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Yardscape Initial Design

Objective:
Growing up, a frequent practice of my
family was to search for yard sales to
go to on weekends. Currently, marketplace
apps exist for only selling items,
however the key difference is yard sales
must occur at a certain time.
Yardscape aims to accommodate that
niche by having listings occur at
certain times. The main hurdle for
the UI is properly parsing the
dates and updating the View according
Using a Firebase database should
help accommodate this problem.

UI Design

Navigation Menu

```
┌──────────────────┐
│ username         │
│ ─────────────    │
│ π  Home          │
│ ∂  Create        │
│ R  Account       │
│ ⊙ Settings       │
└──────────────────┘
```

onClick()

```
┌──────────────────┐
│ ≡   Yardscape     │
│ ──────────────    │
│                   │
│    Fragment       │
│                   │
│                   │
└──────────────────┘
```

Selecting any option will then update the fragment with its respective fragment

Can keep scrolling downward ↳

```
┌──────────────────┐
│ ┌──────────────┐ │
│ │   Listing    │ │
│ └──────────────┘ │
│ ┌──────────────┐ │
│ │   Listing    │ │
│ └──────────────┘ │
│ ┌──────────────┐ │
│ │   Listing    │ │
│ └──────────────┘ │
└──────────────────┘
```

Home Fragment

```
┌────────────────┐
│ ┌────┐         │
│ │Title│        │
│ └────┘         │
│ ┌────┐         │
│ │Date│         │
│ └────┘         │
│ ┌────┐         │
│ │Time│         │
│ └────┘         │
│ ┌────┐         │
│ │Desc│         │
│ └────┘         │
│ ┌─────┐┌──────┐│
│ │Upload││Image ││
│ └─────┘└──────┘│
│ ┌──────┐       │
│ │Create│       │
│ └──────┘       │
└────────────────┘
```

Pressing the button will upload to Firebase

Create Fragment

AccountFragment
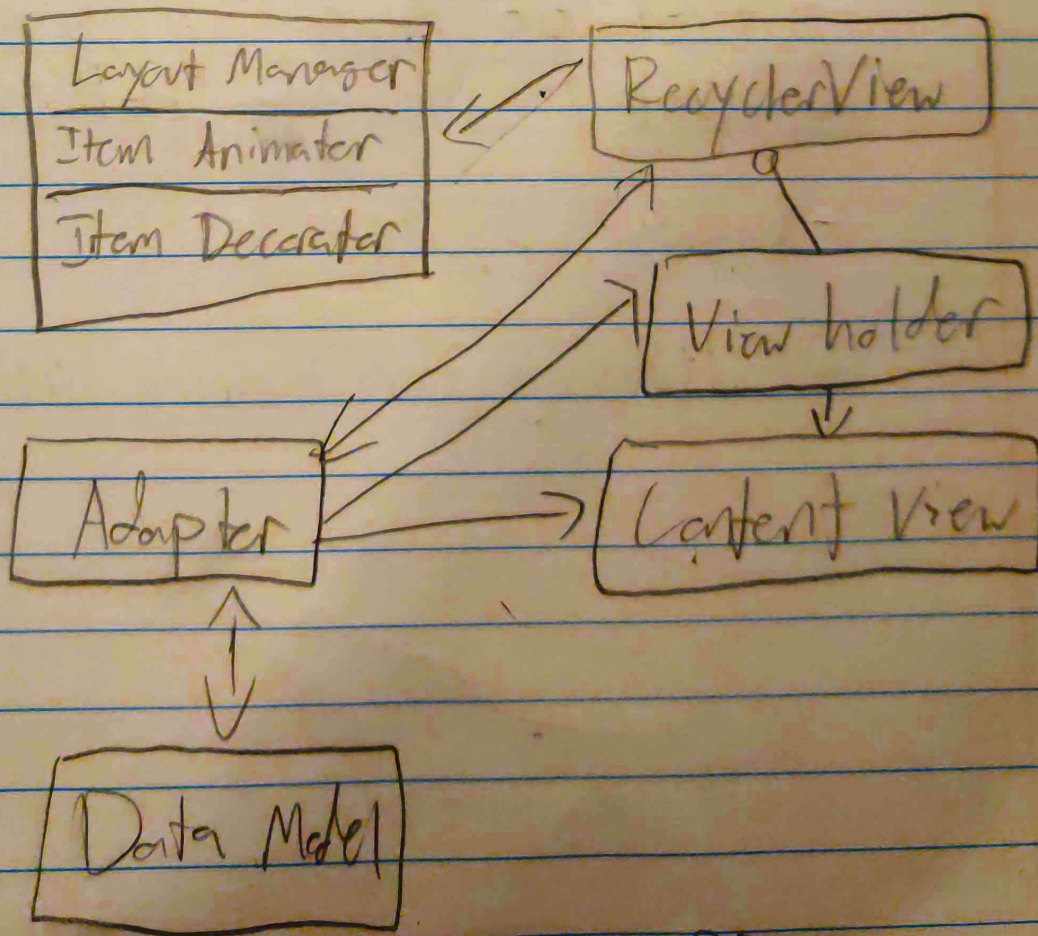
Account
*****

My Listings

↓

Settings Fragment

various
user
settings
will
appear
here
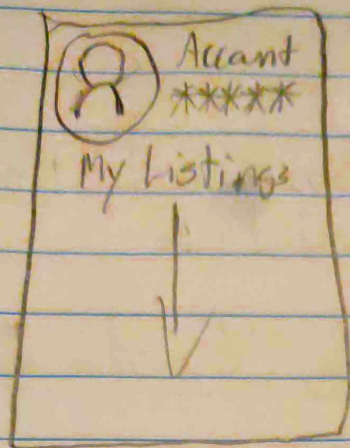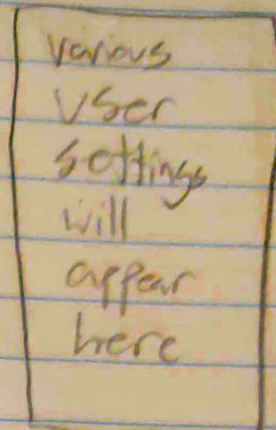
The UI currently uses a recyclerView to display listing items. This data structure is optimal as it can support adding more elements with minimal help

| Layout Manager |
| Item Animater |
| Item Decorater |

RecyclerView

View holder

Adapter

Content View

Data Model

RecyclerView Diagram

Deliverables
- UI that parses listings from Firebase database

- Create listing functionality

- Ability to click on and view listings

- User Account login

Possible Future Features

- Firebase Messaging to allow buyers to message sellers

- Review System

- Filtering for viewing listings