



UT-3

Food and Item Transportation App

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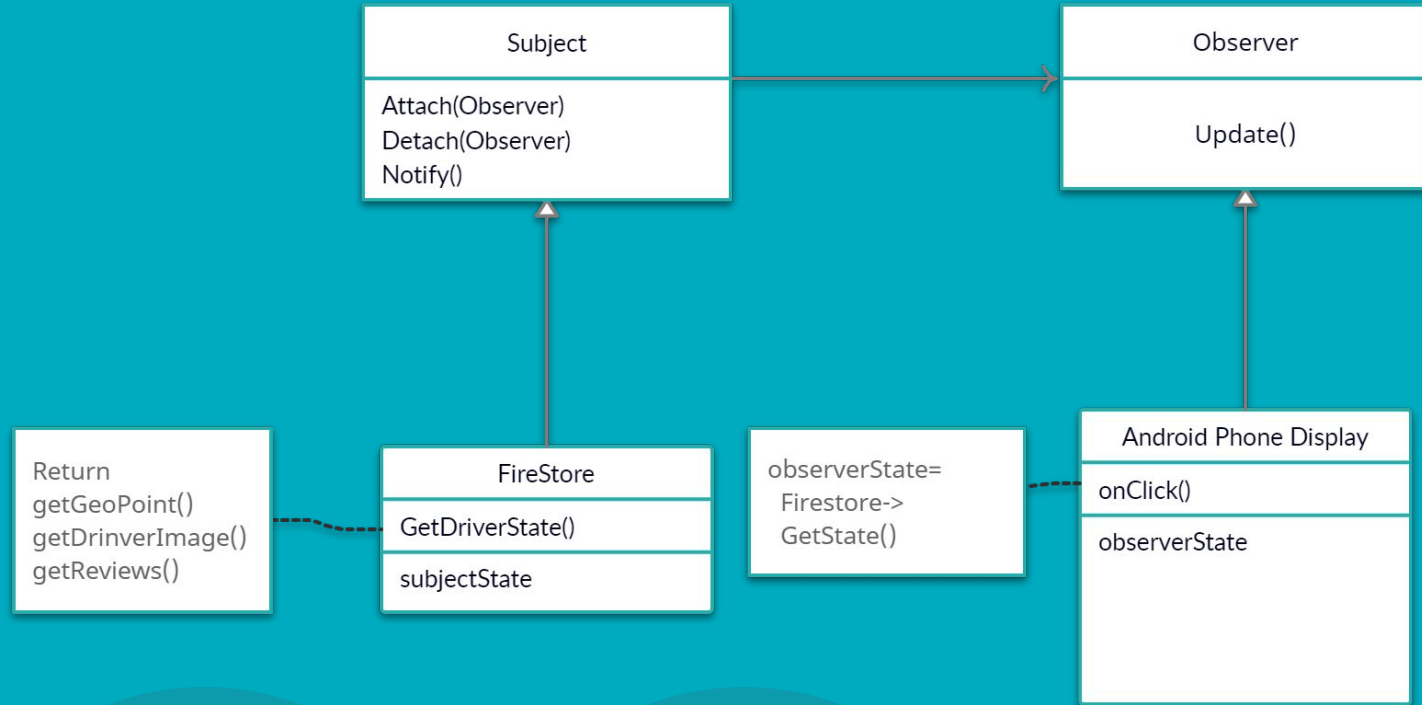
Purpose/target audience

- Purpose
 - To fulfill remote orders of food and delivery of items from Big Box stores and Fast food restaurants from the comfort of home.
- Performed via
 - Firebase Firestore
 - Firebase Auth
 - Google Maps Geo API
- Audience
 - Any person 18 and up needing remote contactless delivery

The system implementation

- Firebase Firestore
 - Remote Storage of user records
 - Real-time access to these resources
 - Full-write access
 - Full freedom
- Remote user authentication
 - FirebaseAuth
 - Remote storage and retrieval of user account credentials
 - Google login flow
 - Password storage and account autofill
- Robust Android libraries
 - Picasso
 - Glide module
 - Android Recycler and Scrollview

