

CSE306: Software Engineering and Information System Design Lab

PREPARE SOFTWARE REQUIREMENT SPECIFICATION (SRS) DOCUMENT

by

Antika Dhar

2256

Maimuna Begum Fahima

2255



Department of Computer Science and Engineering
Premier University

Chattogram-4000, Bangladesh

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Company Name: Error Makers

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Antika Dhar

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Maimuna Begum Fahima

2255

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Design Lab

Instructor

MD Tamim Hossain

Lecturer

Department of Computer Science and Engineering

Premier University

Chattogram-4000

Signature

Abstract

In the digital age, the traditional boundaries of education have expanded beyond physical classrooms, thanks to the advent of online learning applications. Apna College represents a pioneering initiative in the realm of education, harnessing the power of technology to redefine the traditional college experience. Emphasizing a user-centric approach, Apna College provides students with accessible and interactive learning resources, while faculty and administrators benefit from efficient tools for course management, communication, and continuous improvement. The platform's commitment to data security and privacy ensures a trustworthy and secure space for the entire college community.

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Chapter 1

Introduction

In this chapter discuss the decision of the proponents whether the research proposal turned out to be feasible or not. This study contains the information needed for deciding whether to proceed with creating the business. State the reasons why the proposed business could be considered feasible or not.

1.1 Problem Statement

In the current educational landscape, traditional colleges face challenges related to communication gaps, administrative inefficiencies, and limited accessibility to resources. These challenges impact the overall student and faculty experience, hindering the potential for a collaborative and streamlined academic environment. To address these issues, the Apna College initiative identifies the following problem areas:

1. Limited Accessibility to Resources: • Educational resources, lecture notes, and study materials may not be easily accessible to all students. • A centralized repository for resources may be lacking, hindering a collaborative and shared learning experience.
2. Lack of Collaborative Learning: • Traditional classroom settings may not provide adequate opportunities for collaborative learning and meaningful academic discussions. • Students may face challenges in sharing and accessing educational resources and study materials.

1.2 Background

The development and evolution of online learning platforms have been influenced by various technological, educational, and societal factors. Here's a brief overview of the background of online learning platforms:

1. Early Beginnings (1960s-1990s):

- The concept of online learning dates back to the 1960s when computer-based education programs first emerged.
- The advent of the internet in the 1990s provided new possibilities for online education.

2. Blended Learning Models:

- Many traditional educational institutions started adopting blended learning models, combining online and face-to-face instruction. This approach aimed to leverage the benefits of both traditional and online learning.

3. Increased Acceptance and Accreditation:

- Over time, online degrees and certifications gained wider acceptance as reputable institutions and universities started offering accredited online programs.

4. COVID-19 Pandemic Impact:

- The global COVID-19 pandemic, starting in 2019, accelerated the adoption of online learning as educational institutions worldwide had to quickly pivot to remote learning to ensure continuity of education.

5. Continuous Innovation:

- Online learning continues to evolve with innovations such as virtual reality (VR), augmented reality (AR), and artificial intelligence (AI) being integrated into some platforms to enhance the learning experience.

Overall, the background of online learning platforms is characterized by a dynamic interplay of technology, pedagogy, and societal needs, with a trajectory toward increasing accessibility and effectiveness in education.

1.3 Benefits of Apna College

- It has resources like college reviews and very organized notes for several courses.
- It offers vocational or skill-based courses that are designed to prepare students for specific careers.

- This online courses may be more affordable than traditional in-person education, considering factors such as tuition, commuting, and accommodation costs.
- It allows learners to set their own pace and schedule.
- This platform brings together students from around the world, fostering a diverse and global community.

1.4 Objectives

- User Authentication: Secure login for students, faculty, and administrators with appropriate role-based access.
- Profile Management: Users can create and manage their profiles, including personal information, academic details, and preferences.
- Announcements and Notifications: Real-time notifications for important announcements, events, and updates from the college administration.
- Course Information: Access to course schedules, syllabi, and other relevant academic information.
- Resource Repository: A centralized repository for educational resources, lecture notes, and other study materials.
- Feedback System: Students can provide feedback on courses and faculty, and administrators can collect feedback for continuous improvement.

1.5 Purpose

Benefits of this Application are:

- Offering coding courses and placement preparation for students.
- Supporting collaborative projects and group work.
- Connecting students with alumni networks and industry professionals.
- Keeping pace with technological advancements to enhance the overall learning experience.
- Providing resources for career development, job placement, and internships.

1.6 Feature of Application

Serial No.	Admin	User
1	Add, edit, and delete user accounts	View and update personal details.
2	Add, edit, and remove courses.	Explore and enroll in available courses.
3	Upload and organize course content.	Access and interact with course materials.
4	View usage statistics and analytics.	Track personal progress and performance.
5	Communicate with users through messaging.	Engage with instructors and peers through messaging.
6	Monitor and moderate discussion forums.	Participate in course-related discussions.
7	Create and evaluate quizzes and exams.	Take quizzes and exams.
8	Manage system-wide notifications.	Receive alerts and reminders.