AED Project Definition Document

**1. Project name:**

Global Blood Supply and management Program

**2. Domain of the project:**

This is a project about blood donation and distribution. In this project, we try to build an ecosystem about blood donation and management work flow occurred in clinic, blood banks and blood distribution management centers.

**3. Description of the project:**

Nowadays informatization is becoming more and more important in medical area. Considering the blood supply system, as the need of blood is fluctuant and unforeseen, in many cases a blood bank which lacks a specific type of blood has to send requirement to other blood banks. In order to make this process faster and more convenient, we need to integrate data from different blood banks, implement a more efficient distribute function.

**4. Scope of the project:**

(1)Implement the system of blood supply and management.

(2) Build a model and implement the detail work flow of blood donation, use and management.

(3) Define the layers of blood management system and create an ecosystem. For example, in a specific city there is a blood bank connected with many blood clinics, and this blood bank is one part of the superior blood center at provincial level, and above that there is a national blood center.

(4) Donor and blood receiver’s personal health info track.

(5) The management function includes the test and the distribution of blood, like consider how long will it take for the blood shipping from one blood bank to another, method of shipping, etc.

(6) Provide information for manager of each level from the database of specific level in this ecosystem, and they can learn the conditions and send requirement to contact with other organizations.

(7) Output the well-developed report concerning some vital data on each level of this ecosystem.

**5. Conclusion:**

People in hospital organizations will benefit from this project, they would have a clear understanding about the entire inventory in each organization and make it easier to handle blood donation, transportation and supply.

People who in need of blood will also benefit from this project, as some patients need some blood while the local organization doesn’t have, taking advantage of this project, they would receive help from the ecosystem in time.