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| **Name:** | eBay Scraper Project |
| **Summary:** | Program to update a database and provide user with a running data for eBay Listings each time they scrap |
| **Version:** | 1.0.0 |
| **Preconditions:** | Active MySQL with preconfigured Table  Active Servlet with GET & POST setup  Working Android with App  Working Internet Connection (In production not for testing) |
| **Triggers:** | User Requests Historical or Scraper Data for an item |
| **Main Success Scenario:** | 1. User Request Scrapper Data for an item of interest 2. Android App will create a new thread 3. This new thread will send a GET API request to our Servlet 4. Servlet will then take this request and first check if we already have some data for this item 5. If we have data already use that as our base to add to or it will create a new blank data asset for this request 6. Connect to eBay using a URL connection and download the HTML 7. Process through the collection of prices adding them to our data set. 8. Send updated data to our MySQL server 9. Send back a JSON of our data to the Android App 10. Display the new information to the user |
| **Alternative Success Scenarios:** | 1. User Requests Historical Data 2. Android App will create a new thread 3. This new Thread will send a GET API request to our Servlet 4. Servlet will take this request and check if we have data for this historical request from MySQL. 5. If no data exists, it will scrap for data and create it first. 6. If data exists, it will send back a JSON to the Android App 7. The Android App will display the historical data to the user |
| **Postconditions:** | After a request either nothing should be changed if historical data exists or should update the MySQL and provide all data to the user. |
| **Business Rules:** | 1. System should keep a historical data set that all users have access to run, but cannot see what other users have run 2. No Saved data of users like IP or other identifying information |
| **Notes:** | Android App is just an interface for the user to do API requests and display data. This is our View  Servlet does most of the processing of requests querying for HTML data and prices pulling in data from the MySQL |
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