



THE LIBRARY MANAGEMENT SYSTEM

ATUT GORKHALI / HND 4RTH SEMESTER



AGENDAS

- Introduction
- Product Schedule
- Database Plan
- User Interface
- Android Manifest
- Android Studio
- Genymotion
- Conclusion/Recommendation

INTRODUCTION

DEVELOP LIBRARY MANAGEMENT SYSTEM FOR ISMT

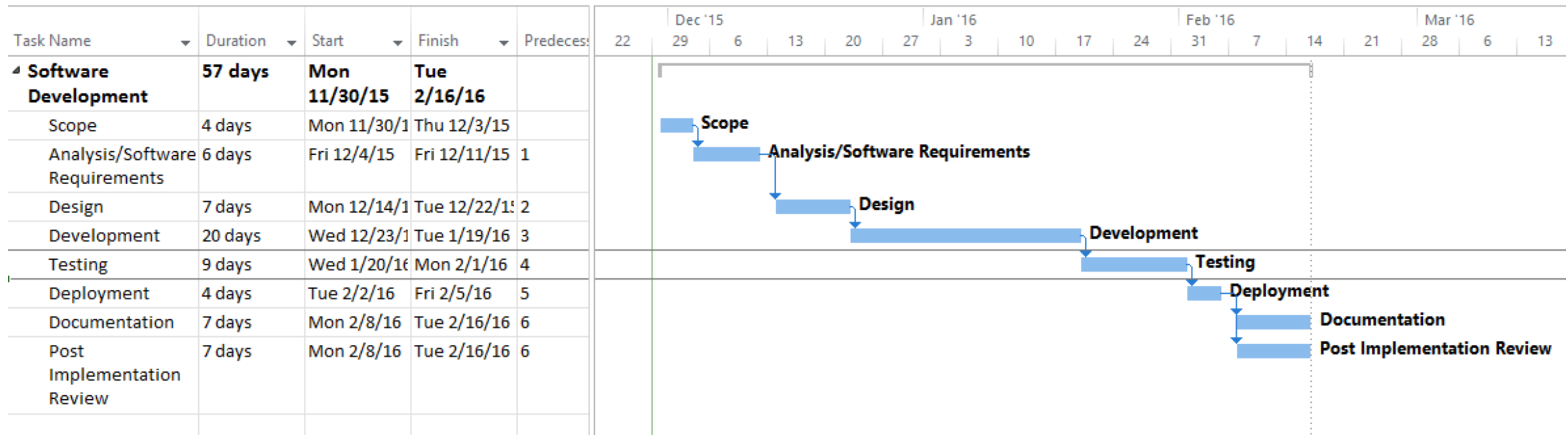
System should allow Administrator to :

- Add and manages books in library management system
- Add and manage students, users
- Manage fines, book return
- Manage wish list
- Manage faculty modules

System should allow member users to :

- Reserve books
- Search and view available books
- Add books to wish list

PROJECT SCHEDULE : TASK BREAK DOWN



DATABASE PLAN: SQLITE

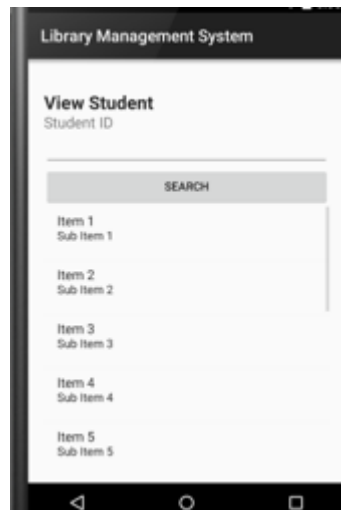
- lighter rendition of SQL database
- SQLite requires small amount of memory
- an open source database
- accessible on each android database

Tables		
Name of Table	Attibutes	Requirement in design
tbl_Student	StudentID, Name, Address, Faculty, semester	Stores student information
tbl_Book	BookID, Name, price, edition, publisheddate	Stores books information
tbl_Reserved	BookiID,StudentID,Date	Stores reserve information of books
tbl_Wishlist	BookName, Edition, Author	Stores
tbl_User	Userid, username, password	Store user information
tbl_Teacher	TeacherID, Name, Address, Qualification, subject	Store teacher information
tbl_adminLogin	userID, username,password	Store admin user information

