

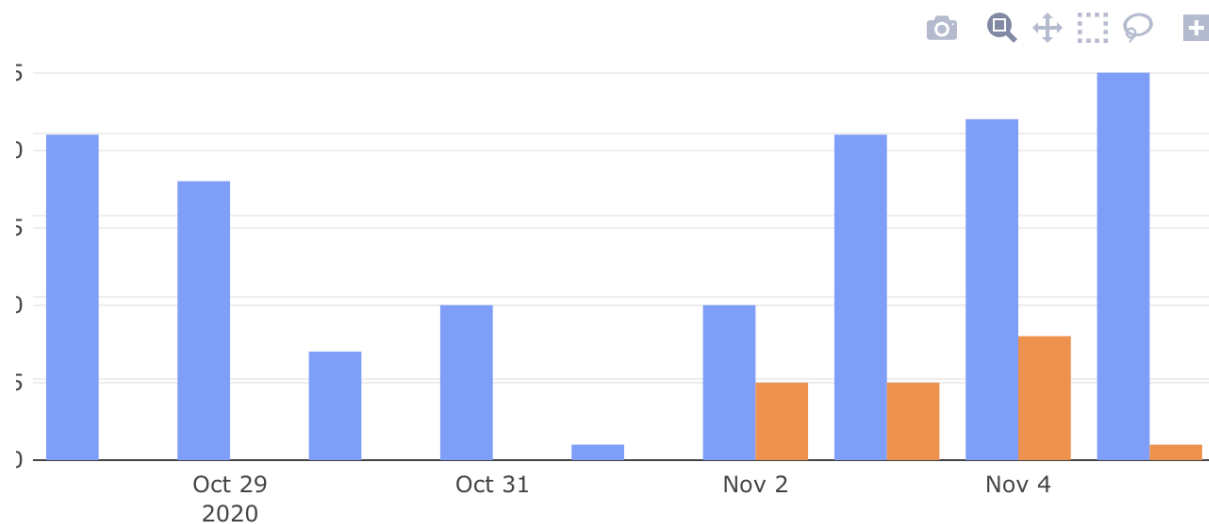
## Task

Create a whatsapp chat analyzer tool

## Flow

- Export a group chat from whatsapp
- Parse the file to extract the following information and create a day wise graph for the same for last one week:
  - a. Number of users joined each day (New users)
  - b. Number of users who sent messages each day (Active users)
- Also extract a list of users who were:
  - a. Active for 4 days in last 7 days

## Sample graph



- **X-axis** Last 7 days
- **Y-axis**
  - Blue bar - Number of users messaging each day
  - Orange bar - Number of users joining each day

## Sample data

<https://www.dropbox.com/s/q366szgbhewizgr/WhatsApp%20Chat%20with%20HanHangul%20Events.txt?dl=0>

## Evaluation Criteria

- Feature completeness
- No user apparent bugs (crashes, error dialog, broken UI, corrupted data, bad links, etc.)
- No other bugs (memory leaks, console errors, faulty logic, invalid HTML or malformed JSON, etc)
- Architecture, patterns and original code design
- Efficiency
- Code documentation
- Organization
- Code formatting
- Error and exception handling
- Performance and scalability
- Maintainability
- Usability
- Time to complete your work
- Effective use of third party libraries
- UI design aesthetics

## Notes

- This exercise is a timed **3-hour** exercise
- Style the elements as you see fit.
- No need to worry about browser compatibility. If it works in the latest Chrome use it!
- Feel free to use any preprocessors for your CSS
- Please don't use any CSS frameworks like Bootstrap. We want to see how you solve problems.
- Spend 15-20 mins researching and planning on how you want to approach the problem. After this time, you should have identified how to build front-end and backend, what libraries to use.
- Please do not upload the code in a public repo on GitHub

## Bonus Points

- Utilize ES6
- Utilizing React/Angular
- Utilizing python or python related framework for backend development