

Design Patterns

1. **Abstract Factory** – Different user types (Administrator, Representative, User) are implemented via factory classes. The factory classes implement the AbstractFactory interface.
2. **Singleton** - The factories are implemented with single instances (static variable of the instance)
3. **Adapter** – Database adapter interacts with the back end data in the files. Also handles requests.
4. **Flyweight** – Used in our factories. Uses a hash map that stores references to users that have already been created. Returns the reference if the user exists, otherwise it makes a new user.
5. **MVC (Model View Controller)** - Our model represents the user objects that hold information about the various users. Our view is represented through swing windows displaying the visualization for each of the models of the application. Our controllers interact with both the view and model. The controller listens for button clicks and updates the view accordingly.
6. **Command** - GUI Toolkits (Java Swing – interface Action, method actionPerformed (~Execute))
7. **State** – Each car object has various states as active, reserved, rented. If the car is active, it will be displayed in the main menu view, otherwise if it is reserved/rented, it will not be available to view.

Git Analysis

Software Engineering 1 Group Project

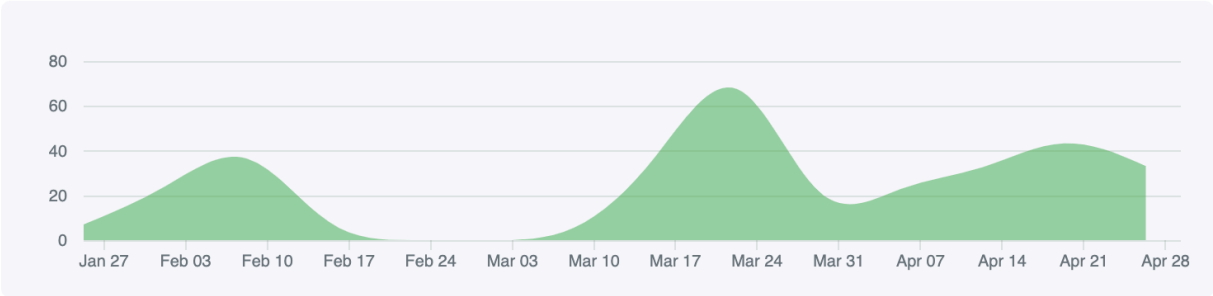
495 commits

4 branches

0 releases

1 environment

6 contributors



AndrewC0128 #1

195 commits 13,336 ++ 7,600 --

AndrewC0128 is the most active contributor. Their commit activity is concentrated in mid-March and late April, with a peak of approximately 40 commits per day in mid-March.

maggie-burton #2

46 commits 452 ++ 185 --

maggie-burton's activity is primarily in late March, with a peak of about 20 commits per day around March 24.

mdu2017 #3

42 commits 57,299 ++ 1,265 --

mdu2017 has a very high number of commits (57,299) but with low frequency, showing small peaks around February 10 and March 10.

baylorSailor #4

31 commits 286 ++ 187 --

baylorSailor's activity is spread out with low frequency, showing small peaks around February 10 and March 10.

Wolf1200 #5

25 commits 1,830 ++ 1,556 --

Wolf1200's activity is spread out with low frequency, showing small peaks around February 10 and March 10.

Drumshadow #6

5 commits 3 ++ 2 --

Drumshadow has the lowest activity, with only 5 commits spread across the period.

