

Requirements

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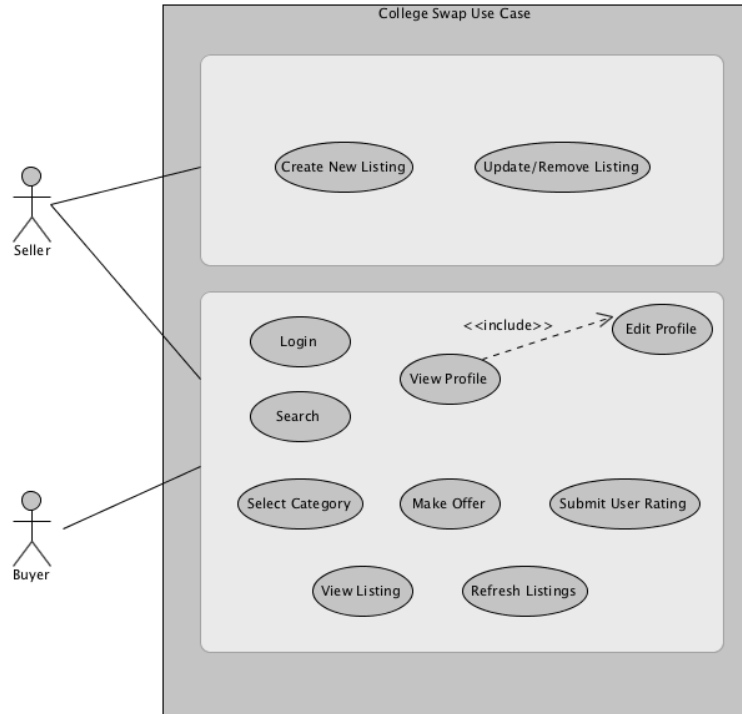
Problem Definition

- Students trade textbooks and tickets
- Facebook available but suboptimal
- Solution?
 - Design problem-specific app
 - User-friendly

Scope of System

- University of Alabama
- Textbooks, Tickets, Subleases
- Cellphone app only
- App provides information & contact method
- App will not arrange payment

Use Case Diagram

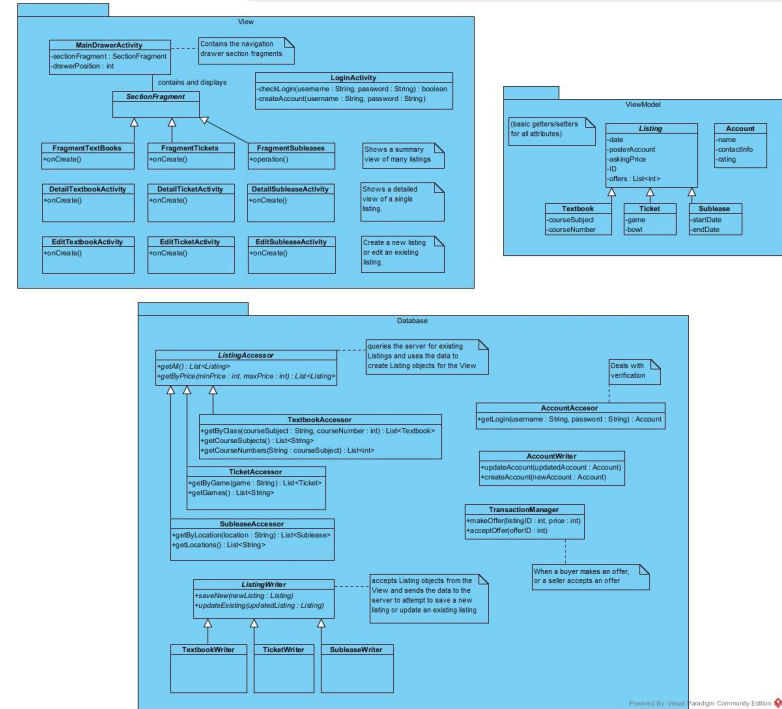


Use Case Name:	Post a new listing
Actors:	Seller
Summary:	This use case describes the basic way that a seller would interact with the application.
Basic Flow:	<ol style="list-style-type: none">1. A seller logs into the application using their '.edu' email address.2. The seller selects to create a new listing and fills in all the required information.3. The seller selects to submit the posting. The new listing is then added and available for other users to see.4. The use case terminates after the listing is submitted.

