**Description of Tools, frameworks and Programming Language :**

1. **Back end :**

Programming Language :

Java is used to write the web service.

Framework :

Jersey-2.8 is used to create web service to retrieve the objects, change their colors and update colors.

Libraries:

JSON – Json objects are used to send and back data to and fro UI and back end.

1. **Frond end :**

3 columns are rendered red, blue and green initially to retrieve all the objects in the intial colos.

**Html, css** is used to render the basic UI.

**jQuery sortabl**e Is used to build the drag and drop structure of the objects into respective columns.

After every drag and drop, **ajax** is called, to update colors at the backend without page refresh.

This call is bound in ‘receive’ function of jQuery sortable, so that it calls ajax when new object is received in the columns.

1. **Packaging application:**

Maven is used to bundle the web app and package the application into war file.

1. **Flow :**
2. Initially the “getdata” the method is called document.ready function which accesses the endpoint ‘getAll' of web service.
3. To update the changed color, Ajax call in the receive function of jQuery sortable calls the endpoint ‘updateColor’ of web service.