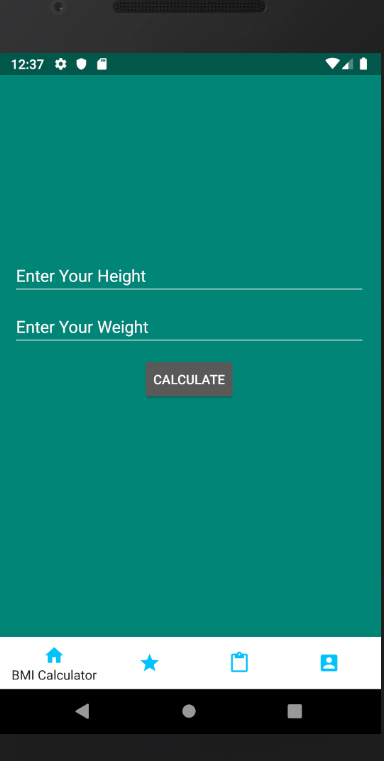
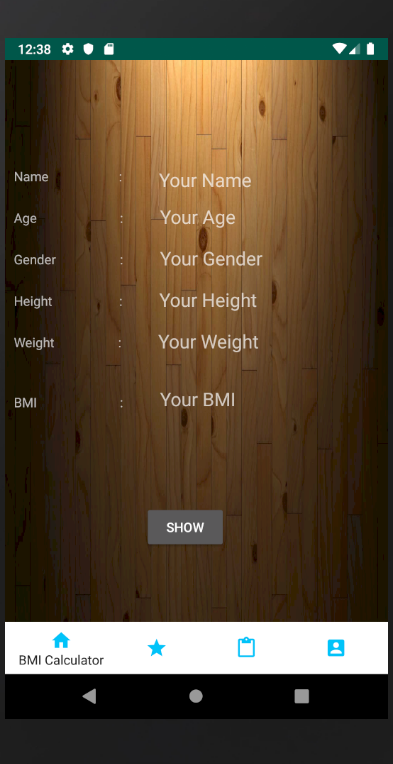
**package** com.example.healthguidesystem;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.view.MenuItem;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
**import** androidx.annotation.NonNull;  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** com.google.android.material.bottomnavigation.BottomNavigationView;  
**import** com.google.firebase.database.DataSnapshot;  
**import** com.google.firebase.database.DatabaseError;  
**import** com.google.firebase.database.DatabaseReference;  
**import** com.google.firebase.database.FirebaseDatabase;  
**import** com.google.firebase.database.ValueEventListener;  
  
**public class** userinfo **extends** AppCompatActivity {  
 **private** TextView **nameview**, **ageview**, **genderview**,**weightview**, **heightview**, **bmiview**;  
 **private** Button **show**;  
 DatabaseReference **databaseReference**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_userinfo***);  
  
  
 **final** BottomNavigationView bottomnavigationView = findViewById(R.id.***navbot***);  
  
 **bmiview** = (TextView) findViewById(R.id.***resultbmi***);  
 **nameview** = (TextView) findViewById(R.id.***name***);  
 **ageview** = (TextView) findViewById(R.id.***age***);  
 **genderview** = (TextView) findViewById(R.id.***gender***);  
 **weightview** = (TextView) findViewById(R.id.***weight***);  
 **heightview** = (TextView) findViewById(R.id.***height***);  
 **show** = (Button) findViewById(R.id.***show***);  
  
 **show**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 userinfo1();  
 userinfo2();  
  
 }  
 });  
  
 bottomnavigationView.setOnNavigationItemSelectedListener(**new** BottomNavigationView.OnNavigationItemSelectedListener() {  
 @Override  
 **public boolean** onNavigationItemSelected(@NonNull MenuItem menuItem) {  
 **switch**(menuItem.getItemId()){  
  
 **case** R.id.***nav\_home***:  
 Toast.*makeText*(userinfo.**this**,**"BMI calculator"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(userinfo.**this**,BmiCalculator.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_guide***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_account***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_userinfo***).setVisibility(View.***GONE***);  
 **break**;  
  
 **case** R.id.***nav\_account***:  
 Toast.*makeText*(userinfo.**this**,**"Managed Account"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(userinfo.**this**,Profile.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_guide***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_home***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_userinfo***).setVisibility(View.***GONE***);  
  