Use Case Name:	Find and purchase a listing
Actors:	Buyer
Summary:	This use case describes the basic way that a buyer would interact with the application.
Basic Flow:	<ol style="list-style-type: none">1. A buyer logs into the application using their '.edu' email address.2. If the buyer knows what they are looking for they can select to search for it specifically. It will then show all of the listings that match what the buyer searched for. Skip to step 4.3. The buyer selects a specific category and all the listings for that category are displayed.4. The buyer selects to view a specific listing.5. The buyer selects to make an offer and a notification is sent to the seller.6. The use case terminates at this point.

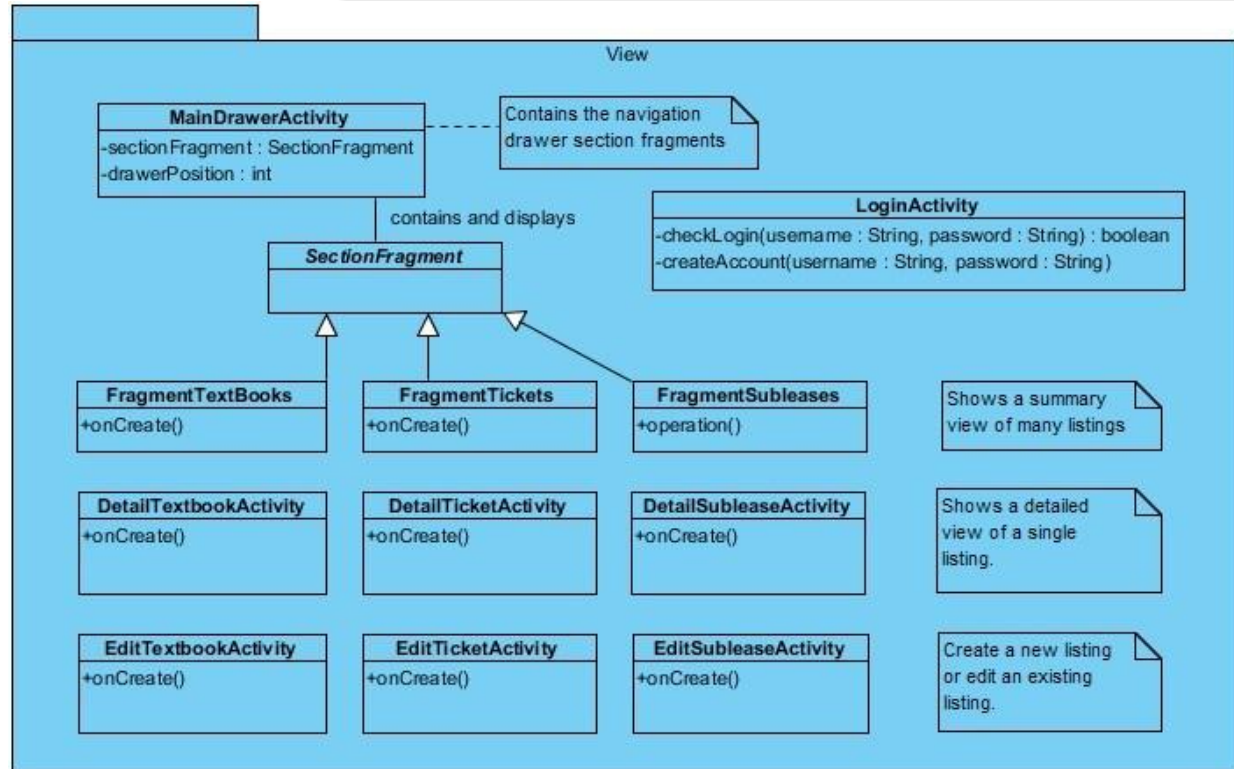
High-level Class Diagram

- 3 packages
 - View
 - ViewModel
 - Database
- Using Model View ViewModel pattern



