

Sprint 1 Document

Team Black Lightning ⚡

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Preface

This document describes the Scrum workflow for Sprint 1. It contains the following: Daily Scrums and Sprint Review.

Each Daily Scrum contains the following: date, start time, end time, meeting location, and a summary of every team member's performance.

The Sprint Review contains the following: start time, end time, meeting location, and the meeting summary.

Daily Scrums

Day 1: 11/10

Start Time: 8:45 am

End Time: 9:00 am

Meeting Location: Online

Oscar Leung: Today, I started the scrum planning. No impediment.

Jason Liu: Today I will review the code to see if I can make any improvements to the pre-existing classes.

Stephen Reyes: Started Scrum planning, checked the required tasks for the app, to see what we needed to maintain and update for later. No impediments.

Phuong Tran: I checked the homework to see what were the requirements. As the app did not have the map and payment function, I splitted work to the team, allowed Oscar and Ziwei to pick if they wanted to do Paypal or Map. I need to see what is needed to be added to the app, since last time we only focused on testing important core functions.

Ziwei Wu: Yesterday, I did not do anything to help my team meet the Sprint goal. Today, I will work on the Scrum planning. I do not see any impediments.

Day 2: 11/13

Start Time: 12:00 pm

End Time: 12:15 pm

Meeting Location: Online

Oscar Leung: Yesterday, I started the scrum. Today, I volunteered to start on Paypal. An impediment is learning new material for paypal api.

Jason Liu: Yesterday I reviewed the code and made minor bug fixes. Today I will try to fix my android studio emulator so I can live test changes.

Stephen Reyes: Reviewed code for ListView on our ParkingListActivity, and looked up how to make ArrayAdapter work with our ListView.

Phuong Tran: After checking other functions, I saw that there are many bugs that need fixing: Date and Time were not perfect, app crashed when user input invalid location to the database.

Ziwei Wu: Yesterday, I helped with the Scrum planning. Today, I will do research on how to implement Google Maps onto an Android app. An impediment might be figuring out which methods I need.

Day 3: 11/14

Start Time: 9:00 am

End Time: 9:15 am

Meeting Location: CS Club at SJSU

Oscar Leung: Yesterday, I started a bit of paypal. Today, I watch paypal videos and started following it. I also looked into the brain tree development for it as well.

Jason Liu: Yesterday I tried to fix Android studio's emulator. Today I did not do anything to assist my team.

Stephen Reyes: Reimplemented Firebase to see how we could optimize our database structure. JSON file storage seems to work.

Phuong Tran: I reported the bugs to the team and schedule the meeting so that we could meet on Tuesday. I could not come since I went to work, but team did not meet so there was no implementation.

Ziwei Wu: Yesterday, I did research on the implementation of Google Maps in an Android app and experimented with some code. Today, I will figure out which methods the map needs and delete the unnecessary code. An impediment might be having to create new methods and to test and experiment with them.

Day 4: 11/15

Start Time: 12:00 pm

End Time: 12:15 pm

Meeting Location: Online

Oscar Leung: Yesterday, I did not get far into paypal, so I read more paypal developer api. I think integrating paypal will be really hard.

Jason Liu: Yesterday I did not assist my team. Today I will look over the changes and see what else needs to be fixed.

Stephen Reyes: Was at work today, had an assignment due tonight. Planned to work tomorrow.

Phuong Tran: Scheduled meeting for team next Thursday. Since Stephen usually hung out at CS Club and helped me implement the code for the project, I prepared the plan for the bug fixes with him.

Ziwei Wu: Yesterday, I added a method that returns the latitude and longitude of a parking spot based on its address as well as coding some map related methods. Today, I will help my team with debugging. An impediment might be the time required with debugging.

Day 5: 11/16

Start Time: 9:00 am

End Time: 9:15 am

Meeting Location: CS Club at SJSU

Oscar Leung: Yesterday, I read more about paypal and restarted on Paypal. I am feeling discouragement from my mood cause I am not making good progress in paypal.

Jason Liu: Yesterday I reviewed our new code to understand what we had done. Today I will fix the emulator.

Stephen Reyes: Finished Firebase reimplementation. Finished fixing ParkingListActivity with Phuong, and it can pull info from the database correctly now.

Phuong Tran: Stephen and I used the code provided by Ziwei to implement map function. We added the map function and search parking spot activity. This allows users to search the zip code for spots available in 10km. We also managed to fix the crash by having Stephen update the database. However, the location filter still requires updating in case the database receive false input from users.

Ziwei Wu: Yesterday, I could not help my team with anything. Today, I will help with any testing of map related functions. I do not see any possible impediments.

Day 6: 11/17

Start Time: 1:30 pm

End Time: 1:45 pm

Meeting Location: MLK Library

Oscar Leung: Yesterday, I made a temporary button for the paypal. Today, I will try again on following the paypal integration. There was compiling error I found that was not reading the dependency correctly.

