**Software Requirement Specification For**

CDC Dreams Program Management System

**1. Introduction**

**1.1Purpose**  
This software requirement specification document provides a detailed description of the CDC Dreams Program Management System for Baylor Uganda. It outlines the system's functionality, interfaces, and requirements.

**1.2Scope**  
The system aims to streamline the management and coordination of the CDC Dreams program, focusing on enrolment, event scheduling, participant progress tracking, educational material distribution, skills training, and generating reports.

**1.3 Definitions, Acronyms, and Abbreviations**

* AGYW: Adolescent Girls and Young Women
* HIV: Human Immunodeficiency Virus
* SRS: Software Requirement Specification
* UI: User Interface

### 2. Overall Description

**2.1ProductPerspective**  
The system is a web-based application designed to manage the CDC Dreams program. It will be built using PHP for the backend, HTML, CSS, and JavaScript for the frontend, and MySQL for the database.

**2.2 Product Features**

* **Enrolment Management:** Capture details like name, address, age group, HIV status, date of birth, village, and schooling status.
* **Event Scheduling:** Manage events with attributes like event type, learning outcomes, start date, and end date.
* **Participant Progress Tracking:** Track events and lessons attended, skills attained.
* **Educational Material Distribution:** Manage training materials and target audiences.
* **Skills Training:** Track skills training sessions and participants.
* **Reporting:** Generate comprehensive reports and dashboards.

**2.3 User Classes and Characteristics**

* **Administrators:** Manage enrolment, events, lessons, education material distribution and generate reports.

**2.4OperatingEnvironment**  
The system will run on modern web browsers (Chrome, Firefox, Safari) and be hosted on a server supporting PHP 7.4 and MySQL.

### 3. System Features

**3.1 Enrolment Management**

* **Description:** Capture and manage participant details.
* **Functional Requirements:**
  + FR1: The system shall allow administrators to add, update participant’s data.
  + FR2: The system shall validate participant data during enrolment.

**3.2 Event Scheduling**

* **Description:** Schedule and manage events.
* **Functional Requirements:**
  + FR3: The system shall allow administrators to create, update events.
  + FR4: The system shall display a calendar view of scheduled events.

**3.3 Participant Progress Tracking**

* **Description:** Track and assess participant progress.
* **Functional Requirements:**
  + FR5: The system shall record events and lessons attended by each participant.
  + FR6: The system shall generate progress reports for participants.

**3.4 Educational Material Distribution**

* **Description:** Manage distribution of educational materials.
* **Functional Requirements:**
  + FR7: The system shall allow mentors to upload and manage educational materials.
  + FR8: The system shall track the distribution of materials to participants.

**3.5 Skills Training**

* **Description:** Track skills training sessions.
* **Functional Requirements:**
  + FR9: The system shall record skills training sessions attended by participants.

**3.6 Reporting**

* **Description:** Generate reports and dashboards.
* **Functional Requirements:**
  + FR11: The system shall generate comprehensive reports on enrolment, events, progress, and skills training.
  + FR12: The system shall provide interactive dashboards for data visualization.

### 4. External Interface Requirements

**4.1 User Interfaces**

* **Login Page:** Provide fields for username and password with appropriate error messages.
* **Dashboard:** Display summaries of enrolment, events, and participant progress.
* **Forms:** Provide forms for enrolment, event scheduling, and progress tracking.

**4.2 Hardware Interfaces**

* The system will be hosted on a web server with standard hardware configurations.

**4.3 Software Interfaces**

* The system will interface with MySQL for database management.

**4.4 Communication Interfaces**

* The system will use HTTP/HTTPS protocols for client-server communication.

### 5. Other Non-functional Requirements

**5.1 Performance Requirements**

* The system should handle concurrent users efficiently and respond within acceptable time frames.

**5.2 Security Requirements**

* The system should ensure data security and user authentication.

**5.3 Software Quality Attributes**

* The system should be reliable, maintainable, and scalable.