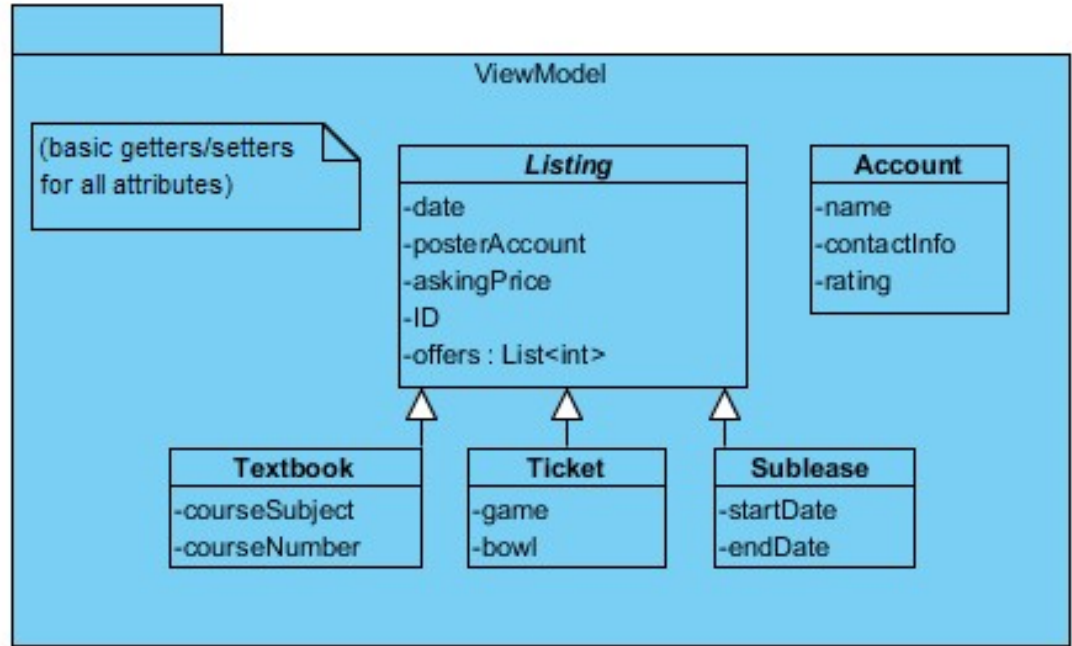
Class Diagram: View Package

- Navigation Drawer
 - Fragments
- Detailed Activity
- Edit Activity