USER INTERFACE PLAN

UI design using xml

- Block of XML code is written for each UI control used in system.
- xml file first need to be linked with corresponding java class
- allows programmer to separate UI design from application behavior



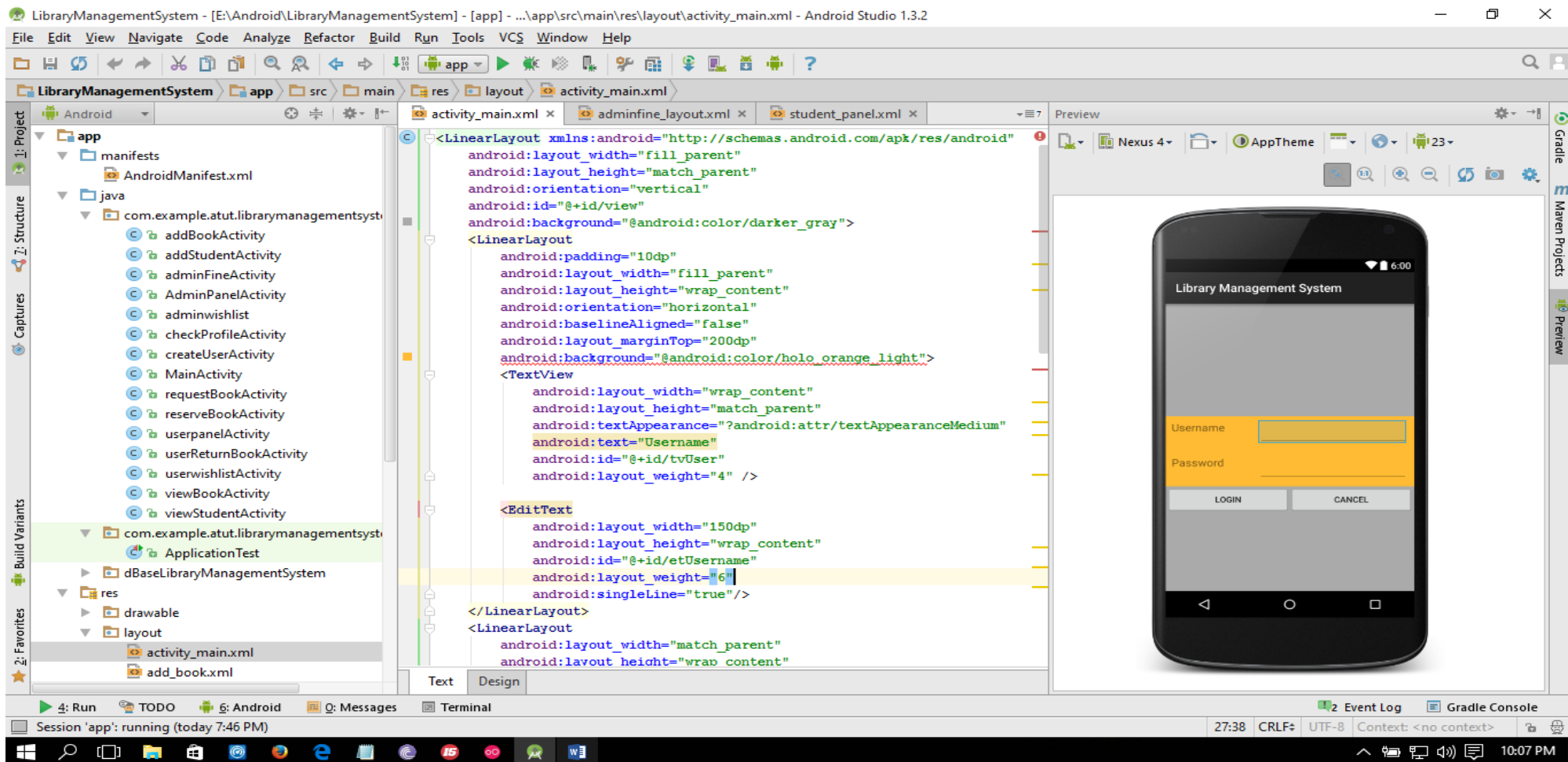
```
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:padding="20dp"
    android:id="@+id/view">
    <TextView
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="View Student"
        android:textAppearance="?android:attr/textAppearanceLarge"
        android:textStyle="bold"
        android:layout_marginTop="20dp"/>
    <TextView
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:textAppearance="?android:attr/textAppearanceMedium"
```

```
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
```