Design pattern from chapt 7, sec 7.2



Client server flow

- Application Architecture is Client Server based
 - One big caveat
 - "No code is executed on the server side"
- Firebase Firestore is literally only being used as realtime storage.
 - Only code being executed on the server is the server access rules
- GPS data is stored in Firestore after first login
 - Used for final directions, distance, and time calculations after order is complete

Demo

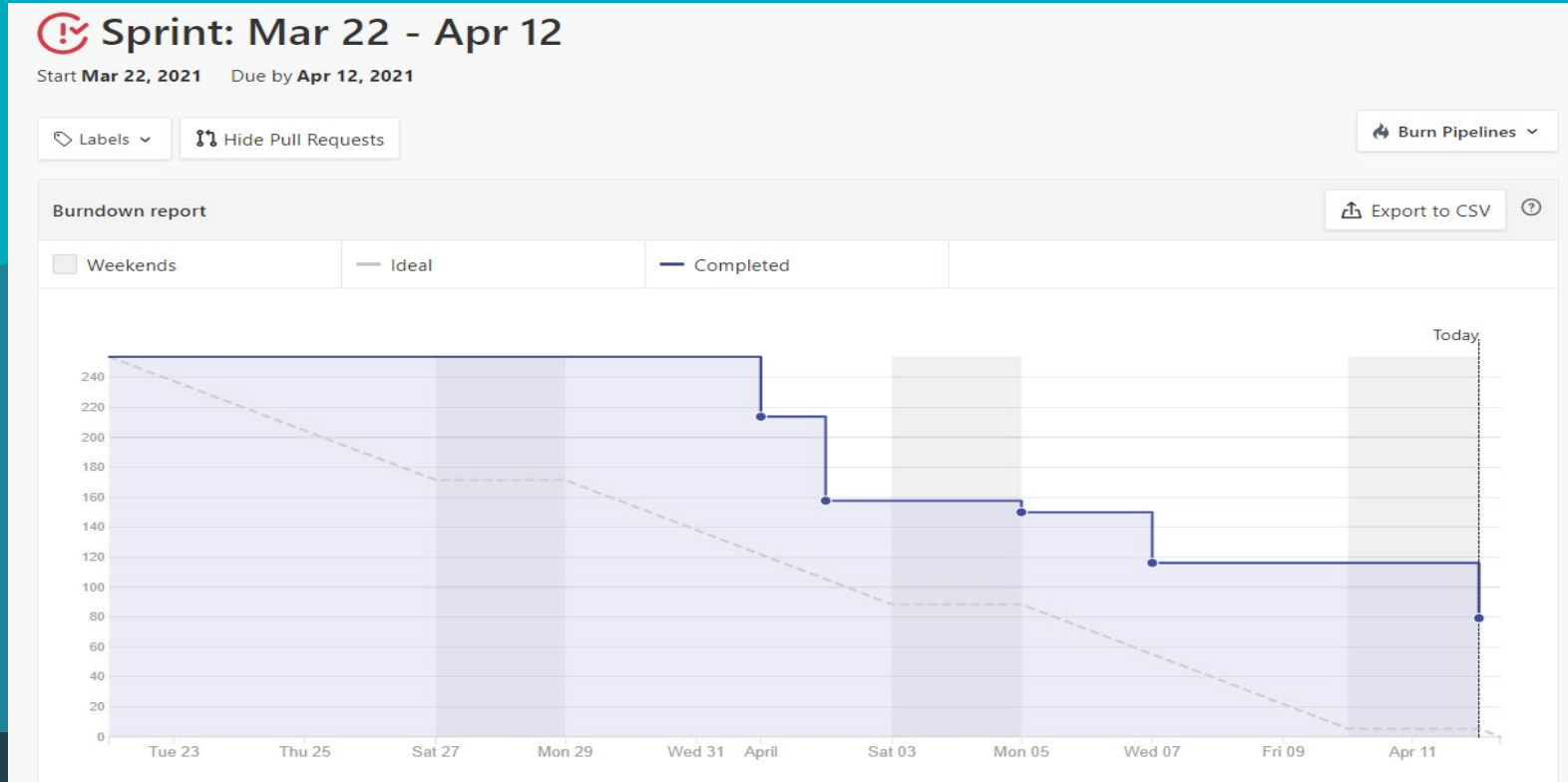
Project Boundaries

- Real-time driver tracking on a GPS enabled GoogleMap
- Actual credit card processing
- Realtime GPS data from the emulator
- Development restricted to the emulator

Velocity Chart



Burndown Chart 1st Half



Burndown Chart 2nd Half

Sprint: Apr 12 - May 3

Start **Apr 12, 2021** Due by **May 3, 2021**

Labels ▾

Hide Pull Requests

