Title:

Hooli XYZ

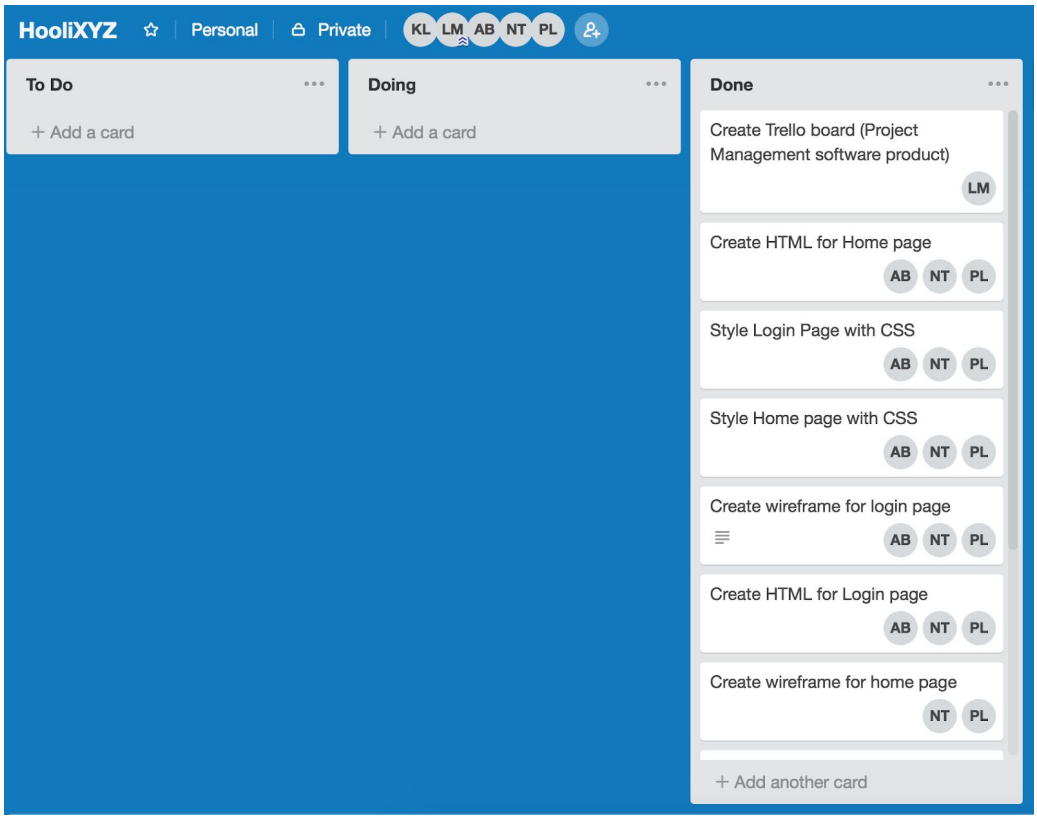
Group Members:

Ksenia Lepikhina, Peter Lindee, Andres Barrera, Noel Taterway, Wade Myers

Project Tracker:

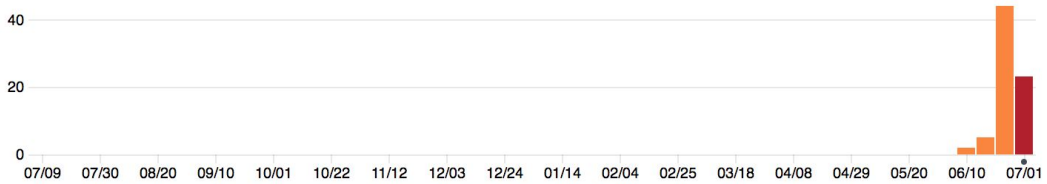
Our team used **Trello** for project tracking. Below is our **link** to your Project Tracker as well as a **screenshot** of Trello.

https://trello.com/b/0YWT2irF/hoolixyz



The screenshot demonstrates that we completed each one of the tasks throughout the project. One thing our team could have done better, is add things to the ToDo list when things broke. We didn't make great use of this tool, however the benefit of Trello in a large production project is easy to identify. It definitely makes progress easy to track. Trello could be improved with the inclusion of a calendar and a scheduling tool.

Our team also used **Github** for project tracking. The **link** to the repository is available in the Version Control System section. The **screenshot** is below.



