**An Apartment Manager Application (web and mobile application)**

An application that manages and tracks properties for landlords

Manages posts to social media to aid in the marketing of rental properties

Track property issues

Help tenants find rental properties

**Platforms:**

Java

JSP

JSF

Android

HTML

CSS

Javascript

jQuery

Spring

MVS

React

**Database:**

MySQL

Oracle

**Web Server:**

Apache Tomcat

Websphere

**Message Queue:**

Sender and receiver of the message do not need to interact with the message queue at the same time. Messages placed onto the queue are stored until the recipient retrieves them.

IBM MQ

Oracle Advanced Queuing

Java Message Service

Amazon Simple Queue Service (cloud)

Strom MQ (cloud)

Iron MQ (cloud)

Apache ActiveMQ (opensource)

Apache Kafka (open source)

Apache Qpid (open source)

**Application Features:**

1. **Landlord**
   1. Landlord Profile
      1. Name
      2. Email
      3. Contact Number
   2. Post Property
      1. Pictures
      2. Address
         1. Street number
         2. City
         3. Region
         4. ZIP Code
      3. Map Location
         1. Maps integration
         2. GPS
         3. Latitude Longitude
      4. Cost
      5. Terms
      6. Occupied or Unoccupied status
      7. Property type
         1. Retail
         2. Commercial
         3. Residential
      8. Other Details
      9. Post to social media or wherever
      10. Landlord Contact Details
          1. Email
          2. Phone
   3. Manage Apartments
      1. List Apartments (Add filters)
         1. Occupied
         2. Unoccupied
         3. Needs Maintenance
         4. Past due payments
      2. Assign Tenants
      3. Send notice to tenants
      4. Receive messages from feelers
      5. Apartment Maintenance
         1. Details on repairs and maintenance
         2. Cost
         3. Track security deposit based on maintenance and damages
      6. Collect Payment
         1. Payment gateway?
         2. Track payments
         3. Send payment reminders
   4. Receive Alerts
      1. Managed Apartment
         1. Need maintenance
         2. Collect Payment
         3. Find tenant
         4. Tenant contract is up
         5. Remind other activities to be performed
      2. Posted Apartment
         1. Remind that the apartment has no tenants and suggest actions
         2. Post to social media every 2-3 days
         3. Look for tenants
         4. Update apartment details
   5. Property report
      1. Portfolio
      2. Apartment
2. **Tenant**
   1. Tenant Profile
      1. Name
      2. Email
      3. Contact Number
   2. Find Apartments
      1. Can be anonymous user
      2. Filters
         1. Car park
         2. Bedrooms
         3. Size
         4. Price range
         5. Within Radius of marker
         6. Within City
      3. List Apartments
         1. List
         2. Marker
      4. Send contact request to landlord
   3. Rent Apartment
   4. Pay Apartment
      1. Payment gateway?
      2. Track payments
   5. Request maintenance
      1. Details on repairs and maintenance
      2. Cost
      3. Track security deposit based on maintenance and damages
   6. Receive Alerts
      1. Payments
      2. Landlord notices
3. **Admin**
   1. BAN Tenant
   2. BAN Landlord
   3. View Tenant and Landlord Profile
   4. View Property

**Process Flow:**

**Wire Frame:**