 **break**;  
  
 **case** R.id.***nav\_userinfo***:  
 Toast.*makeText*(userinfo.**this**,**"Information Page"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(userinfo.**this**,userinfo.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_guide***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_home***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_account***).setVisibility(View.***GONE***);  
 **break**;  
  
 **case** R.id.***nav\_guide***:  
 Toast.*makeText*(userinfo.**this**,**"Guide Page"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(userinfo.**this**,workout.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_userinfo***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_home***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_account***).setVisibility(View.***GONE***);  
 **break**;  
 }  
 **return true**;  
  
 }  
 });  
  
  
 }  
  
 **private void** userinfo2() {  
 **databaseReference** = FirebaseDatabase.*getInstance*().getReference().child(**"User Information"**).child(**"User BMI details"**);  
 **databaseReference**.addValueEventListener(**new** ValueEventListener() {  
 @Override  
 **public void** onDataChange(@NonNull DataSnapshot dataSnapshot) {  
  
 String bmicheck=dataSnapshot.child(**"userbmi"**).getValue().toString();  
 String height=dataSnapshot.child(**"userheight"**).getValue().toString();  
 String weight=dataSnapshot.child(**"userweight"**).getValue().toString();  
 **heightview**.setText(height);  
 **weightview**.setText(weight);  
 **bmiview**.setText(bmicheck);  
 }  
  
 @Override  
 **public void** onCancelled(@NonNull DatabaseError databaseError) { }  
 });  
  
 }  
  
 **private void** userinfo1() {  
 **databaseReference** = FirebaseDatabase.*getInstance*().getReference().child(**"User Information"**).child(**"User Details"**);  
 **databaseReference**.addValueEventListener(**new** ValueEventListener() {  
 @Override  
 **public void** onDataChange(@NonNull DataSnapshot dataSnapshot) {  
  
 String name=dataSnapshot.child(**"name"**).getValue().toString();  
 String age=dataSnapshot.child(**"userage"**).getValue().toString();  
 String gender=dataSnapshot.child(**"usergender"**).getValue().toString();  
 nameview.setText(name);  
 ageview.setText(age);  
 genderview.setText(gender);  
  
  
  
 }  
  
 @Override  
 **public void** onCancelled(@NonNull DatabaseError databaseError) { }  
 });  
  
  
  
  
  
  
  
 }  
  
  
}

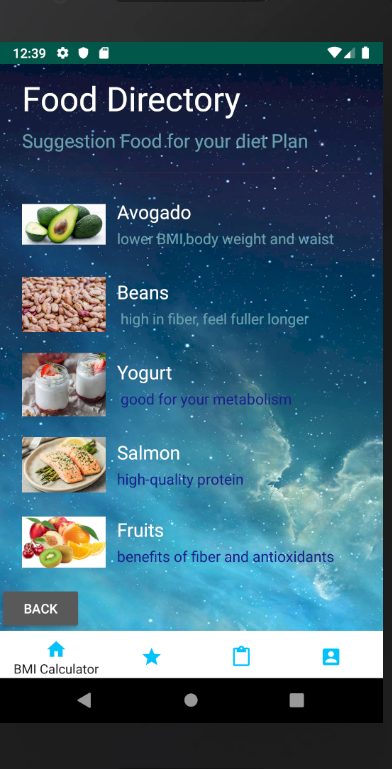
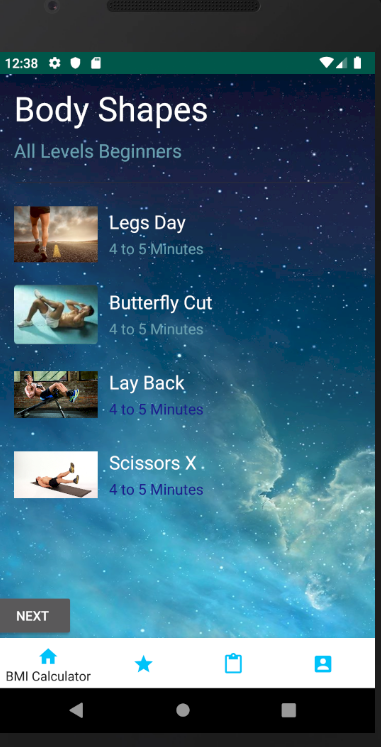
**workout.java**