Jason Liu: Yesterday I fixed the emulator by switching over to a different API and readjusting the SDK settings. Today I will help with the testing of the new MapsActivity class methods.

Stephen Reyes: Wasn't able to work on the project today, was out of town.

Phuong Tran: The search result only shows one location instead of all. I fixed it by changing the ListView in the xml file. Since it was a minor change, there is no problem for me. Tomorrow, I need to start looking at displaying the spot's information.

Ziwei Wu: Yesterday, I helped with the testing of map related functions. Today, I will work on refining the map-related activity by getting rid of unnecessary methods. I will also work on adding a "View on Map" button to the parking spot activity and have to move to the map activity. Finally, I will test to see if it works. An impediment might be the time required for coding and debugging.

Day 7: 11/20

Start Time: 3:00 pm

End Time: 3:15 pm

Meeting Location: CS Club at SJSU

Oscar Leung: Yesterday, I fixed one of the dependency by looking up the correct `com.android.paypal.sdk` that was need to continue the development. Today, I was follow more of the youtube video and try to find easier ways to integrate paypal. I figured that by now that I needed help and implementing paypal will be very hard.

Jason Liu: Yesterday I helped test the mapping functions and debugged some of the errors found. Today I reviewed the code but did not help my team in reaching sprint goals.

Stephen Reyes: Reviewed `userID` and `pSpotID` with Phuong to see how we can pass information between activities. Utilizing `putExtra` and `getExtra` functionalities.

Phuong Tran: The `ListView` search result needs to be implemented with `setOnItemClickListener`, I met up with Stephen to know how we could use the `userID` and `parkingID` that we got from the search result and send them to the `ParkingSpotActivity`. It is very important as we saw that we got correct locations in the console. We need to finish this part tomorrow so that two activities can communicate with each others and this will be the core of Map function and this will be an impediment.

Ziwei Wu: Yesterday, I got the `MapsActivity` to function as intended. Today, I will help with implementing the Paypal payments into our app. An impediment would be not be able to get the Paypal payments to work.

Day 8: 11/21

Start Time: 9:00 am

End Time: 9:15 am

Meeting Location: CS Club at SJSU

Oscar Leung: Yesterday, I continued to try fix the dependency and tried spurring each other on.

Jason Liu: Yesterday I reviewed the code for any potential problems. Today I will help to debug changes and revise the README document.

Stephen Reyes: Worked with Ziwei and Phuong to debug everything wrong with `ParkingListActivity`. We had typo issues with the variable names passing information between Activities, and we had to refactor all of the variables to fix this. Since the IDE did not recognize the variable names (it's a String), it did not catch the typo error. Starting to look through all the code and comment anything to make it easier to read and maintain.

Phuong Tran: Today, I met up with Ziwei, Jason, and Stephen to complete the map function and fix all the bugs we had. We could send the `parkingID` and `userID` from `Parking Listing Activity` to `Parking Spot Activity` by using `putExtra` and `getExtra`. Now when we tap on the search result, it will display the parking spot's information, and allow users to view its location. We also added filter to prevent user from entering wrong location, wrong `startDate` and wrong `startTime`. I also added the icon for the app. Finally, I finished my part by creating a `View Owned Parking Spot Activity`, which allows owner to see every parking spots they have and its information. Since we have this function, I believe View

Rented Parking Spot Activity will be required in the future. As View Rented will be similar to View Owned, I believe we can just modify the code with no trouble.

Ziwei Wu: Yesterday, I tried to help with the implementation of Paypal with no luck. Today, I will help my teammates to debug, test, and/or code anything. An impediment would be the time required to debug and test any errors before being able to move on to coding new methods and/or activity classes.

Sprint Review

Start Time: 11:00 am

End Time: 11:15 am

Meeting location: CS Club at SJSU

Meeting Summary:

The following functionalities were planned for this Sprint:

1. Being able to view a parking spot on a map
2. Being able to search for nearby parking spots based on a search location
3. Being able to pay for a rented parking spot with Paypal
4. Being able to view a list of owned parking spots.

Numbers 1,2, and 4 were completed.

Number 3 was not completed because of complications in obtaining the required dependencies in the gradle file.

What went well?

Besides the task 4 that we failed to successfully implement, all the other additional functionalities were implemented without any major issues.

What could be improved?

In the early planning phase we could have included more tasks to be completed this Sprint. Map function need fully implementing so that it can shows rented parking spots. Paypal function has not been completed because we did not have clear communication. We need to have a more specific scheduled plan for Sprint 2 so that we can complete all the additional functionalities and debug. Our plan will be adding rented parking spots to the database, as well as adding the "rent" and "view rented spots" functionality to the app.