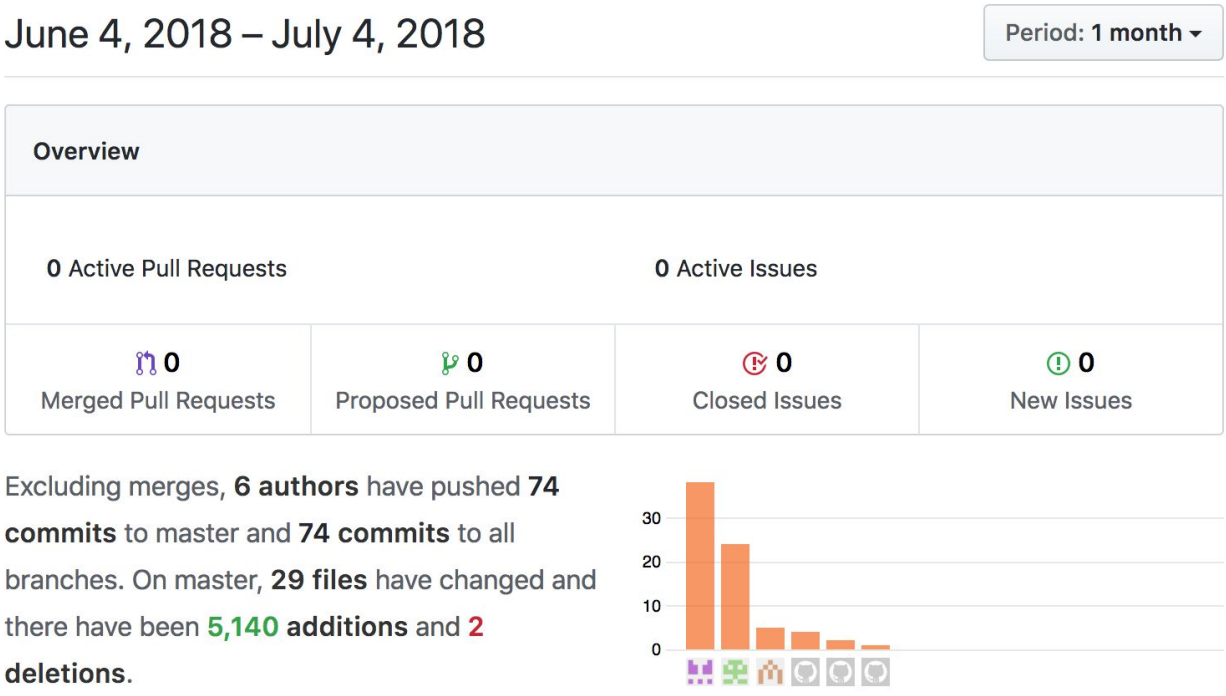
The above graph does not give us much information due to the fact that we only had four weeks of development to complete this project. However, we can see that our contributions (commits) peaked around last week (06/24/2018-07/01/2018). From this graph we can conclude that Github was an effective tool for project management. One thing our group could have done better is create branches and practice merging them into the master branch. Instead, we ended up stepping on each others toes every once in a while. For the most part, even without branching, we still found this tool effective in sharing our work and completing this project.

Version Control System:

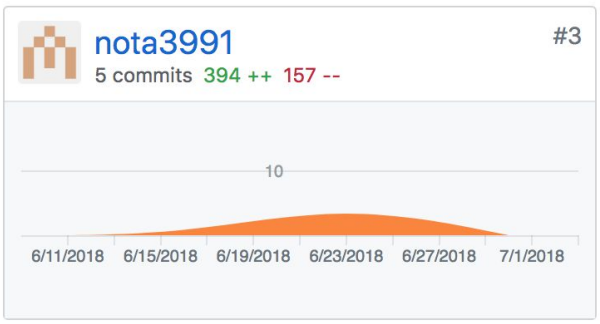
The **link** to the Hooli XYZ Github repository is below.

https://github.com/klepikhina/Hooli_XYZ

Screenshot of Contributions Throughout the Semester From Github



The purple icon is Ksenia Lepikhina. The green icon is Wade Myers. The three grey icons are Peter Lindee who pair programmed with Andres Barrera. The orange icon is Noel Taterway.