Burn Pipelines ▾

Burndown report

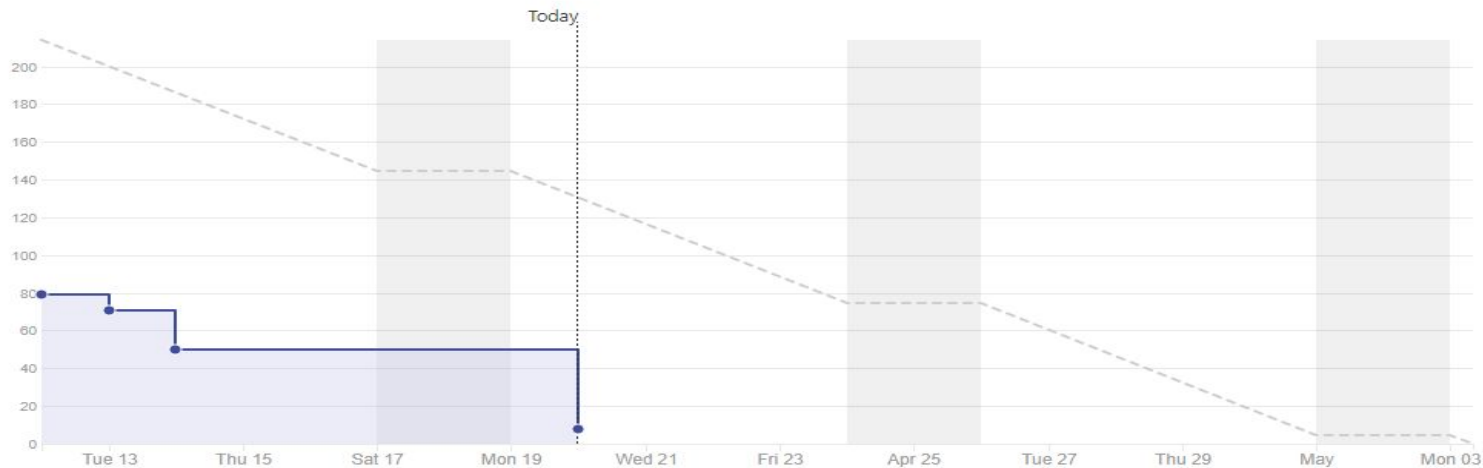
Export to CSV



Weekends

Ideal

Completed



Setbacks or any sorts of problems we had

- Loading the Github files onto a new set of programmer's computers was difficult
 - Large set-back in terms of dev-time
- Trying to find the right time for everyone to meet up every week.
- Implementing route generator for store to client locations.
- Implementing the RecyclerView for the store item list.

Remaining Open Issues

- Location based closest store recommendation
- Create App logo and Icon
- Pseudo-Credit Card input with valid entry verification

Conclusion

- **Courier App**
 - Multiple stores
- **Pseudo Delivery tracking capabilities**
 - Distance and time information
- **Google Services**
 - FireBase
 - GEO API
 - Maps
 - Directions
- **Works on older and new devices**

Questions?

