

Course File Generator

Project(CS3099) Progress Report

Submitted by

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Under the Guidance Of

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Abstract

Keeping record of all events happening throughout the semester in any educational institution is very important. Our project is for NIT Calicut faculties who have to submit the course file at the end of each semester. In this file they need to include course details such as course plan number of student enrolled, mid semester question papers, their solution, marks obtained by the students and later on submitting these details to the department for the purpose of record keeping and future references'. Presently all these task are being done manually and hardcopies are submitted by faculties. We will try to reduce the manual effort by making it into an automated software which would inform the instructors prior to the deadline and provide them a simple but efficient and effective interface to perform these operations and ultimately reduce the time and hassle of the faculties.

The system has two users:-

- Admin
- Faculty

Admin main responsibility is to enter the schedule for the whole semester, add courses, and add faculty and assigning faculty to subjects at the beginning of the semester. Then as the semester goes, the faculty has to upload different files such as course plan, mid semester paper etc. at the end system will generate two files **Course File** and **PO Attainment File**. As an event approach, the faculty receives a system generated mail intimation stating what they have to upload a particular document. In the end of semester, for a particular course all the files uploaded merged into a single pdf file. In addition to time-efficiency, it reduces the manual efforts to generate course file and calculation of **PO Attainment**. It provides ease to the faculties as well as the admin. A well organised record of semester course file leads to proper management of data and overall efficiency.

Introduction

1. Motivation:

The main motivation behind working on this project is to use all the theoretical knowledge gathered and apply it to practical real world use and Automate the System for generating course file for the faculty of National Institute of Technology Calicut is the other part of motivations.

2. Problem Definition:

Our system is **Online Course File Generator** which is an online application, which takes the input in the form of uploaded files and perform some operation for **COs to POs Mapping** for **PO Attainment**, ultimately combines them all into one file and sends it further for evaluation

Literature survey

The following literary/web sources were consulted:

- Software Foundation, “PHP Documentation Release 7.x”.
- “MySQL 5.7 Reference Manual”, revision: 50757
- “Boot Strap 3.0 Reference Manual”

Requirements Specification

Functional Requirements

- Use Case 1: ADMIN
 - i. **Admin login:** Admin needs to login using his/her login credentials into the system.
 - ii. **Manage Course:** Admin needs to add courses to the database.
 - iii. **Manage Faculty:** Admin can add faculty to the database with faculty id and name.
 - iv. **Assign Faculty to Course:** Admin assign faculty to different course available.
 - v. **Assign Schedule:** He enters a sequence of events that will happen during the semester.
- Use Case : FACULTY
 - i. **Faculty login:** A faculty needs to login using his/her login credentials into the system.
 - ii. **Upload:** A faculty needs to upload the file corresponding to the events.
 - iii. **Generate File:** faculty will generate a course file after all uploads.
 - iv. **Generate PO Attainment File:** faculty will generate a PO Attainment file after all uploads.
 - v. **Edit profile:** Here the faculty need to update their information.
 - vi. **Download file:** Faculty can download the generated files and submit ti to the department.
 - vii. **View profile:** can view their details.

Non Functional Requirements

i. Operational and usability:

1. With proper internet connection the web application works fine on any web browser.
2. No extra knowledge or training is needed for using this web application, but should be familiar with web application.

