

How to Contribute to CPP Parking

<https://tinyurl.com/h4tml4m>

Step 0. Install Some Needed Software

- git
- java 8
- docker
- docker-compose

*If you just want to run the backend, without the need to develop on it, you only need docker and docker-compose

Assuming you're on Ubuntu 16.04...

- To install java 8: <http://tipsonubuntu.com/2016/07/31/install-oracle-java-8-9-ubuntu-16-04-linux-mint-18/>
 - `sudo add-apt-repository ppa:webupd8team/java`
 - `sudo apt update; sudo apt install oracle-java8-installer`
 - `sudo apt install oracle-java8-set-default`
- To install git: `sudo apt-get install git`
- To install docker: <https://docs.docker.com/engine/installation/>
 - also, if you don't want to keep on using sudo for every docker-related command:
<http://askubuntu.com/a/739861>
- To install docker compose: <https://github.com/docker/compose/releases>

Step 1. Fork the project

- Our github is here: <https://github.com/cpp-css>
- The backend repository is here:
<https://github.com/cpp-css/cpp-parking-backend>
- Please **Fork** the repository:
 - click the fork button at the top right
 - forking an open source project creates a copy of a repository under your account
 - this lets you make modifications to your version of the code, without directly affecting the upstream (original) repository
- you can merge your changes back upstream by **pull requesting**

Backend server that synchronizes all parking state Edit

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Branch: master [New pull request](#) [Create new file](#) [Upload files](#) [Find file](#) [Clone or download](#)

bmzhao committed on GitHub Merge pull request #3 from cpp-css/refactor-api ...			Latest commit 5912e91 29 days ago
app	major update to api, documentation, connection bugfix	29 days ago	
bin	init, internal plumbing working	a month ago	
conf	major update to api, documentation, connection bugfix	29 days ago	
libexec	init, internal plumbing working	a month ago	
project	init, internal plumbing working	a month ago	
public	init, internal plumbing working	a month ago	
readmeImages	added diagrams to readme	a month ago	
test	init, internal plumbing working	a month ago	
.gitignore	init, internal plumbing working	a month ago	
Dockerfile	works in docker-compose, fixed jsonmessage bug	a month ago	
LICENSE	init, internal plumbing working	a month ago	
Makefile	works in docker-compose, fixed jsonmessage bug	a month ago	
Readme.md	major update to api, documentation, connection bugfix	29 days ago	
build.sbt	init, internal plumbing working	a month ago	
docker-compose.yml	works in docker-compose, fixed jsonmessage bug	a month ago	

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Branch: master

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This branch is even with cpp-css:master.

Pull request

Compare



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Step 2. Clone the Project

- Copy the URL to your clipboard, then open a terminal in Linux or OSX (or either git-bash or Bash for windows on Windows)
- `git clone <paste url here w/o greater than or less than signs>`
 - eg: `git clone https://github.com/cpp-css/cpp-parking-backend.git`
 - except don't copy and paste the above command's url because it's not your fork!
- the url is different for each person, because it's now a repo associated w/your github account

If you want to run the entire project:

- execute “make run” in the directory you just cloned
- this will use docker-compose to run 2 docker containers, one for the backend server, and one for redis
- to check if everything works, go to your browser, and check localhost:9000/lots
 - you should see some json data
 - to test out functionality, try executing: `curl --header "Content-type: application/json" --request POST --data '{"lot": "A", "diff": 20}' http://localhost:9000/lots`
 - then refresh the page; you should see lot A's occupancy increase

If you want to actively develop on the backend:

- execute: “bin/activator compile” from the project root
- this will download all of the libraries needed to run the project
 - the very first time, this will take a long time, maybe 10-20 minutes
 - afterwards, it will be much quicker
- change the redis.host field in application.conf from “redis” to “localhost”
- run redis on your machine with: “docker run --rm -p 6379:6379 redis redis-server --notify-keyspace-events AKE”
- then execute “bin/activator run”, and check your browser at localhost:9000/lots

<https://pointful.github.io/docker-intro/#/>