Software Requirements Specification

Kalameno as a software product is divided to 2 main systems:

* Management System
* Website Frontend

The Management system is the inner-workings of the institution’s bureaucratic processes and an educational center for the users in the institution.

The Website Frontend acts as a layer on top of the Management system. It is intended to show a sleek frontend to old and prospective guests, introducing the institution, posting content and educational materials or news on their websites and emailing the users about any appropriate announcements.

Some general needs of the system:

* The website is not expected to have a large user base. The maximum user base will most likely range from 500 - 1000 at the maximum.
* The server should be available 24/7 however it is not critical.
* The system requires a solid public storage disk for storing multi-modal files.

# Management System

## Functional Requirements

* Hold records of students, teachers, classes, books, and other important entities and relate these entities together.
* For students:
  + See and manage their classes by having a class panel
  + Access course material
  + Pay for the class they are enrolled in
  + View their grade for the past, present, and future classes that they partake
* For teachers to be able to hold classes, have access to course materials, post homework submissions, post their own course materials, exam papers, etc.
  + See and manager their classes by having access to a class panel
  + Access predefined course material (book pdfs or CD files)
  + Being able to post extra materials or assignments
  + See currently enrolled students and manage their attendance
  + Post announcements
  + Grade students and provide their report card digitally
* For personnel to create students, teachers, introduce books, create and schedule classes, and view information regarding all entities of the institution.
* Record keeping and accounting matters of the institution.
  + Monitor student payments
  + Facilitate personnel and teacher payments for personnel’s with the appropriate role
  + Book payment records and amount of bought book orders

## Extra Requirements

* Passwords need to be hashed for extra security.
* General Security Options and DDos Protections
* Session management and expirations can be attempted for extra security.

## External Integration Requirements

In order to facilitate payments, either a new third-party payment service or an existing one needs to be integrated with the software architecture.

# Website Frontend

## Functional Requirements

* There can be authors that can post announcements, blogs or educational content so there needs to be an author panel
* Show a pleasing, responsive, and SEO-compliant frontend
* Register and Login form and authentication should occur on this layer.

## Extra Requirements

* The website’s default language is Persian, however an optional feature is an English version, so multi-language features also need to be considered.
* Users could view, set some blog posts as favorites, comment, or like pieces of content.