

KATHMANDU UNIVERSITY

SCHOOL OF ENGINEERING

Department of Computer Science and Engineering

Dhulikhel, Kavre



A PROJECT REPORT

ON

“STUDY GUIDE”

COMP-206

(For partial fulfillment of 2<sup>nd</sup> Year / 2<sup>nd</sup> Semester in Computer Science)

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7/22/2018

**CERTIFICATION**  
**SECOND YEAR SECOND SEMESTER PROJECT REPORT**  
**“STUDY GUIDE”**

Certified that this project report “**STUDY GUIDE**” is the bona fide work of **Sandeep Gautam, Ganesh Karki, Sudip Maharjan** and **Udip Parajuli** who carried out the project work under my supervision.

Approved by:

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Project Supervisor

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## **Acknowledgement**

We acknowledge and express our deepest gratitude towards those who helped us even a little with our project 'Study Guide'. The time and effort spent to develop this project has proven very fruitful as it was a platform for us to share ideas, collaborate and learn new things all at the same time. This project wouldn't have been possible without the valuable contribution of 'Department of Computer Science and Engineering' and our project supervisor Dr. Gajendra Sharma and coordinator Mr. Sameer Tamrakar who gave us invaluable feedback and guidance throughout the course of the project. They have been constant source of motivation for us all along the way. We would also like to thank our team members for their enthusiastic participation and hard work.

## **Abstract**

Study Guide helps you to pre-plan and organize your reading material and time. The utility of Study Guide includes assignment remainder, due date alert, attendance record and other significant student necessities. Being undergraduate students, we found it difficult to adjust appropriately with intermittent subjects. It would be easier and reliable, if an application helped us remind and keep up with the syllabus. The sole purpose of this software is to assist students with time management and comprehensive study. We intent to use client-side JavaScript language, along with HTML and CSS to create an attractive user-friendly visual schema. JavaScript will be used to modernize our website with interactivity. MySQL is used as the Database Management System for this project. We expect our software to meet current students' needs. The software we attempt to make shall be flexible so that necessary minor modifications can be considered.

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S.No	Subject	Absent Days	
1.	DIFFERENTIAL EQUATIONS & COMPLEX VARIABLES	1	+1
2.	MICROPROCESSOR	2	+1
3.	COMMUNICATION & NETWORK	3	+1
4.	NUMERICAL METHOD	1	+1
5.	DATABASE MANAGEMENT SOFTWARE	1	+1
6.	COMPUTER PROJECT	0	+1

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## **Abbreviation**

HTML = HyperText Markup Language

SQL = Structured Query Language

CSS = Cascading Style Sheet

JS = JavaScript



# **Chapter 1: Introduction**

## **1.1 Background**

The students of this generation have easy access to the internet but they are not able to make much from it. We could use it in a way to properly organize our study plan. Majority of the student submit their assignment just before deadline as they don't seem to remember the submission date. It would be way easier and reliable, if an application helped us remind and keep up with the syllabus. Study Guide helps you to pre-plan and organize your reading material and time. The utility of Study Guide includes assignment remainder, due date alert, notes and other significant student necessities.

MyHomework web application is one of the popular application for students. It basically focuses on the deadline and announcement of assignments and other important events. MyHomework application does not have a flexible syllabus and subject specification which make it less universal. Nevertheless, myHomework is an ideal application which undoubtedly enhances ones' academic status.

Study Guide will be flexible enough for individual student to adjust their schedule and subjects' subtopic as per ones' need. One can create their own plan and implement their own way which is less monotonous way of studying.

## **1.2 Objectives**

- i. To help students manage their schedule.
- ii. To alert and remind students about their due date and attendance.
- iii. To help keep track of upcoming events, and important activities.

### **1.3. Motivation and Significance**

Having will and motive to study sometimes isn't plentiful to keep up with academic progress. Unmanaged timetable, undermined due date, multiple courses or misjudged syllabus can lead to failure despite all efforts in our study. Being undergraduate students, we found it difficult to adjust appropriately with intermittent subjects. Centering these obstacle, we came up with the plan to choose "Study Guide" for our semester project.

Application like <https://myhomeworkapp.com/> is less flexible with schedule plan and syllabus specification. We offer to make a flexible pre-plan. Users will be able to specify their subjects of focus and their sub topics and plan their time accordingly which can indeed be beneficial for their academic. Furthermore, user can also store their syllabus and their respective subject notes.

## **Chapter 2: Related Works**

Students face a lot of difficulty managing their student-life. They tend to waste a valuable time managing unscientifically in notebook and ultimately end up with frustration, unmanage student-life. It becomes a habit and face many problems in their student life.

To get rid of these problems, in 2009 by Rodrigo Neri (Rigo), Keith Entzeroth and Ryan Niemeyer while they were still in college made a web applications where students can manage their school life. It replaces the traditional student planner with a great experience on students' favorite devices. myHomework Student Planner helps students stay organized amid busy class schedules. Students can sign up using a username and password. After classes have been created, students can add any other details to their calendars, including assignments, projects, and test dates. Reminders also can be set for any upcoming due dates. Ads exist in the free version, and teachers should be aware of a third-party rewards system (that can be turned off). So, studyGuide disable Ads feature and only student are the user which enable student to freely manage their study-time table according to their flexible time. In addition, studyGuide helps student to be independently create a habit in their study. Study-Guide try to make a real-time feature by reminding actual time left on their important date like submitting assignment, exam and many-more.

