

Parking Simplified

Team 21

Bogdan Vochin, David Minin, Hugh Matsubara, Kevin Zhang, Vangjush Ziko, Wen De Zhou



BOB DOESN'T WANT TO WORRY ABOUT PARKING HE WANTS TO FOCUS ON THE EVENT.



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1. Application Model (MMVC) Design Pattern

- Naturally follows from Android
- We attempted to follow something similar since our components needed to be modular
- Most of the design was followed however we had to cheat when short on time (filtering)
- Ran into Asynchronous issues
- Learned that problems arise when we steer off track stick to the design

Issue with our controller and Asynchronous HTTP request to server.

```
private List<AbstractParkingLot> getLotsFromServer(double lat, double lng) {
   RequestQueue queue = Volley.newRequestQueue(this);
   String url = "https://lotspot-team21.herokuapp.com/api/lots";
                       JSONArray arr = jObj.getJSONArray("lots");
```

- 2. Interfacing our backend with hardware
 - Interesting to see our design pattern pay off
 - Hardware -> Server -> Users
 - Important for the integrity of the business idea
 - Shows off the power of our MMVC model

Restful Server hosted on Heroku

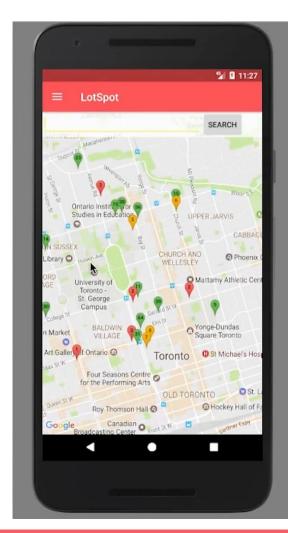
Lots

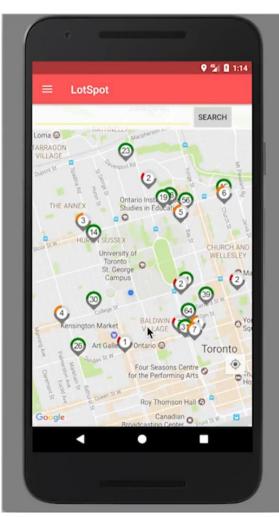
Add New

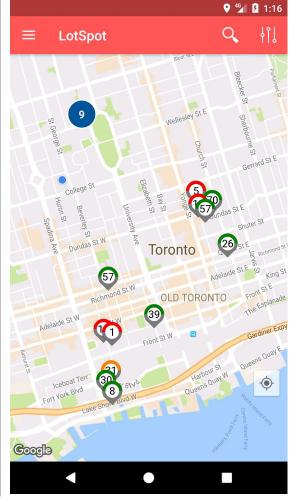
Index	Name	Address	Lat	Lng	Phone Number	Capacity	Occupancy	Price	Payment Type	Hours	HandicapParking	Edit	Delete
1	IMPARK Park	47 Richmond St E	43.652332	-79.375988	877- 909- 6199	38	12	3	Hourly	Mon-Sun 24HR	true	Edit	Delete
2	Precise Park	8 Hoskin Ave	43.664443	-79.394948	416- 398- 4052	20	8	8	Hourly	Mon-Sun 24HR	true	Edit	Delete
3	University of Toronto Parking Services	McIennan Physical Laboratories Russell Street Toronto, ON M5S 2S2	43.659928	-79.398202	416- 978- 7275	25	24	4.50	Hourly	Mon-Fri 5:00pm - 6:00am, Sat-Sun All day	true	Edit	Delete
4	Trinity College, University of Toronto	University of Toronto - Trinity College 6 Hoskin Ave Toronto, ON M5S 1H8	43.665530	-79.395475	416- 978- 2522	30	27	3	Hourly	Mon-Sun 24HR	true	Edit	Delete

