

Senior Frontend Engineer Hack Session (Commit Log)

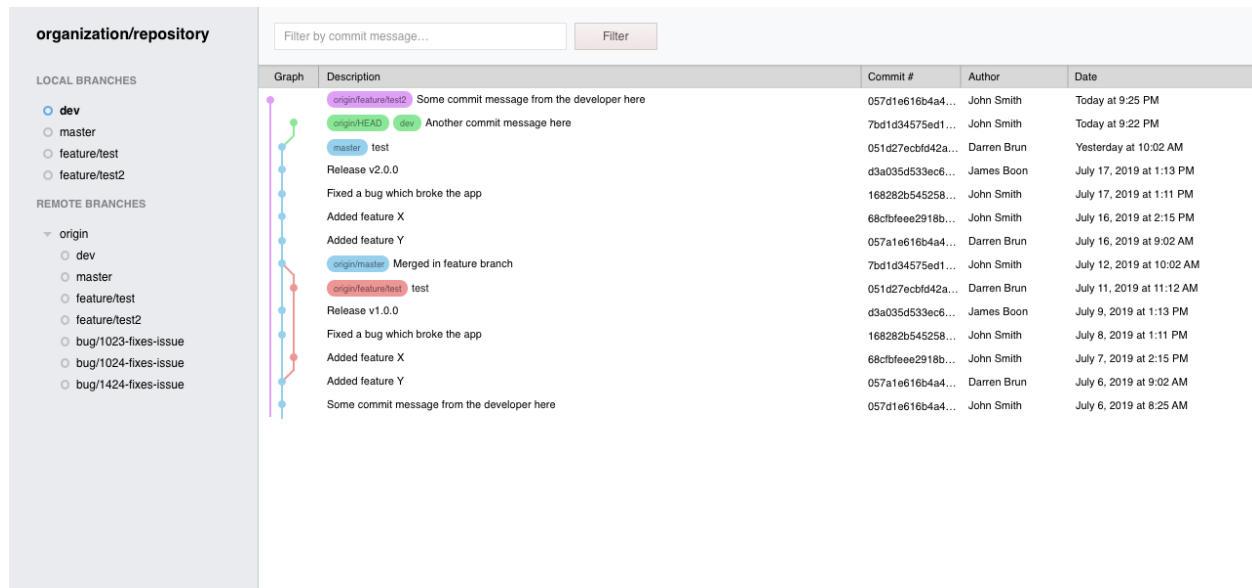
Overview

For this hack session, your task will be to build a web application screen that provides a visual GUI for software engineers who want to review the commit log for a given Git repository. Our design team has already created a design specification for this feature, and you can assume a backend engineer will build an API that will serve the necessary data. However, we need your help to build the frontend for this feature. To help get you started, we have setup a repository with a basic [create-react-app](#) setup that includes the base layout and dataset for this assignment.

Requirements

- This will be a public web application. Steps should be taken to make sure it works in all modern web browsers, and at various screen resolutions.
- The app should follow the design guidelines below as closely as possible.
- You are free to use any technologies or third-party libraries you want. Talk about your choices and decisions.
- You do NOT need to have your application connect to a real Git repository for its data. We will be simulating the commit log messages, branch names, authors, and other data. Focus on building the UI only. Assume there will be some API endpoint that will provide the necessary data.
- Most of the application is static with the exception of the filter toolbar, which should allow the user to filter the visible commit history items based on what the user enters into the input field.
- You might have questions about some areas of this assignment. This is expected. Please ask us any questions you have along the way and we will assist.

Design Guidelines



The screen contains three sections:

1. A left-hand sidebar which allows you to see a list of local and remote Git branches, as well as the name & organization of your repository. This area does not need to be interactive.
2. A top-head toolbar which contains a filter input and button which would allow a user to filter the commit history by a text string.
3. A commit table which shows a list of Git commits for that project with their description, commit hash number, author and date. A graph component shows a visual representation of the commits and branches in the project.

When a user types text into the filter input, it should immediately show the filtered results and hide the graph header and content, like this:

organization/repository

Release

Filter

| | Description | Commit # | Author | Date |
|--|----------------|------------------|------------|--------------------------|
| | Release v2.0.0 | d3a035d533ec6... | James Boon | July 17, 2019 at 1:13 PM |
| | Release v1.0.0 | d3a035d533ec6... | James Boon | July 9, 2019 at 1:13 PM |

LOCAL BRANCHES

dev

master

feature/test

feature/test2

REMOTE BRANCHES

origin

dev

master

feature/test

feature/test2

bug/1023-fixes-issue

bug/1024-fixes-issue

bug/1424-fixes-issue

When the width of the browser screen is less than 800 pixels, the sidebar should disappear from view, like this:



Note: All of the designs above are provided to you via Figma as well. Visit [this link](#) and create a Figma account (if you don't already have one). After you've logged in, you should have full visibility of the design assets. This will allow you to inspect sizes, colors and positions of all elements.

Hack Session Expectations

- As you work through the assignment, please communicate your decisions. We're looking to understand your reasoning behind your technical choices and architectural design.
- You will have about 2 hours to work on the assignment. You are allowed to start coding prior to the hack session day. Bring whatever assets you've already started on with you.

Evaluation

You will be judged on:

- Completeness of the requirements and design specifications
- Communication and collaboration with the team
- Support for desktop and mobile browsers
- Overall code quality and clarity

These instructions do not specify every possible detail you should take into consideration. This is done intentionally to test your ability to analyze the problem and come up with a creative solution. Thoroughness and attention to detail are two of the most important qualities for this role.