Requirements Specifications

This document captures high level requirement specifications of the web-based college ERP system. This document will be reviewed and updated in incremental fashion to incorporate any feedback and comments implementations.

Following are the requirements for the ERP system. Based on the requirement specifications module/high level components will be designed.

## System should have ability to capture various types of courses.

## Students should be able to register against any course of the list.

## Fees is associated with each course.

## system should have ability to capture following course types and associated fees details. Following are the course types

* School
  + - Standard 1 - LKG
    - Standard 2 – UKG
    - 1st Standard
* ITI
  + - Steno
    - Electrician
    - Carpenter
    - Copa
* Computer courses
  + - DCA
    - PGDCA

## Capture the student details:

* 1. Personal. The information which is taken at registration time.
  2. Course information. Course information is taken during registration.

1. Fee structure.
   1. Every course has a fees structure and student is associated with fee during registration.
   2. Payment details are stored in database for each student.
   3. Every payment is recorded and can be used to generate reports in future.

### Summary of the fee credit/debit at the end of the day. A new report should be created and generated.

1. System should have scalability to include any new courses or should be configured so that any kind of course should be used.

Architectural details

**Technologies**

Open-source technologies to be used.

**UI Components**

1. Client side: Angular latest version for UI development
   1. HTML
   2. Javascript programming – typescript language

**Backend Service components**

1. Server side programming to be done in node.js

**Database**

1. MySQL: open source. Check feasibility of any NoSQL DB if possible.

**Source control mechanism**

1. Github to be used as source control mechanism.