**Complaint form using Form.io**

**Problem statement and analysis**

Single page application is robust, as most of the resources like HTMl, CSS, and other scripts are loaded once throughout the lifespan of the application. It sends only one request to the server, loads all the data that it needs and can respond even offline.

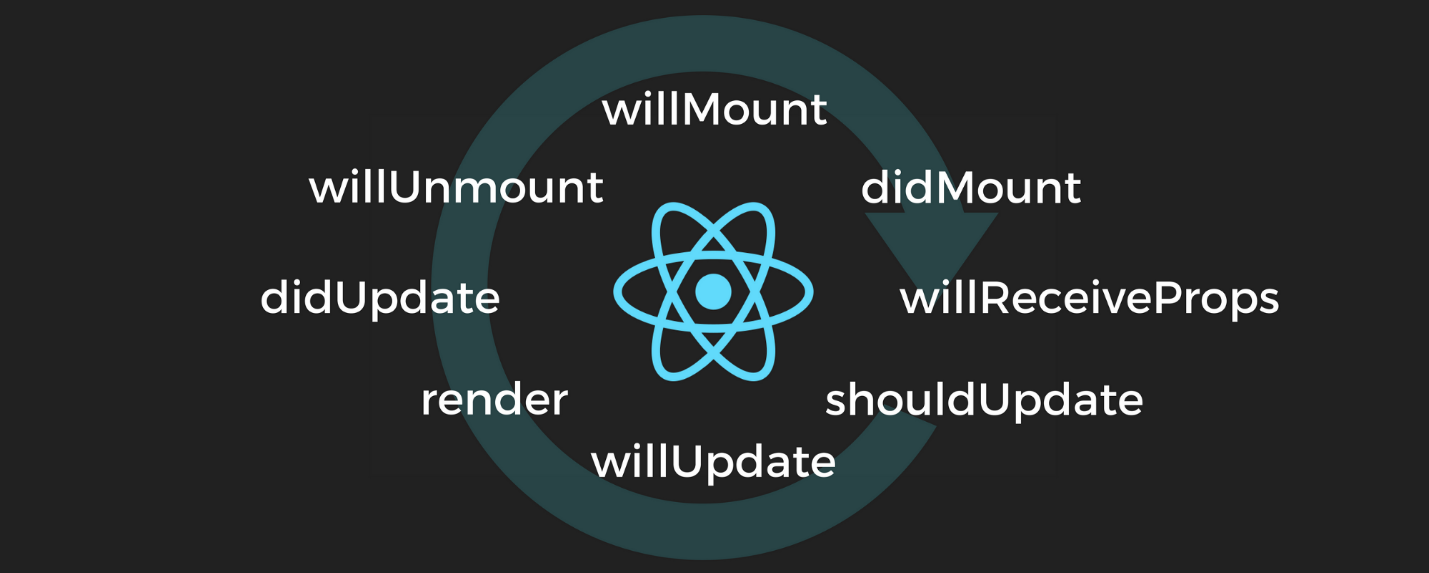
Enterprise applications must contain various types of forms (complaint form, registration form, survey form). Form.io is the best and robust solution to speed up the development process.

In this article we are going to build a single page application in **React.js** using Form.io SDk. **Form.io** is a from and data management platform which also act as a REST API platform. However, we are going to build a form suing Form.io which offers rich drag and drop facility to the user to generate production ready forms. As form is ready, the next step will be to integrate it into our application. We will enable the user to login through his/her Facebook or Google credentials.

**Architectural and design patterns**

In this application we will used component based architecture which is mainly concerned with the idea of separation. A component is a small feature that makes up the piece of user interface.   
Components have their own structure and life cycle which allows developers to build a UI with many different moving parts.

Here is the visual illustration of a React component life cycle.



React.js uses the DOM diffing algorithm due to which it is extremely fast, memory efficient and quick to respond.

**Strength of the application**

There are certain factors that describe the strength of this application.

* It’s a single page application built in Reactjs which reduces the loading and responding time of the application.
* Form.io is used in the application which is a powerful tool to manage and store your form data.
* We have used Facebook and Google components which are natively built in Reactjs.
* We have used local Storage of the browser to store the basic information of the user.
* User have privilege to login with their own Facebook or Google credentials.

**Weaknesses of the application**

* There is no session handling in this application.

**Improvements**

* We should have a sign up and sign in feature for our application in case if user does not want to login through his Facebook or Google credentials.
* There should be session handling if user is away after he logged in.