

Uri Trejo & Noah Habte presented to Timothy Lethbridge, SEG4911

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Project overview

 Main goal: Automate a system to scrape and store online data, find deals and notify the client of new postings in real time.

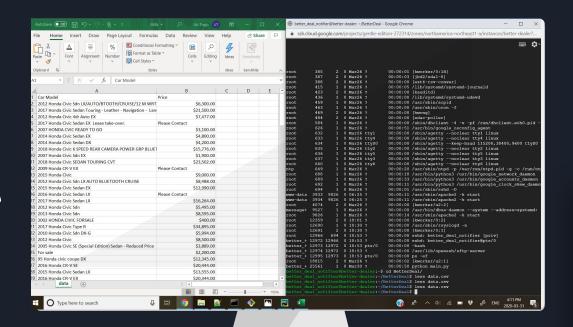




Toyota Corolla 2010
Ottawa | <13 minutes ago
Toyota Corolla 2010 Color: silver No accident and clean
255.000 km

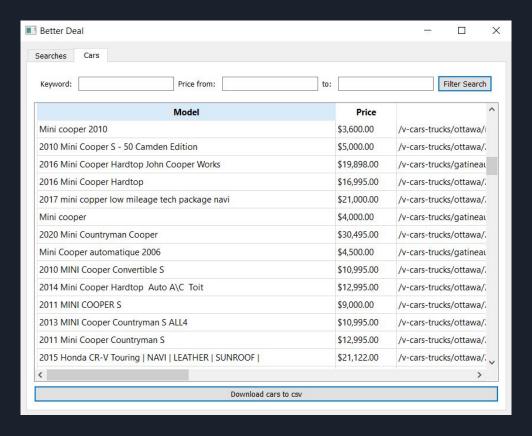
\$6,499.00

Product: Server side

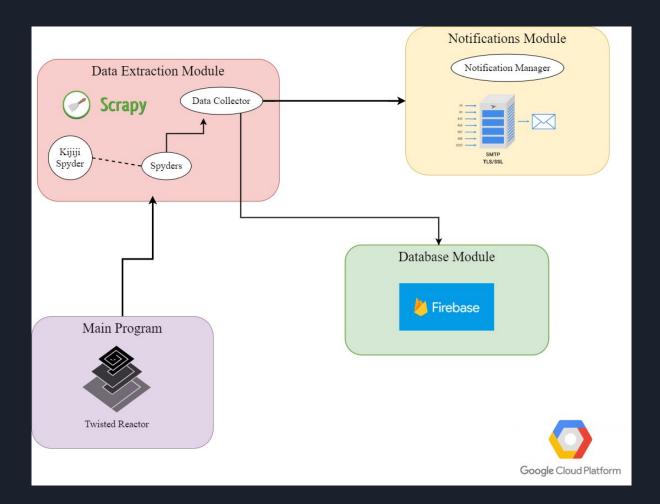




Product: Client side



Design Architecture: Server Side



Database **Firebase** User Interface

Design Architecture: Client Side



- Series of manual functional test cases (general and specific), for instance:
 - Comparing website observed data with collected data.
 - Bringing network down to ensure service persistence.
 - Monitor task over 1 month + (summer) running.
 - Creating a posting and verifying that the notification email is successfully sent.



- Pair Programming to improve code quality and mutual agreement.
- Unit tests to cover:
 - Database Module
 - Notifications Module
 - Data Collector
 - Acceptance Testing:
 - Sole customer

Lessons Learned







- Do research on the frameworks you'll use (something that will be escalable, and on which you can find good examples/ documentation).
- Read through the terms of usage and the legal status of everything surrounding your project.
- Testing: create well defined test cases for each module before integrating them. Isolating a problem later on becomes a lot harder.
- Keep a record of all the installations necessary for the software to run. It is easy to lose track.

