National Institute Of Technology

Calicut

**Department Of Computer Science and Engineering**



**Software Design Document**

**FACULTY ADVISORY SYSTEM**

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**TABLE OF CONTENTS**

1. Introduction
   1. Purpose
   2. Scope
   3. Definitions
   4. References
   5. Overview
2. Data Organization
   1. Entity Relationship Diagram
   2. Relational Database Design
3. Architectural Design
4. User Interface Design
5. Restrictions, Limitations and Constraints

# 1. Introduction

## 1.1 Purpose

The purpose of this document is to provide a detailed description of the design of a web based platform for simulating the faculty advisory system and automating registration.

The expected audience of this document is the developer of the system and any future contributors or modifiers.

## 1.2 Scope

Faculty Advisory System is intended to be a web based platform for simulating the faculty advisory system which allows faculty advisors to directly register students for various courses in the current semester iff the student has no library and hostel dues.

This system is designed to be a platform where faculty advisors can check whether a student has any library or hostel dues. If not, the faculty advisor can register the student for various courses. Moreover this system also allows faculty members to take attendance for courses they are instructing which is decided by an admin panel.

Students can check their library and hostel dues and the courses for which they are registered. They can also check their attendance for each and every course.

This system would be beneficial for students as it would save them from the paper work which is currently required for registration.

## 1.3 Definitions

|  |  |
| --- | --- |
| **Term** | **Definitions** |
| User | An entity that can log-into the system and execute his/her privileges |
| Admin | Privileged users of the system, who has permissions to modify the contents of the system, assign a faculty advisor for a student and to add/remove other admins |
| Admin Panel | The group of existing admins |
| Admin Page | A webpage that allows admins to login and execute their privileges |
| Course Page | A webpage displaying the courses for which a student has been registered |
| Dues Page | A webpage displaying the dues of a particular student |
| Test Type | T1, T2, Assignment or End-Semester Examinations |

## 1.4 References

* IEEE 1016. IEEE 1016-2009, titled IEEE Standard for Information Technology—Systems Design—Software Design Descriptions
* Software Design Description – Wikipedia

https://en.wikipedia.org/wiki/Software\_design\_description

## 1.5 Overview

The next chapter, the Data Organisation section, of this document gives an overview of how the application organises its data. It describes the design of the relational database followed by the application.

The third chapter, Architectural Design section gives an overview of the application’s architecture.

The fourth chapter, User Interface section briefly describes the user interfaces of the application. It specifies the design for both normal and admin users of the system.

The final chapter outlines the major restrictions, limitations and constraints of the system.

# 2 Data Organisation

The data stored for the application consists of a relational database storing textual information.

## 2.1 Entity Relationship Diagram

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Hostel Staff

**ENROLS\_FOR**

**ATTENDS**

**CHECK\_OUT**

**INSTRUCTS**

library\_rec

**ADVISE**

Faculty

Student

course

semester

**UPDATES**

Library Staff

Admin

users