A Synopsis on

An Integrated Platform for Knowledge Sharing

Submitted in partial fulfillment of the requirements
of the degree of

Bachelor of Engineering

in

Information Technology

by

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CERTIFICATE

This is to certify that the project Synopsis entitled **"An integrated platform for knowledge sharing"** Submitted by **"Shankar Sharma (15104018)", "Gaurav Babar(15105033)", "Dharmraj Yadav(15104021)" and "Satyajeet Yadav(15104025)"** for the partial fulfillment of the requirement for award of a degree **Bachelor of Engineering** in **Information and Technology** to the University of Mumbai,is a bonafide work carried out during academic year 2018-2019

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Declaration

We declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in our submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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Abstract

Exams are an important part of student lives and getting high scores in these exams is equally important as it is considered the primary criteria for hiring of a candidate by majority of organizations. In order to score high, studying from quality study material is a must. But it is observed that not all students get access to such quality study material while preparing for their exams and finally they tend to go for local publications available in market and rote learn them to anyhow clear the exams without taking care about whether the content they are referring is trustworthy. With the help of this project, we aim to provide a solution to this problem by building a web-based platform where the students sharing the same domain can come together and share the study material they think can help other students and at the same time gain the benefits from content already provided by other users which they were searching for. This platform will have a Rich User Interface and easy navigation where the study material will be categorized into branch, subject, module and finally into topics. Such a platform can help a large number of students by guiding them to prepare for their exams with confident.

Introduction

Examinations play an important role in students lives and so do the scores achieved in those exams. In order to score high grades, students require quality study material by referring which they can be confident of performing well in their exams. The problem that arises is not all students have access to such quality study material and so they decide to refer local publications which are easily available in market and rote learn them to somehow clear this exam without thinking about whether the material they are reading is of relevance and is trustworthy. During our research, we searched for resources that are already available to solve this problem, and found that there are several websites that have took steps to reduce this but most of them are limited to providing solutions to questions that are previously asked in exams but what about some important topics that are not appeared in exams but is important and also there are no resources available that provides material according to the syllabus prescribed by university. With the help of our project, we intend to provide a solution to this problem in the form of a web-based platform where the users sharing the same domain can come together and collaborate on study material. This platform will have the content categorized into branch, subject, modules and topics in accordance to the syllabus prescribed by the university, which will make it easier for the user to navigate through the platform and quickly access the topic they were searching for. The platform will have a Rich User Interface with other interactive features to help students prepare better for their exams.

Objectives

To create a platform for students and teachers where they can upload and view self made or collaborative content shared by others and prepare themselves for their academics.

Literature Review

No.	Author Name	Methodology	Merits	Demerits
1	Blanka Frydrychova Klimova, Petra Poulova, Michal Slama	A survey of 2449 respondents 1867 students was undertaken on online courses	As this research showed, a majority of respondents welcomed a possibility of having their study materials online.	Students are not used to exploiting the resources because they are not made available in an online medium.
2	Ivana Simonova, Petra Poulava	Students were provided various types of study materials and their satisfaction with the process was monitored	The participants in the online course expressed their positive approach and satisfaction with the course of study	Despite the contribution of the learning style theory to the online learning process was not proved within this project
3	Sucheta Kolekar, Radhika M. Pai, Manohara Pai M.M.	The conceptual architecture is proposed which focuses on adaptive e-Iearning application	As this research showed, a majority of respondents welcomed a possibility of having their study materials online.	–
4	Rolysent K. Paredes, Alexander A. Hernandez	Misamis University Online Learning Environment used to rate the UX on web services	It is expected that with this approach, future E-Learning applications will concentrate on learner's learning styles and adaptive interface for personalization.	The novelty aspect earned very low. This might due to the students or users do not consider it as a contributing factor for them to have a good user experience
5	Mahesh S. Patil, Meenaxi M Raikar, Padmashree Desai	Case study of Massive Online Open Course (MOOC)	Students were able to discover more requirements regarding the app features and mobile device requirements	Thus, students are not used to exploiting the resources because they are not made available in an online medium.
6	Dr.P Pabitha, M.Mohana, S.Suganthi, B.Sivanandhin	Question generation using Supervised learning	proposed system has so far implemented the stemming part using the porter algorithm.	Extracting all nouns hinder the system and generate unnecessary questions.