Software Engineering 1 Group Project

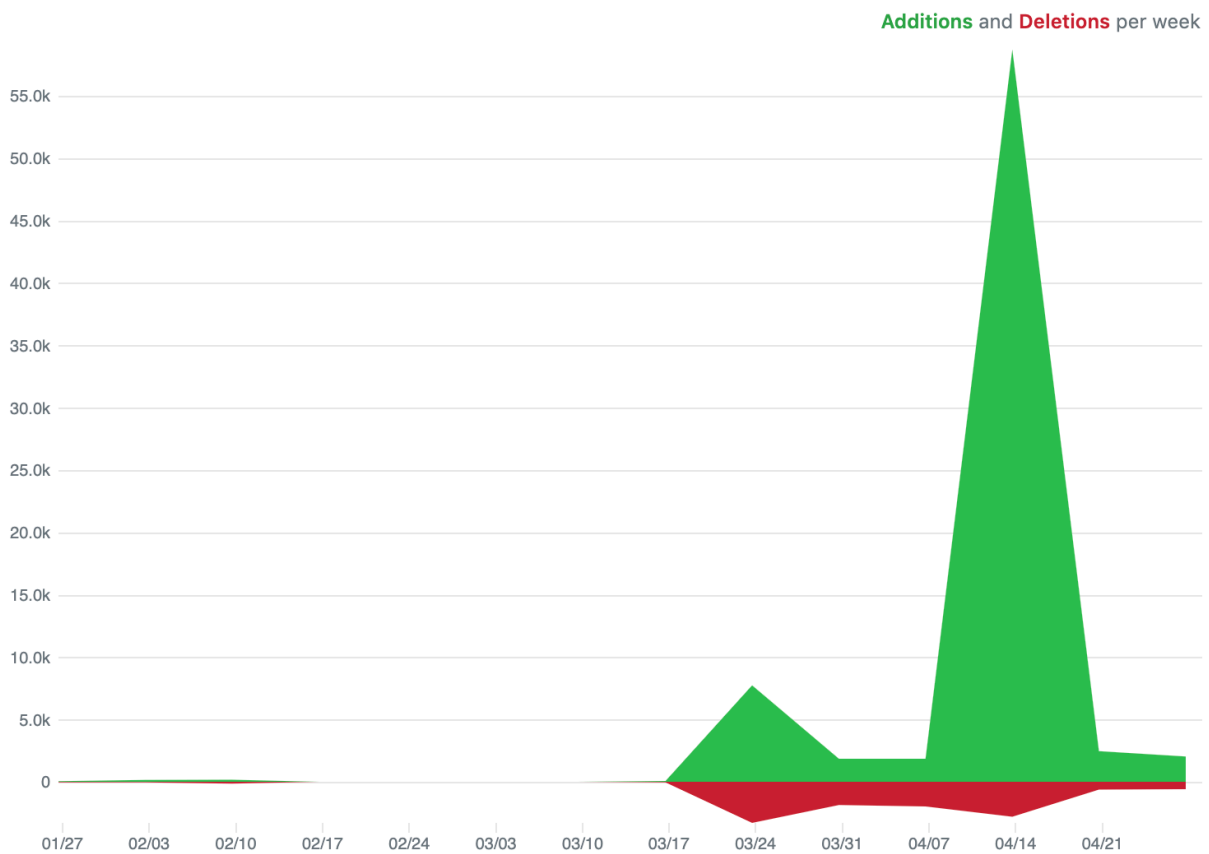
495 commits

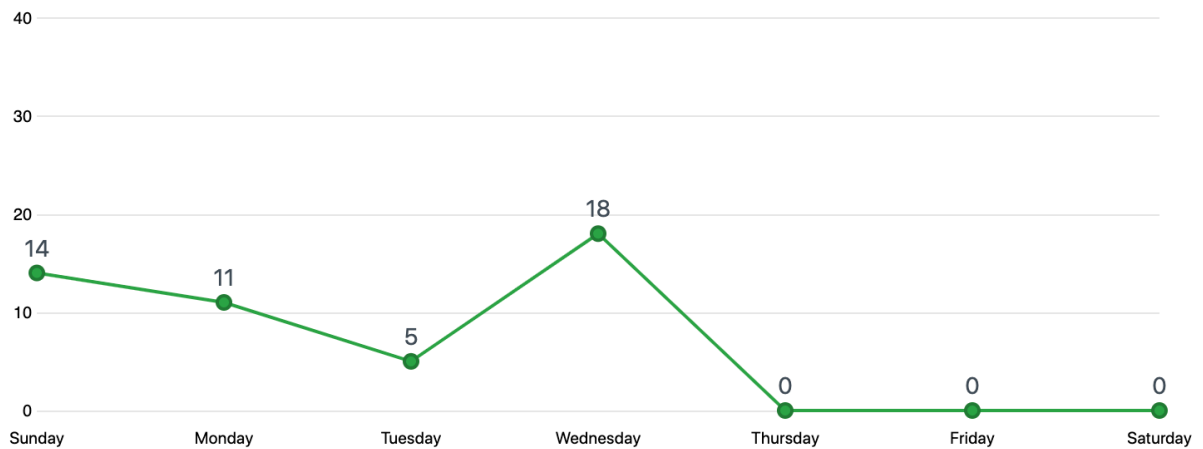
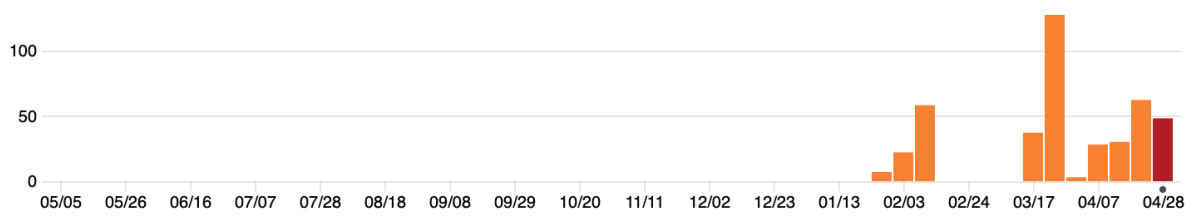
4 branches

0 releases

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April 1, 2019 – May 1, 2019

Period: 1 month ▾

Overview

1 Active Pull Request

15 Active Issues

1

Merged Pull Request

0

Proposed Pull Requests

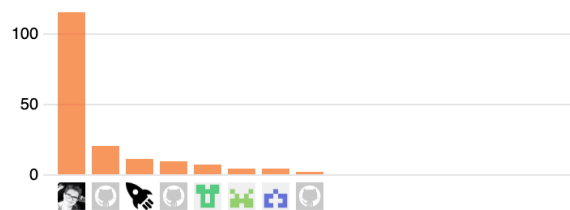
13

Closed Issues

2

New Issues

Excluding merges, **8 authors** have pushed **171 commits** to master and **172 commits** to all branches. On master, **187 files** have changed and there have been **60,795 additions** and **1,721 deletions**.



FindBugs-IDEA: found 0 bugs in 0 class

using FindBugs-IDEA 1.0.1 with Findbugs version 3.0.1

CurrentApp[CurrentApp]**Compile Output Path (IDEA)**

/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/src/main/java
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/src/main/resources
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/src/test/java

Sources Dir List (3)

/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/src/main/java
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/src/main/resources
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/src/test/java

Analyzed Classes List (31)

/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/target/classes/models/CarModel.c
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/target/classes/models/ActiveRenta
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/target/classes/models/HistoryMod
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/target/classes/models/UserModel.
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/target/classes/models/Administrat
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/target/classes/models/EditUsersTa
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/target/classes/adapters/Database.
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/target/classes/factories/Administra
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/target/classes/factories/Represent
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/target/classes/factories/AbstractUs
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/target/classes/factories/UserFactor
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/target/classes/main/CAR.class
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/target/classes/controllers/MainMer
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/target/classes/controllers/EditUser
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/target/classes/controllers/MainMer
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/target/classes/controllers/Accountl
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/target/classes/controllers/MainMer
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/target/classes/controllers/Accountl
/Users/matt/Desktop/Code/CSI-3471/Project/C.A.R./CurrentApp/target/classes/controllers/HelpCon

Close

Point Redistribution(Out of 100)

Maggie Burton – 16.6667

Weston Straw - 16.6667

Andrew Case - 16.6667

Matthew Darby - 16.6667

Stevie Damrel - 16.6667

Mark Du - 16.6667

Iteration 2 Timecards

Name	Time Spent
Andrew Case	85h 15m
Matthew Darby	36h 33m
Mark Du	42h 31m
Maggie Burton	31h 45m
Stevie Damrel	31h 30m
Weston Straw	43h 01m