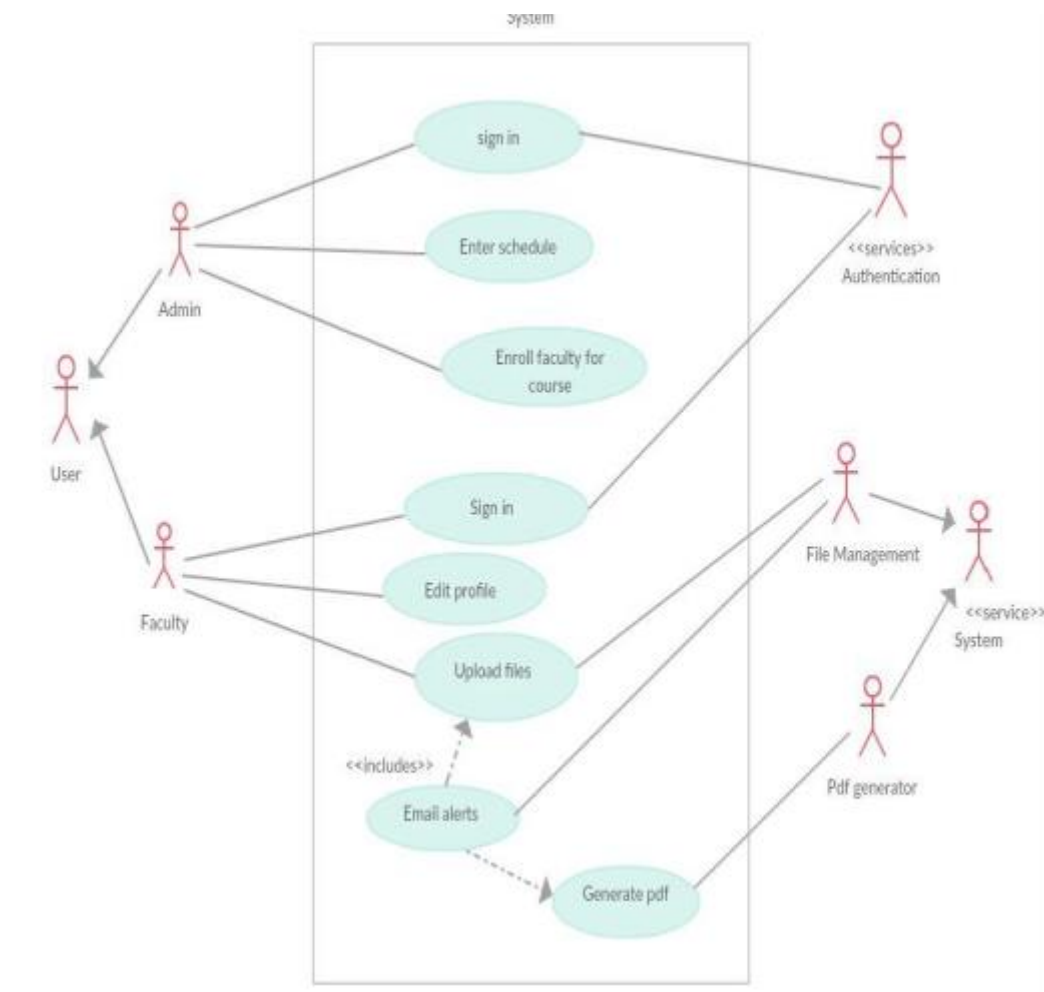
ii. Security

1. An authenticated user can only access the system.
2. Admin cannot access data of the faculty so it is secure.

Design And Implementation

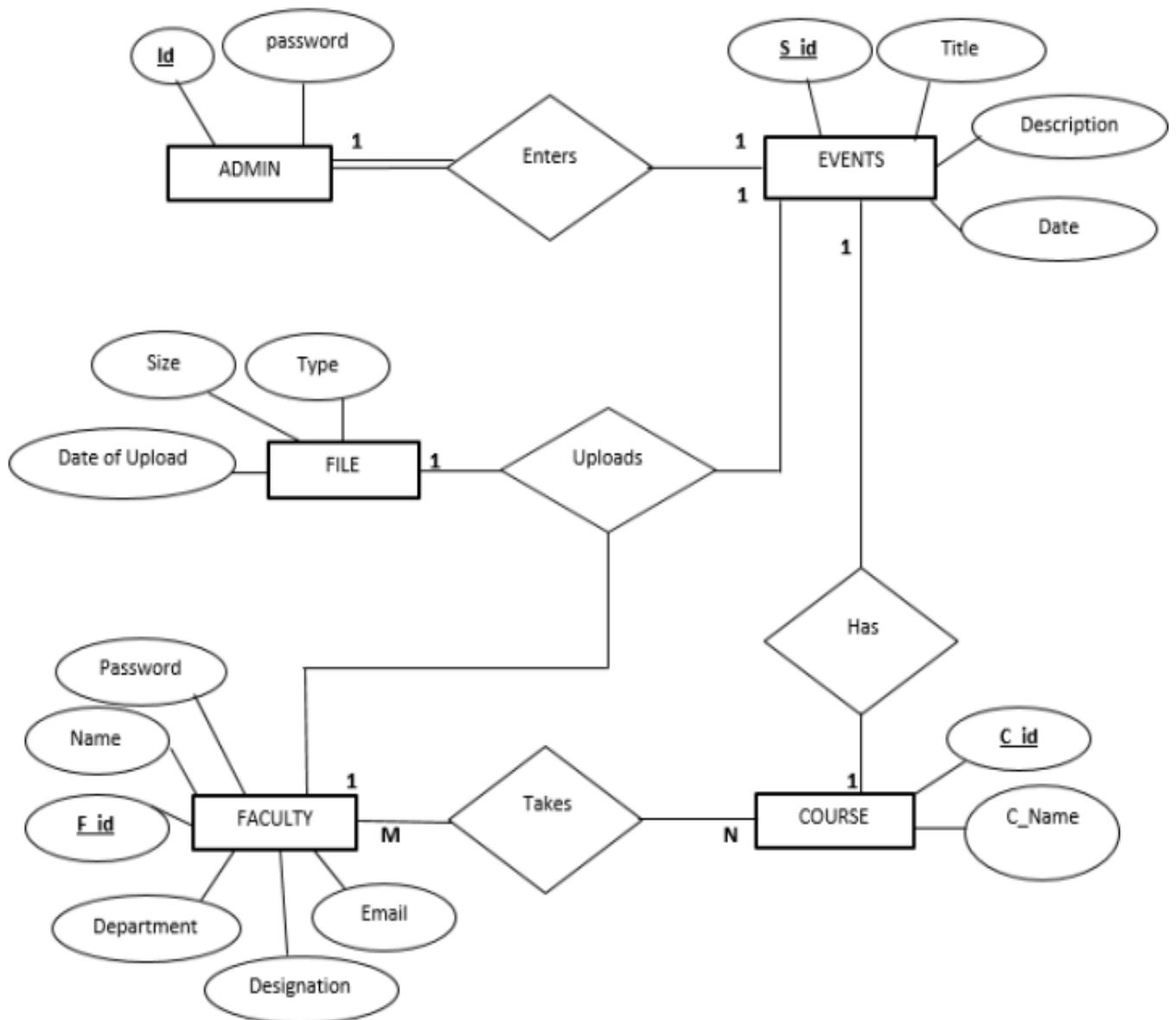
1. Use Case Diagram

Following use-case diagram will elucidate properly about the implementation of Course File Generator. Further modifications may be possible in the design and implementation according to future needs and requirements.



2. ER Diagram

Our project has two parts; the front-end i.e. web browser interface and the backend Server containing the databases. The website for the course file acts as a User interface to interact with the database so as the faculty get registered for a particular course in a semester by the admin. Data modification i.e. adding a new course/faculty/event is the job of admin. Our database design went through a little change for adding the different functionalities fulfil the upcoming requirements of our project. The design of the final database has been included along with the ER diagram, which shows the relationship among different entities of our project.



Work plan / Future work

Further, other functionalities according to future needs and requirements will be included in the Course File Generator that may include updating and maintaining. We will be developing various services for the newly introduced functionalities for more ease and efficiency to carry out the automated applications instead of manual work.

Conclusion

The project is in its developing phase. We will be using Php for writing all services required in this project and MySQL as database support. The main objective of this project was to generate a file at the end of semester and at the same time make it live and running.

References

- Software Foundation, “PHP Documentation Release 7.x”.
- “MySQL 5.7 Reference Manual”, revision: 50757
Website: - <https://dev.mysql.com/doc/refman/5.7/en>.
- “Boot Strap 3.0 Reference Manual”
Website: - <http://getbootstrap.com/getting-started>