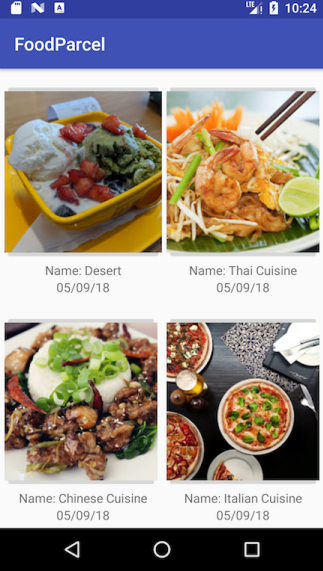



Software Development for Mobile Devices

Submission for Assignment A5.2P

Task Enhancing our favourite foods

App Screen

Activity	Screen
MainActivity	 <p>The screenshot displays the 'FoodParcel' app interface on a mobile device. The app has a blue header bar with the title 'FoodParcel'. Below the header, there is a 2x2 grid of food images. Each image is accompanied by a text label indicating the name of the food and the date '05/09/18'. The food items are: 'Desert' (top-left), 'Thai Cuisine' (top-right), 'Chinese Cuisine' (bottom-left), and 'Italian Cuisine' (bottom-right). The app is running on an Android device, as indicated by the navigation bar at the bottom.</p>

<p>FoodActivity</p>	
----------------------------	--

Parcelable Object

```
public class Food implements Parcelable{
    private String name;
    private String imageURL;
    private String keywords;
    private Date date;
    private int rating;
    private String owners;
    private boolean shareable;

    public int getImageRef() {
        return imageRef;
    }

    public void setImageRef(int imageRef) {
        this.imageRef = imageRef;
    }

    private int imageRef;

    public boolean isShareable() {
        return shareable;
    }

    public void setShareable(boolean shareable) {
        this.shareable = shareable;
    }

    public Food (String name,String imageURL, int imageRef, String keywords, Date
date, int rating, String owners) {
        this.name = name;
        this.imageURL = imageURL;
        this.imageRef = imageRef;
    }
}
```

```
        this.keywords = keywords;
        this.date = date;
        this.rating = rating;
        this.owners = owners;
        this.shareable = false;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getImageURL() {
        return imageURL;
    }

    public void setImageURL(String imageURL) {
        this.imageURL = imageURL;
    }

    public String getKeywords() {
        return keywords;
    }

    public void setKeywords(String keywords) {
        this.keywords = keywords;
    }

    public Date getDate() {
        return date;
    }

    public void setDate(Date date) {
        this.date = date;
    }

    public int getRating() {
        return rating;
    }

    public void setRating(int rating) {
        this.rating = rating;
    }

    public String getOwners() {
        return owners;
    }

    public void setOwners(String owners) {
        this.owners = owners;
    }

    @Override
    public int describeContents() {
        return 0;
    }

    @Override
```

```

    public void writeToParcel(Parcel dest, int flags) {
        dest.writeString(this.name);
        dest.writeString(this.imageURL);
        dest.writeString(this.keywords);
        dest.writeLong(this.date != null ? this.date.getTime() : -1);
        dest.writeInt(this.rating);
        dest.writeString(this.owners);
        dest.writeByte(this.shareable ? (byte) 1 : (byte) 0);
        dest.writeInt(this.imageRef);
    }

    protected Food(Parcel in) {
        this.name = in.readString();
        this.imageURL = in.readString();
        this.keywords = in.readString();
        long tmpDate = in.readLong();
        this.date = tmpDate == -1 ? null : new Date(tmpDate);
        this.rating = in.readInt();
        this.owners = in.readString();
        this.shareable = in.readByte() != 0;
        this.imageRef = in.readInt();
    }

    public static final Creator<Food> CREATOR = new Creator<Food>() {
        @Override
        public Food createFromParcel(Parcel source) {
            return new Food(source);
        }

        @Override
        public Food[] newArray(int size) {
            return new Food[size];
        }
    };
}

```

The reason using Parcelable object in this application is to pass a food instance from MainActivity to FoodActivity and vice versa.

