**4.0 Functional Model and Description**

**Description of major software functions along with UML Use Case, sequence, and communication diagrams.**

**4.1 Description for Function n - A detailed description of each software function is presented by completing a use case template. Section 4.1 is repeated for each of n functions.**

**4.1.1 Use case name - Unique name for function is defined.**

**4.1.1.1 ApplicantSignUp**

**4.1.1.2 ApplicantLogin**

**4.1.1.3 ApplicantProfileManagement**

**4.1.1.4 ApplicantJobSearch**

**4.1.1.5 ApplicantJobApplication**

**4.1.1.6 RecruiterLogin**

**4.1.1.7 RecruiterPositionView**

**4.1.1.8**

**4.1.2 Actors- Entities that produce or consume the information associated with the function.**

**4.1.2.1 Microsoft Azure DB Service,**

**4.1.2.2 Persons(Job Seekers/Recruiters)**

**4.1.2.3 Azure AD service**

**4.1.3 Preconditions - A detailed description of the input and output interfaces for the function is presented.**

**4.1.4 Triggers - A detailed description of when the function will be utilized by the system.**

**4.1.5 Scenario Description - Describe the flow of events needed to accomplish the use case.**

**4.1.6 Post Conditions -Any design constraints that will impact the subsystem are noted.**

**4.1.6 Exceptions - Describes how to the system should respond to unusual circumstances.**

**4.2 Software Interface Description**

**The software interface(s)to the outside world is(are) described.**

**4.2.1 External machine interfaces**

**Interfaces to other machines (computers or devices) are described.**

**4.2.2 External system interfaces**

**Interfaces to other systems, products or networks are described.**

**4.2.3 Human interface**

**An overview of any human interfaces to be designed for the software is presented.**

**4.3 Use Case Diagrams**

**The control flow for the system is presented with reference to Section 5.0 of this document.**

**4.4 Sequence Diagrams**

**Used to model the class interactions needed for the use cases.**

**4.5 Communication Diagrams**

**Used to model the message passing structure of the system functions.**