**Job Portal**

Job Portal is an application where different people can login based on the need, such as HR team can login as recruiter and can search for candidates based on various filters. Candidates can login into the portal for searching the job based on their details. In the same application based on the login role application behavior will get differed.

Apart from this candidate can directly search jobs in the field with any of the skills from the text field in the content page. Recruiter can even perform candidates search directly.

**Implementation:**

To design the specific application incorporated both Creational and Behavioral design pattern.

1. **Factory Design Pattern:** For this In Factory pattern, we create object without exposing the creation logic to the client and refer to newly created object using a common interface. Here in my application I had different type of logins. To handle Home screen changes for those screens used this pattern implementation.
2. **Singleton Design Pattern:** Considering the principal that the singleton pattern is a design pattern that restricts the instantiation of a class to one object. Implemented Single Ton class for login so that multiple instances can’t be created for this login and multiple logins also won’t happen by the way of my implementation.
3. **Builder Design Pattern:** Mainly aim is to “Separate the construction of a complex object from its representation so that the same construction process can create different representations.” It is used to construct a complex object step by step and the final step will return the object. Here in my application for the Job search by the candidate implemented this pattern. So that can search with any of the inputs but all not mandatory.
4. **State Pattern:** State design pattern is used when an Object changes its behavior based on its internal state. If we have to change behavior of an object based on its state. So here to a particular profile if that profile is contacted or shortlisted by another recruiter it will be in blocked state. After changing the state which means released by the recruiter or made open by the candidate then it will be moved to Available state.

Integration of these pattern implementation is completed successfully and able to see the result as expected with various set of combinations