**Requirement Document: Pi Attendance Management System**

**Introduction:**

The voice recognition system is focused on enhancing the capabilities of the teachers/instructors to take effective and efficient attendance in class. Our research has shown that manual attendance is time consuming in addition to having an impact on students grades as they miss classes if a loophole can be found to skip the class without attendance. Pi-Voice is based on a simple design with a user friendly interface.

**Purpose:** The objective here is to give ease of taking attendance, save time, reduce error while taking attendance which will imply more focus on topics inside the class.

**Stakeholders:** Academic Institutes

Users: Instructors

**Requirements Constraints:** limitations of time and budget

**Naming Conventions:** DataEntry, Domain, Database

**Relevant Facts:** The importance of this product in developing countries, it is simple and easy to use. Can be influenced to deploy to such classrooms with minimum cost and easy usability.

**Assumptions:** helpful for developing world

**System Model:**

Retrieval

Instructor

GUI Data

Display

GUI-Data Entry

Store into Database

Voice Store in DB

**Functionality**

The system will provide an interface with a functionality such as recording the student’s records, capturing voice commands, searching and verification of voice samples, and reporting on daily or weekly basis. The graphical interface must provide efficient functionalities to record and retrieve information as per the user request.

**Scope:** the product is a simple graphical user interface system. The system will provide functionalities to store and retrieve data through a database system connected to the system. The system will also provide reporting tools for the instructors. The overall goal here is to provide simplicity and ease of use to the users.

**Functional & Data:** the product will have multiple interfaces for recording and retrieving data. The second is connection to the database. It will also provide reporting option for the user.

**Non-Functional Requirements:**

1. The intended appearance is focused on simplest design pattern. The purpose here is to give easy access to instructors (specially in developing world with minimum computer knowledge) to easily use the product).
2. The intended operating requirement is Microsoft Windows platform.

**Open Issues:**

Below are open issues in the project.

1. Database connectivity
2. Reporting

**Things to do:**

1. Work on the connectivity of the database that will store the voice information along with other data.
2. Provide reporting structure. User can request for report.
3. Final testing

**Upcoming plan:**

1. Work on the open issues and make sure that product is ready for final touch.