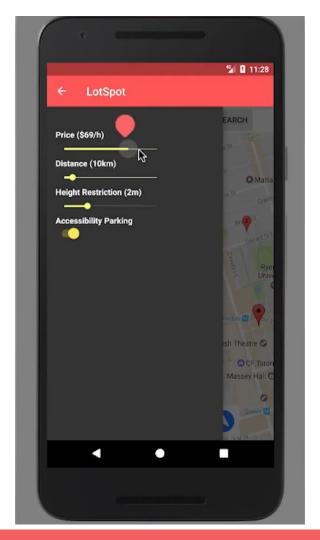
3. Ul Improvements

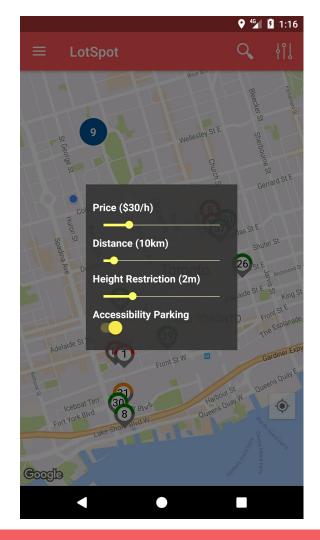
- We had to go over many iterations or our design.
- After our second Iteration we got some feedback on our UI from Albert our TA.
 - i. Albert critiqued our UI fairly heavily, which got us to focus and change many items.
 - ii. Asked friends / others for feedback and suggestions.
 - iii. Focus on easy understandable UI.
 - 1. Our original UI had filtering and list in un-intuitive segments(hidden list).
 - 2. Original search bar was difficult to see.

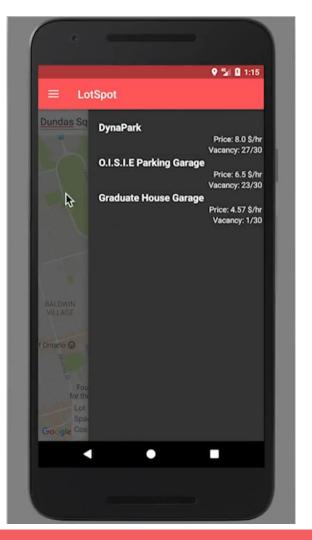


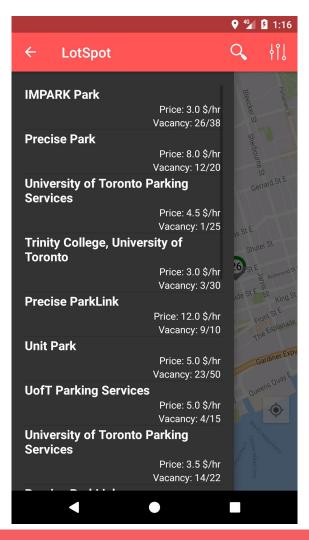












Workflow

- We used slack to communicate and github issues for task distribution
- People's tasks were usually assigned modularly, so people can work on their own files and merging was simple
- Had weekly meetings and would add meetings as needed for phases
- Significant decisions we made (good or bad)
 - Peer review sessions (good, allowed people to make sure code was working and functioned with other people's work)
 - Assigning more than one person to a task when there is bottleneck (good, used for listview and controller)
 - Tasks were due day before phase, no follow up in between (bad, changed after first phase. We ran into the issue that some tasks were more complicated or time consuming than others)

All Time Statistics



Total Messages 87% public channels, 0% private channels, 13% DMs



Storage Used
For 19 files.

3 Integrations Used







and 1 more...

Note: Stats computed up to Apr 4, 2017 8:00:00 PM EDT and they were last updated 4 hours and 43 minutes ago.

Recent Statistics

66 messages have been posted by people (plus another 2 messages from integrations) and 1 file has been uploaded. There are 5 people reading and 5 people posting, out of 7 people on your team.

•	① 2	2 Open ✓ 30 Closed	Author ▼	Labels →	Projects ▼	Milestones ▼	Assignee 🕶	Sort →
-		Put server up on Haroku #45 by VochinBogdan was closed 3 days ago						
-		Search bar UI improvement #41 by VochinBogdan was closed 17 hours ago					S	
•		Filter Pop up #40 by VochinBogdan was closed 6 days ago					1	
-		List or lots peeks when clicking search #39 by VochinBogdan was closed 9 days ago						
-		Periodic update information on application #37 by VochinBogdan was closed 12 hours ago						
-		Controller #36 by VochinBogdan was closed 6 days ago					2	
-		Dynamic Markers #35 by VochinBogdan was closed 6 days ago					9	
-		Iteration report #29 by VochinBogdan was closed 9 days ago					å ï[
-		Dynamic Data #28 by VochinBogdan was closed 14 days ago					***	
-		Current Location Marker #27 by VochinBogdan was closed 9 days ago					**	
-		Android Controller #26 by VochinBogdan was closed 16 days ago						
•		Ul Improvements: Map Style #24 by VochinBogdan was closed 7 days ago						
•		Parking Lot API #23 by VochinBogdan was closed 13 days ago					18	
•		Iteration report #29 by VochinBogdan was closed 9 days ago Dynamic Data #28 by VochinBogdan was closed 14 days ago Current Location Marker #27 by VochinBogdan was closed 9 days ago Android Controller #26 by VochinBogdan was closed 16 days ago UI Improvements: Map Style #24 by VochinBogdan was closed 7 days ago Parking Lot API					## ##	



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