Styles

```

<style name="App_EditTextStyle" parent="@android:style/Widget.EditText">
    <item name="android:textColor">@color/colorPrimary</item>
    <item name="android:textSize">12sp</item>
</style>

```

MainActivity

```

public class MainActivity extends AppCompatActivity {

    ImageButton imgBtn1;
    ImageButton imgBtn2;
    ImageButton imgBtn3;
    ImageButton imgBtn4;

    TextView txtCuisine1;
    TextView txtCuisine2;
}

```

```
TextView txtCuisine3;
TextView txtCuisine4;

TextView txtDate1;
TextView txtDate2;
TextView txtDate3;
TextView txtDate4;

Food food1;
Food food2;
Food food3;
Food food4;

private static final String INTENT_IMAGE_KEY = "image";
private static final String INTENT_DESCRIPTION_KEY = "description";
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    initializeUI();
}

private void initializeUI() {
    imgBtn1 = findViewById(R.id.imgBtnFirst);
    imgBtn2 = findViewById(R.id.imgBtnSecond);
    imgBtn3 = findViewById(R.id.imgBtnThird);
    imgBtn4 = findViewById(R.id.imgBtnFourth);

    txtCuisine1 = findViewById(R.id.txtCuisineName1);
    txtCuisine2 = findViewById(R.id.txtCuisineName2);
    txtCuisine3 = findViewById(R.id.txtCuisineName3);
    txtCuisine4 = findViewById(R.id.txtCuisineName4);

    txtDate1 = findViewById(R.id.txtDate1);
    txtDate2 = findViewById(R.id.txtDate2);
    txtDate3 = findViewById(R.id.txtDate3);
    txtDate4 = findViewById(R.id.txtDate4);

    food1 = new Food("Desert", "https://www.google.com.au", R.drawable.desert,
"desert", new Date(), 2, "abc@gmail.com");
    food2 = new Food("Thai Cuisine", "https://www.google.com.au",
R.drawable.thai, "thai", new Date(), 2, "abc@gmail.com");
    food3 = new Food("Chinese Cuisine", "https://www.google.com.au",
R.drawable.chinese, "chinese", new Date(), 2, "abc@gmail.com");
    food4 = new Food("Italian Cuisine", "https://www.google.com.au",
R.drawable.italian, "italian", new Date(), 2, "abc@gmail.com");
    setupView1(food1);
    setupView2(food2);
    setupView3(food3);
    setupView4(food4);
}

private void setupView1(Food food) {
    imgBtn1.setImageResource(food.getImageRef());
    txtCuisine1.setText("Name: " + food.getName());
    // txtCuisine1.setText(food.getDate());
    updateLabel(txtDate1, food.getDate());
}

private void setupView2(Food food) {
    imgBtn2.setImageResource(food.getImageRef());
```

```
        txtCuisine2.setText("Name: " + food.getName());
        updateLabel(txtDate2, food.getDate());
    }

    private void setupView3(Food food) {
        imgBtn3.setImageResource(food.getImageRef());
        txtCuisine3.setText("Name: " + food.getName());
        updateLabel(txtDate3, food.getDate());
    }

    private void setupView4(Food food) {
        imgBtn4.setImageResource(food.getImageRef());
        txtCuisine4.setText("Name: " + food.getName());
        updateLabel(txtDate4, food.getDate());
    }

    public void clickFirstButton(View v) {
        Intent intent = new Intent(this, FoodActivity.class);
        intent.putExtra("food", food1 );
        startActivityForResult(intent, 1);
    }

    public void clickSecondButton(View v) {
        Intent intent = new Intent(this, FoodActivity.class);
        intent.putExtra("food", food2 );
        startActivityForResult(intent, 2);
    }

    public void clickThirdButton(View v) {
        Intent intent = new Intent(this, FoodActivity.class);
        intent.putExtra("food", food3);
        startActivityForResult(intent, 3);
    }

    public void clickFourthButton(View v) {
        Intent intent = new Intent(this, FoodActivity.class);
        intent.putExtra("food", food4 );
        startActivityForResult(intent, 4);
    }

    private void updateLabel(Textview txtDate, Date date) {
        String myFormat = "dd/MM/yy";
        SimpleDateFormat sdf = new SimpleDateFormat(myFormat, Locale.US);
        txtDate.setText(sdf.format(date));
    }

    @Override
    protected void onActivityResult(int requestCode, int resultCode, Intent data) {
        super.onActivityResult(requestCode, resultCode, data);
        if(resultCode == RESULT_OK) {
            Food food = data.getExtras().getParcelable("food_back");
            switch (requestCode) {
                case 1:
                    food1 = food;
                    setupView1(food);
                    break;
                case 2:
                    food2 = food;
                    setupView2(food);
                    break;
                case 3:
                    food3 = food;
            }
        }
    }
}
```

```

        setupView3(food);
        break;
    case 4:
        food4 = food;
        setupView4(food);
        break;
    default:
        break;
    }
}
}
}
}