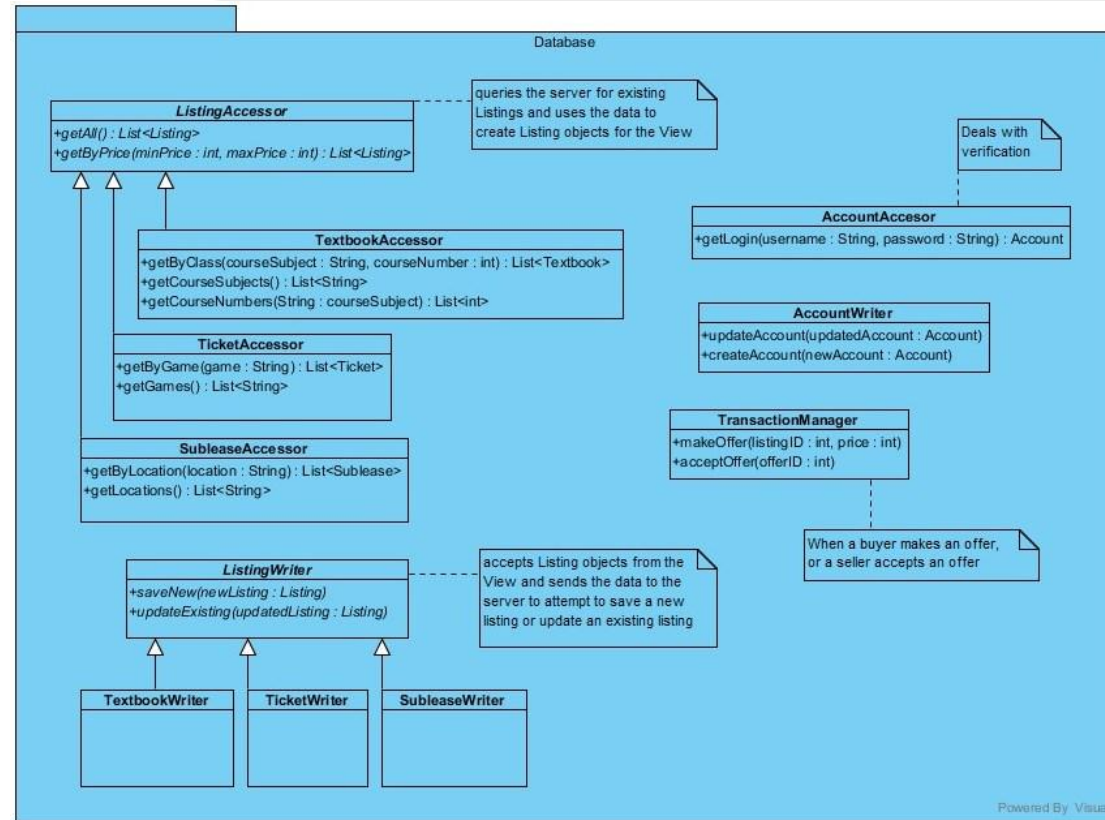
Class Diagram: ViewModel

- POJOs
 - getters/setters

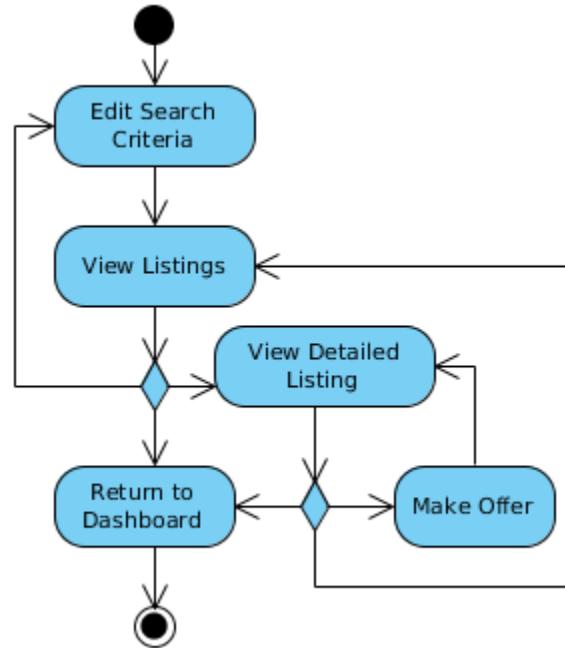
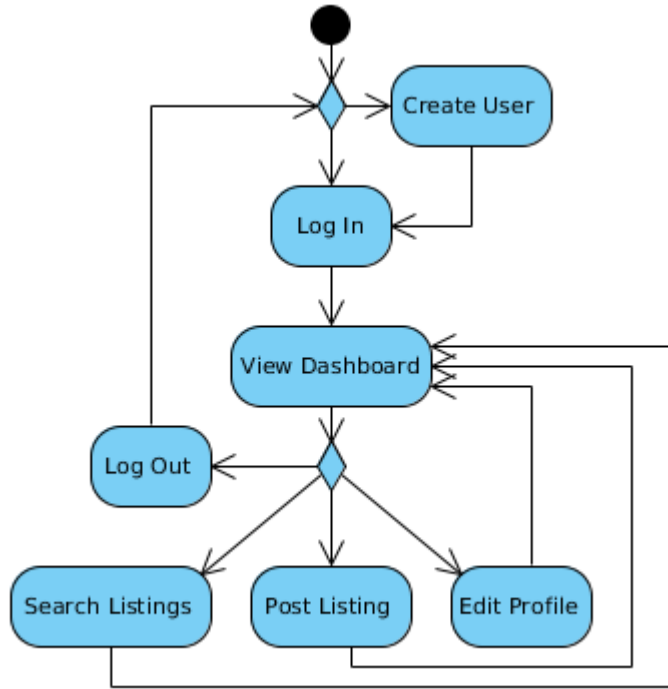


