

Introduction

Being in the banking industry, an audit trail to anything that we do in an application is super critical. We have an application called Mission Control Center (MCC) that handles the configurations of other applications. The configurations are mainly classified into two - Metadata and technical data. An example of metadata is the name of the application, the owner of application and configuration manager of the application. Technical data is mainly a set of roles and a set of permissions associated with the role.

MCC provides an option to update both technical and metadata from time to time that usually goes through an approval process. These approved updates need to be versioned. Any user should be able to see all the versions of configuration of all applications.

Problem

Develop an application, preferably with a ReactJS Frontend, that

1. Given an update to a configuration of an application, stores a version of the same in the database.
2. Given an application, a user can see all the changes to configuration that happened to the application.

Things to ponder

1. How will you efficiently store the versions? Will you store the whole instance or just delta? Why?
2. What parts will you test? How? Why?

What we look for

1. System design
2. Git commits and messages
3. Modularity and Separation of concerns
4. Testability