```

FoodActivity

```

public class FoodActivity extends AppCompatActivity {

    ImageView imgDetail;
    EditText edtImageName;
    EditText edtLocation;
    EditText edtKeywords;
    EditText edtDate;
    EditText edtEmail;
    EditText edtRating;
    ToggleButton btnShare;
    Calendar myCalendar = Calendar.getInstance();
    Food food;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_detail_food);
        Bundle data = getIntent().getExtras();
        food = data.getParcelable("food");
        setupView(food);
    }

    private void setupView(Food food) {

        imgDetail = findViewById(R.id.imgDetail);
        edtImageName = findViewById(R.id.edtImageName);
        edtLocation = findViewById(R.id.edtLocationImage);
        edtKeywords = findViewById(R.id.edtKeywords);
        edtDate = findViewById(R.id.edtDate);
        edtEmail = findViewById(R.id.edtEmail);
        edtRating = findViewById(R.id.edtRating);
        btnShare = findViewById(R.id.btnShare);

        imgDetail.setImageResource(food.getImageRef());
        edtImageName.setText(food.getName());
        edtLocation.setText(food.getImageURL());
        edtKeywords.setText(food.getKeywords());
        edtEmail.setText(food.getOwners());
        btnShare.setChecked(food.isShareable());
        edtRating.setText(String.valueOf(food.getRating()));
        updateLabel(food.getDate());
    }
}

```

```
        final DatePickerDialog.OnDateSetListener date = new
DatePickerDialog.OnDateSetListener() {

            @Override
            public void onDateSet(DatePicker view, int year, int monthOfYear,
                                   int dayOfMonth) {
                // TODO Auto-generated method stub
                myCalendar.set(Calendar.YEAR, year);
                myCalendar.set(Calendar.MONTH, monthOfYear);
                myCalendar.set(Calendar.DAY_OF_MONTH, dayOfMonth);
                updateLabel(myCalendar.getTime());
            }

        };

        edtDate.setOnClickListener(new View.OnClickListener() {

            @Override
            public void onClick(View v) {
                // TODO Auto-generated method stub
                new DatePickerDialog(FoodActivity.this, date, myCalendar
                    .get(Calendar.YEAR), myCalendar.get(Calendar.MONTH),
                    myCalendar.get(Calendar.DAY_OF_MONTH)).show();
            }

        });

        private void updateLabel(Date date) {
            String myFormat = "dd/MM/yy";
            SimpleDateFormat sdf = new SimpleDateFormat(myFormat, Locale.US);
            edtDate.setText(sdf.format(date));
        }

        public void clickEditButton (View v) {
            food.setName(edtImageName.getText().toString());
            food.setImageURL(edtLocation.getText().toString());
            food.setRating(Integer.valueOf(edtRating.getText().toString()));
            food.setShareable(btnShare.isChecked());
            food.setKeywords(edtKeywords.getText().toString());
            food.setOwners(edtEmail.getText().toString());
            String dateString = edtDate.getText().toString();
            Date date= null;
            try {
                date = new SimpleDateFormat("dd/MM/yy").parse(dateString);
            } catch (ParseException e) {

            }
            food.setDate(date);

            Intent intent = new Intent();
            intent.putExtra("food_back", food);
            setResult(RESULT_OK, intent);
            finish();
        }
    }
}
```