KSID website development with integrated online student management system

Introduction

The Kerala State Institute of Design (KSID) a unit of Kerala Academy for Skills Excellence (KASE) was established for the purpose of creating a vibrant design community in Kerala through synergistic partnership between artisan community, professional designers and general public. KSID conducts Post Graduate Diploma Programs in Product Design, Textile Design and Communication Design and Bachelor of Design Programs. KSID wants to redesign the existing website with higher content and develop an integrated online system for student management. An online student management system was proposed to improve the smooth functioning of the institute based on the requirements. The objective of the project is to develop an Integrated Online Students Management System. The portal will act as a platform to integrate student's admission process, semester fee payment, internal mark management, attendance marking and other activities such as no due application, lab request etc.

Existing system

The existing system lacks an integrated platform for student management and management information system. Preliminary examination is conducted on all India basis and studio test and personal interview are conducted by institute for admission process The rank list of students for admission is prepared by the institute after consolidating the marks of all the three phases of the examination. Similarly, internal mark recording and attendance marking is done in offline mode through appropriate registers. Semester fee is paid directly into the bank account. Similarly, miscellaneous application and lab request are processed in physical application format.

Scope of the Project

- Redesign KSID Webpage with high-resolution images and videos.
- Development of Integrated Online student management system.
- Hosting of the web application in the server space identification (SDC).
- Security testing of web application.
- Integration of Payment gateway.
- Integration of SMS gateway and Email Notification.
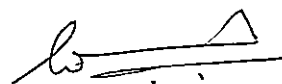- Training, handholding, and development of user manual.

Functional modules

Proposed web application will have following five functional modules. Each module implements a specific functionality and is interface with other modules. The modules communicate with each other to realize the total functionality. The decomposition in terms of major functional modules and data is as given below

- Registration & Application submission module
- Examination notification, Hall ticket generation & Rank list publishing module
- Admission module
- Semester fee payment module
- Attendance module
- Mark entry & Result publishing module
- No due application & Lab request module
- MIS/report module
- Admin Module
- Mobile application
- Integration with KASE

Tasks

- Redesign and development of KSID website.
- Development of Integrated Online Student Management System.
- Hosting of the web application in the server space.
- Internal Security testing of web application and providing technical support for carrying out third part security testing by CERT-In empanelled agency or by CERT-K.
- Integration of payment gateway.
- Integration of SMS gateway and Email Notification.
- Training and handholding to the users of the project within KSID.
- Procure SSL.
- Identification of server space for hosting the web application.
- Selection of payment gateway provider.
- Selection of SMS gateway.
- IT Login
- Service request

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