Class Diagram: Database

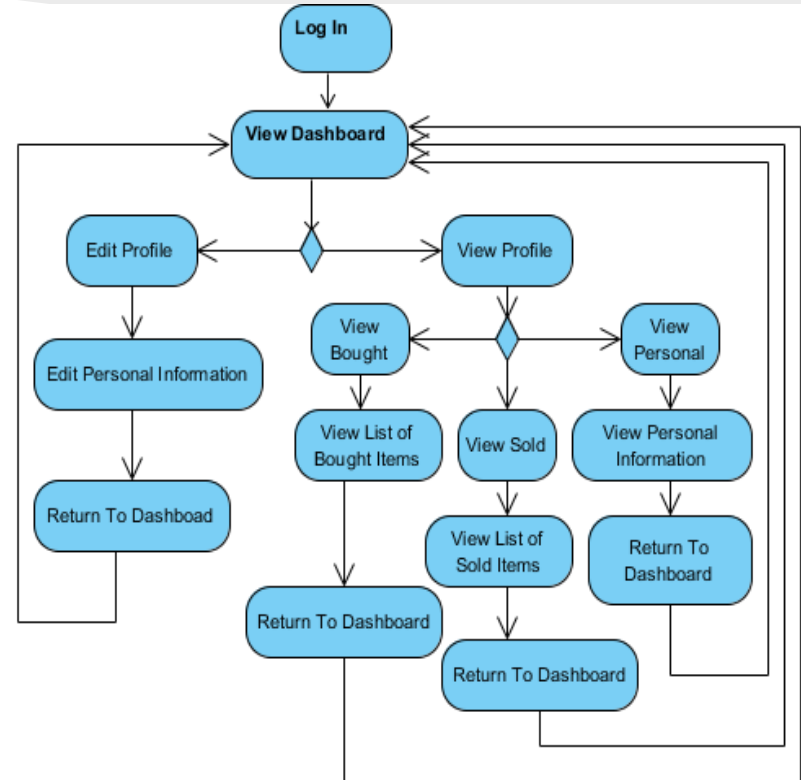
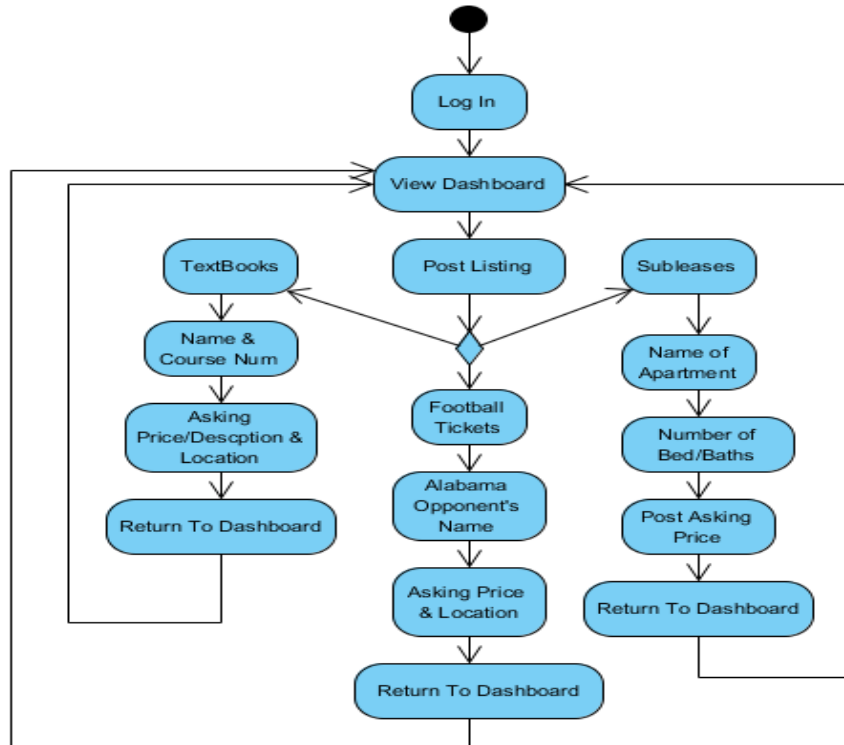
- Listing
 - Accessors- get existing
 - Writers-
 - save new
 - update existing
- Account
 - Accessor- verification
 - Writer- update/create
- TransactionManager
 - make offers
 - accept offers



Activity Diagrams



Activity Diagrams (cont.)



Feature Priority

- Required
 - Post listings
 - View listings overview. Detail view for single listing.
 - Buy listings or make offers.
 - Basic communication, like email or phone number
- Possible
 - Push notifications for listings
 - User transaction ratings
- Future work (if time permits)
 - Long-term server support

Potential Risks

- Security for password protection
- Inherent risk of meeting strangers
- Ratings
- Moderating listings

Summary Discussion

- Trading goods and services
 - Textbooks
 - Football tickets
 - Subleases
- Better interface than Facebook or Craigslist
- Help college students save money