Problem Definition

The problem that arises is that there is no single book, portal, website where students of a university can get relevant content for learning the courses of that particular university. This causes the students to read from various unreliable sources and understanding of the subject is unclear at the end. This leads to less understanding and low score in examinations. Also, for professors who curate proper resources for their content there is no platform available currently to share their content outside their colleges, because of this only few privileged and lucky students get access to the valuable resources.
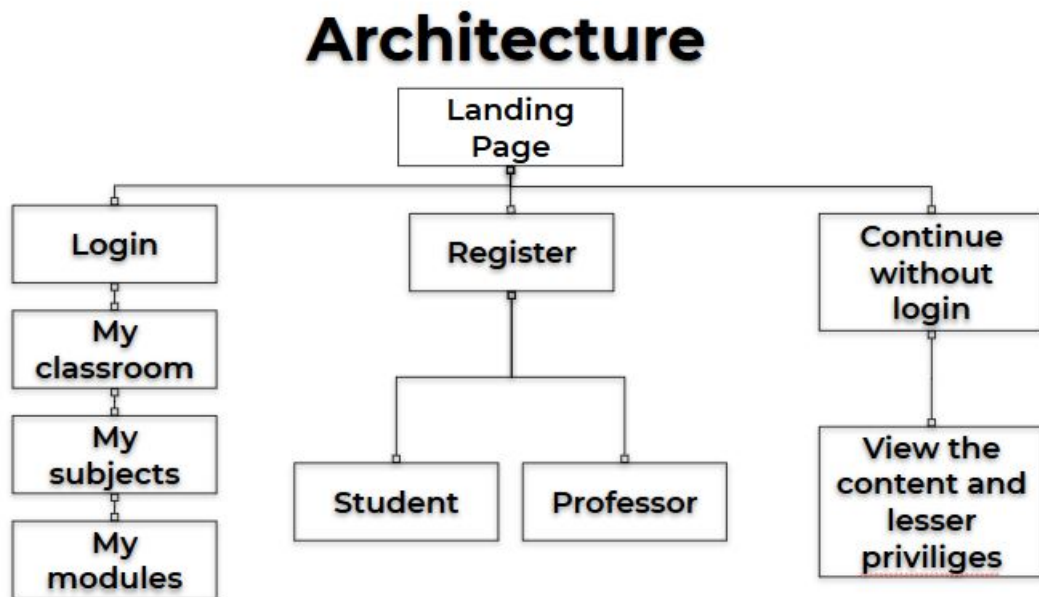

Figure 1: Architecture

The website starts with a landing page. The landing page starts with a hero section which defines everything about our site. From here, the user can either login or register as a new user to our site. User can also continue without login with less functionality. There are roles like admin, professor and user. The users can then navigate through their profile as classroom, subjects and modules. The content uploaded by user will be reviewed by professor and then replicated on the site.
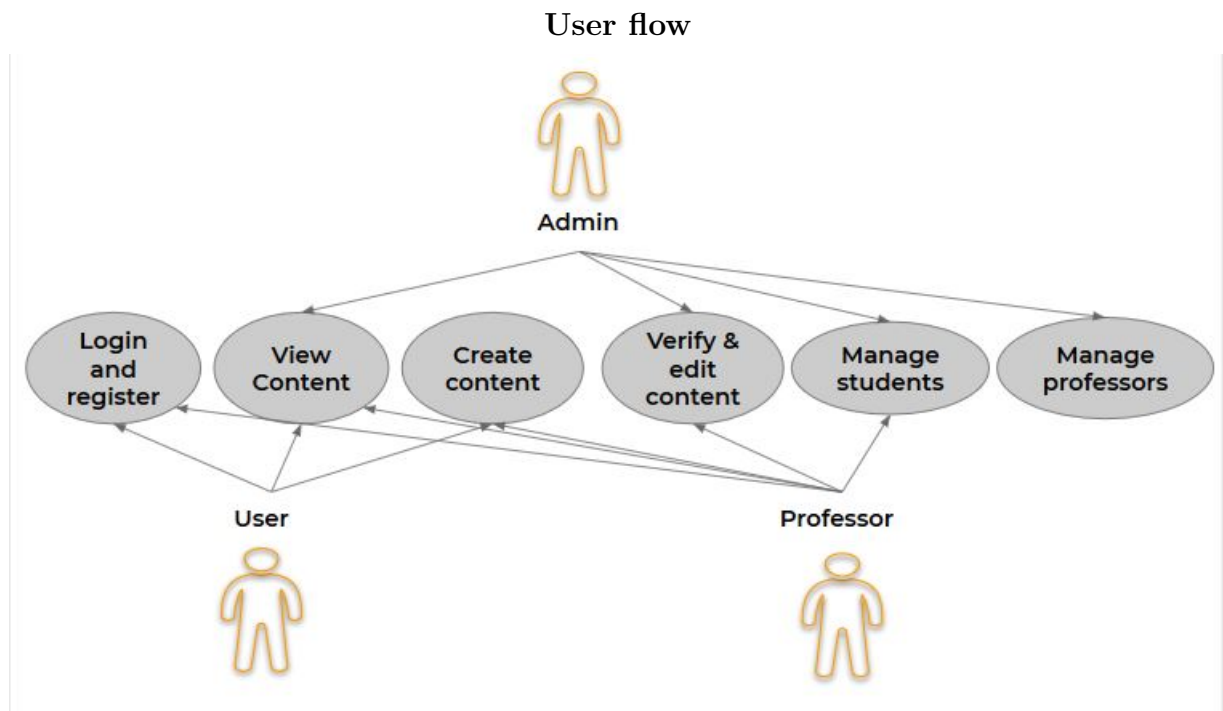
Figure 2: Use case diagram

The users of our project are: Admin who manages the users and professors. The Professor who reviews the content uploaded by students. The user which can only view and upload the content.

Summary

The work presented in this report is related to An Integrated Platform for Knowledge Sharing. The objectives and problem definition of the project have been clearly stated. The architecture and use-case diagram have also been given.

References

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