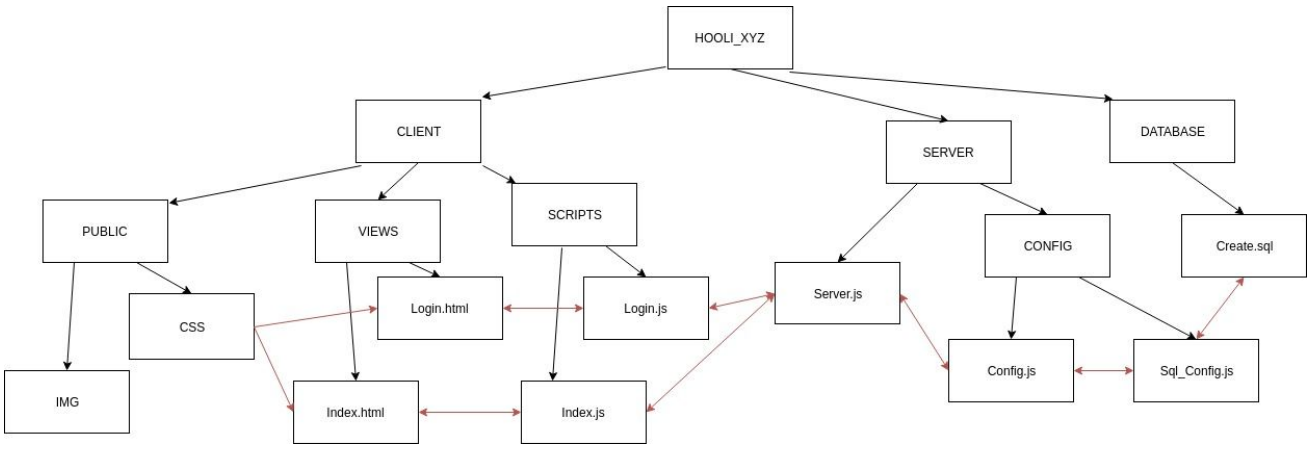
The above graphs demonstrate the number of commits per individual. Peter and Andres did pair programming and had some trouble with commits. However, their work is present (HTML/CSS). It is unclear why they do not show up in the above chart.

Deployment

Before deploying, a user needs to have an instance of MySQL running, node and npm installed and updated, and have access to a web browser.

In order to deploy the app, a user needs to create a new directory and clone the Hooli_XYZ repository. To run the project, a user must run the command “npm install” (if npm is not installed), “npm run build” (and enter their DB password when prompted) and then “npm start”. The first command installs npm. The second command builds the database. The third command starts the server and it begins running on localhost:8001. The user must go to a browser and navigate to localhost:8001 where the app will be served. We chose port 8001 because it is a high level port that is most likely not running anything else.

Repo organization/structure



In the above diagram, we lay out the repo organization. The black arrows represent the project folder structure. The Front-End (client), Back-End (server) and Database are completely separated to maintain the integrity of the Web App. The red arrows show lines of communication between the files. The view pages pull information from the public folders, the scripts send information between the view pages and the server, and the server sends information to the database and back to the scripts. This diagram does not include some included files like the node packages and the package.json because those are node specific and not necessarily part of this application's architecture.

How to Build

1. Clone the Repository using "git clone https://github.com/klepikhina/Hooli_XYZ.git"
2. Go to config.js in the server file and update your database information
3. Install the Node Modules and build the app using "npm run build"
    a. Make sure your node/npm installation and mysql installation are up to date
    b. When prompted, enter your mysql root password, this will set up a new database called HooliXYZ and destroy any previous instance of the database

How to Run

1. Start the application with "npm run start" (after building)
2. The application should be running on "http://localhost:8001"
3. Explore the different pages with the url extensions: "/signUp", "/login", and "/upload"

How to Run Tests

The tests from this app are run with Mocha and executed within the test folder. To add a new test, navigate to the test folder and add your test to tests.js. To run the tests, make sure the server is running and in a separate terminal (in the project directory) run: "npm run test".

Continuous Integration

Though Hooli XYZ would have liked to do continuous integration, we simply did not have time to implement it. Ideally, given more than three weeks, we absolutely would have implemented it.

Group Collaboration

Due to the time constraint with the accelerated course, teamwork was essential in completing the sprints and integrating each individual portion. Tools such as Trello and Slack helped Hooli XYZ stay on track and illustrated where certain areas needed work. However, as with any group project, we encountered several roadblocks where our ability to collaborate as a team was important in tackling an issue. One of the biggest roadblocks we encountered was integrating everything. While our team had great individual contributions, we were tested the most when putting everything together. Doing individual work such as building a login page or the database or the server was hard enough especially for team members just learning the software development tools. However, through the project methodologies taught in this course, we were able to turn our original ideas into a concrete app that with further work, could one day be a useful product used by many. One of the best takeaways we learned as a group is that large and daunting projects can be completed with the determination and effort from a small group such as Hooli XYZ.