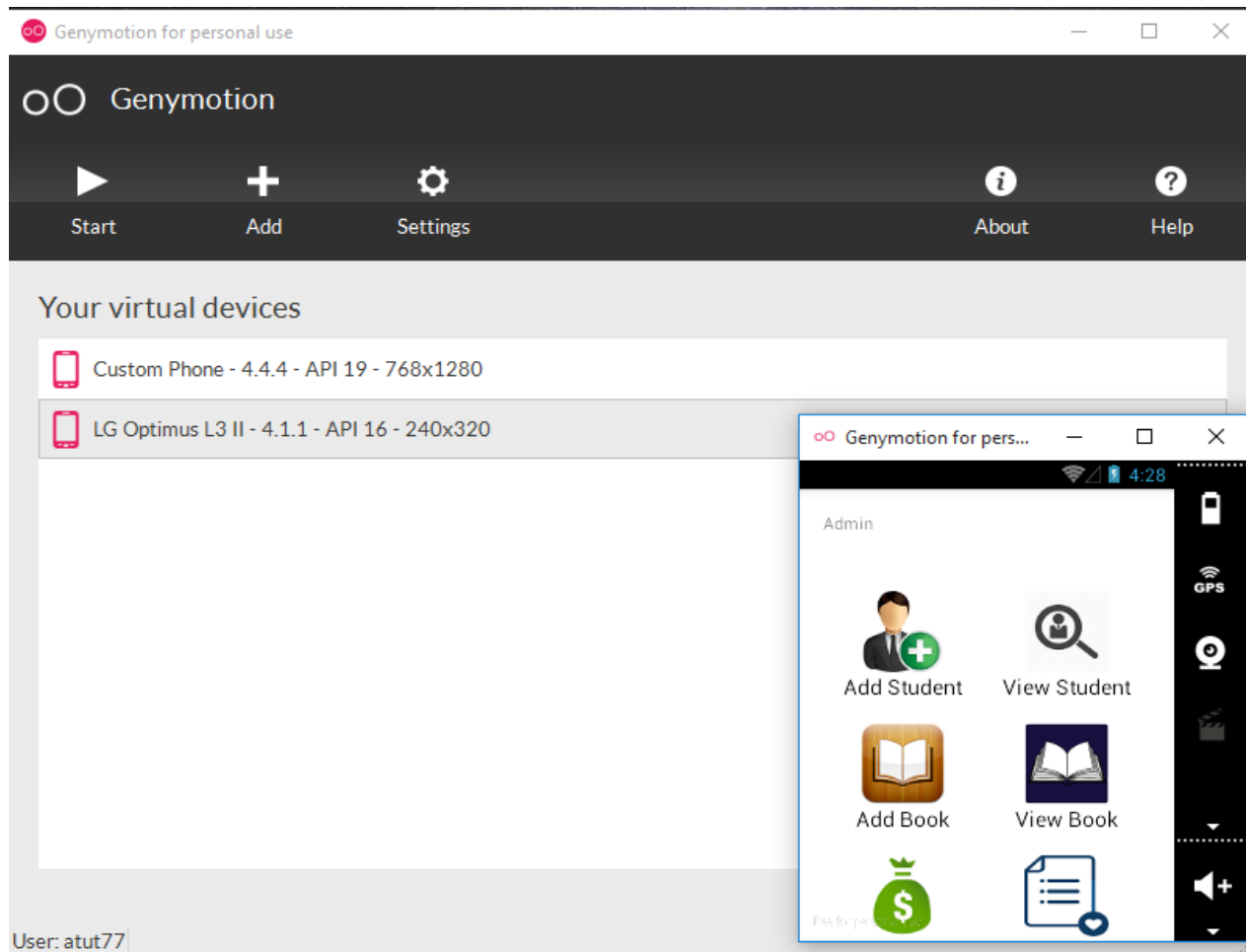
ANDROID MANIFEST

- Defines all java packages
- Describes system components
- Defines all process
- Defines all permissions
- Defines all libraries
- Describes java API required by system

ANDROID STUDIO: IDE



GENYMOTION: ANDROID SIMULATOR



CONCLUSION / RECOMMENDATION

- Always follow user and technical manual
 - To add new page, create XML, Java Class and add information in Android Manifest
 - Modify XML to modify UI
 - Modify database using Java Class DBCONNECTION
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- It is recommended to add online support
 - Improve UI using Google Material Design