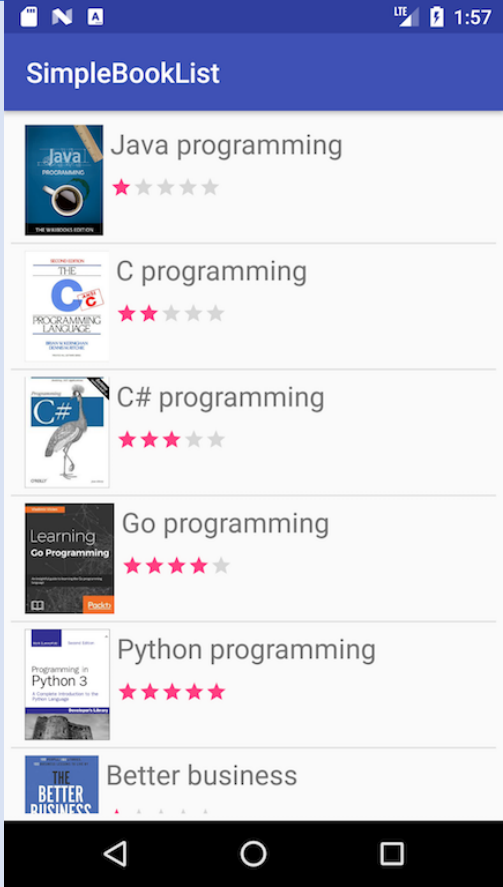


Software Development for Mobile Devices

Submission for Assignment A5.1P

App Screenshot

Activity	Screen
MainActivity	

Source code

Book Adapter

```
public class BookAdapter extends RecyclerView.Adapter<BookAdapter.BookViewHolder> {  
    private List<Book> bookList;  
  
    public class BookViewHolder extends RecyclerView.ViewHolder {  
        public TextView title;
```

```

        public ImageView logo;
        public RatingBar ratingBar;
        public BookViewHolder(View view) {
            super(view);
            title = (TextView) view.findViewById(R.id.txtTitle);
            logo = view.findViewById(R.id.imageViewIcon);
            ratingBar = view.findViewById(R.id.ratingStar);
        }
    }

    public BookAdapter(List<Book> moviesList) {
        this.bookList = moviesList;
    }

    public BookViewHolder onCreateViewHolder(ViewGroup parent, int viewType) {
        View itemView = LayoutInflater.from(parent.getContext())
            .inflate(R.layout.book_row, parent, false);

        return new BookViewHolder(itemView);
    }

    @Override
    public void onBindViewHolder(BookViewHolder holder, int position) {
        Book book = bookList.get(position);
        holder.title.setText(book.getTitle());
        holder.logo.setImageResource(book.getImageRef());
        holder.ratingBar.setRating(book.getRating());
    }

    @Override
    public int getItemCount() {
        return bookList.size();
    }
}

```

MainActivity

```

public class MainActivity extends AppCompatActivity {

    private List<Book> bookList = new ArrayList<>();
    private RecyclerView recyclerView;
    private BookAdapter mAdapter;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        initializeUI();
    }

    private void initData() {
        bookList.add(new Book("Java programming", R.drawable.java, 1));
        bookList.add(new Book("C programming", R.drawable.cplusplus, 2));
        bookList.add(new Book("C# programming", R.drawable.csharp, 3));
        bookList.add(new Book("Go programming", R.drawable.go, 4));
        bookList.add(new Book("Python programming", R.drawable.python, 5));
        bookList.add(new Book("Better business", R.drawable.betterbusiness, 1));
        bookList.add(new Book("Business bible", R.drawable.bookbible, 2));
        bookList.add(new Book("Meditation handbook", R.drawable.handbook, 3));
        bookList.add(new Book("Meditation", R.drawable.meditation, 4));
        bookList.add(new Book("How to start a business", R.drawable.savemoney, 5));
    }
}

```

```
        mAdapter.notifyDataSetChanged();
    }

    private void initializeUI() {
        recyclerView = (RecyclerView) findViewById(R.id.recyclerView);
        mAdapter = new BookAdapter(bookList);
        RecyclerView.LayoutManager mLayoutManager = new
LinearLayoutManager(getApplicationContext());
        recyclerView.setLayoutManager(mLayoutManager);
        recyclerView.setItemAnimator(new DefaultItemAnimator());
        recyclerView.addItemDecoration(new DividerItemDecoration(this,
LinearLayoutManager.VERTICAL));
        recyclerView.setAdapter(mAdapter);
        initData();
    }
}
```

Book

```
public class Book {

    private String title;
    private int imageRef;
    private int rating;

    public Book (String title, int imageRef, int rating) {
        this.title = title;
        this.imageRef = imageRef;
        this.rating = rating;
    }

    public String getTitle() {
        return title;
    }

    public int getImageRef() {
        return imageRef;
    }

    public void setTitle(String title) {
        this.title = title;
    }

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

    public int getRating() {
        return rating;
    }

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