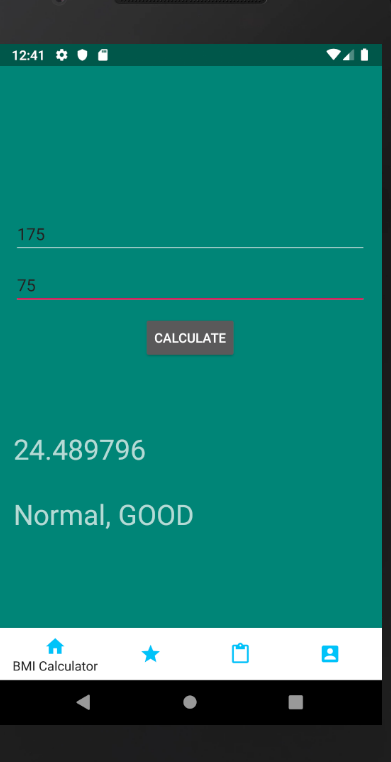
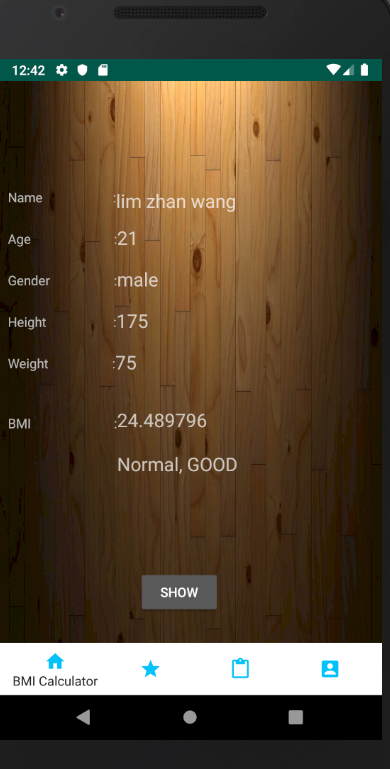
**package** com.example.healthguidesystem;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.view.MenuItem;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.Toast;  
  
**import** androidx.annotation.NonNull;  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** com.google.android.material.bottomnavigation.BottomNavigationView;  
  
**public class** workout **extends** AppCompatActivity {  
 **private** Button **next**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_workout***);  
  
  
 **final** BottomNavigationView bottomnavigationView = findViewById(R.id.***navbot***);  
 **next** = (Button) findViewById(R.id.***next***);  
 **next**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 startActivity(**new** Intent(workout.**this**,food.**class**));  
 }  
 });  
  
  
  
  
  
  
 bottomnavigationView.setOnNavigationItemSelectedListener(**new** BottomNavigationView.OnNavigationItemSelectedListener() {  
 @Override  
 **public boolean** onNavigationItemSelected(@NonNull MenuItem menuItem) {  
 **switch**(menuItem.getItemId()){  
  
 **case** R.id.***nav\_home***:  
 Toast.*makeText*(workout.**this**,**"BMI calculator"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(workout.**this**,BmiCalculator.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_guide***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_account***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_userinfo***).setVisibility(View.***GONE***);  
 **break**;  
  
 **case** R.id.***nav\_account***:  
 Toast.*makeText*(workout.**this**,**"Managed Account"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(workout.**this**,Profile.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_guide***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_home***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_userinfo***).setVisibility(View.***GONE***);  
  
 **break**;  
  
 **case** R.id.***nav\_userinfo***:  
 Toast.*makeText*(workout.**this**,**"Information Page"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(workout.**this**,userinfo.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_guide***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_home***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_account***).setVisibility(View.***GONE***);  
 **break**;  
  
 **case** R.id.***nav\_guide***:  
 Toast.*makeText*(workout.**this**,**"Guide Page"**, Toast.***LENGTH\_SHORT***).show();  
 startActivity(**new** Intent(workout.**this**,workout.**class**));  
 finish();  
 bottomnavigationView.findViewById(R.id.***nav\_userinfo***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_home***).setVisibility(View.***GONE***);  
 bottomnavigationView.findViewById(R.id.***nav\_account***).setVisibility(View.***GONE***);  
 **break**;  
 }  
 **return true**;  
  
 }  
 });  
  
 }  
}

# Example Interface Output

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