In 2010, Jamie Clarke also provided the easy solution needed to student in the form web-application to plan their student-life called MyStudyLife. It is an easy-to-use interface which allows students to stay organized and on top of class expectations effectively. With My Study Life, challenge students to take charge of their own learning and stay on top of class meeting dates and when due dates are approaching for projects and tests. My Study Life with consistency, it has the potential to build time-management skills. Although this tool doesn't specifically focus on one certain subject area, it does help students to be more successful in all their classes by keeping them organized and on top of assignments, tests, and important due dates. It lacks to motivate students to stay organized, Study-Guide enable digital rewards and badges, to share in social network.

## Chapter 3: Design and Implementation

### 3.1 System Architecture

A program running on a web server (server-side scripting) is used to generate the web content on various web pages, manage user sessions, and control workflow. Server responses are determined by such conditions as data in a posted HTML form, parameters in the URL, the type of browser being used, the passage of the time, or database of sever state.

### 3.1 User-Case Diagram

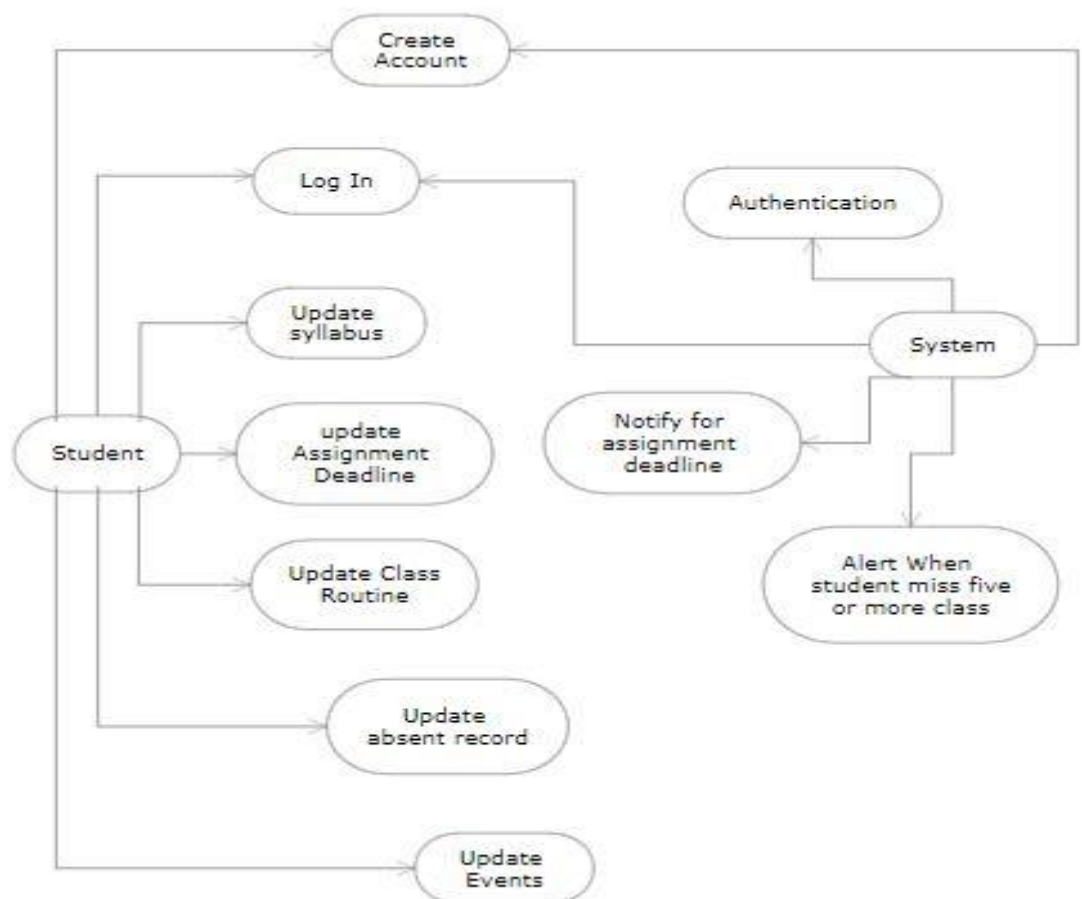


Fig:User-Case Diagram

## **3.2 Implementation**

Study Guide is a web application software which helps student to manage their academic stuffs. Students are able to notify assignment deadline, class routine, syllabus and attendance.

## **3.3 System Requirement Specification**

A server-side web application has to generate the web content on various web pages, manage user sessions, and control the workflow. To design such a web application, we need the help of various server-side languages including PHP and JS. HTML alone provides static content, meaning that the user requests a web page and simply views the page and the information on that page. CSS styles the web page as per the demand of attraction. A dynamic website has to store the data entered by the users somewhere. Therefore, MySQL has been a boon to store information and records.

### **3.3.1. Software Specification**

#### **3.3.1.1. Front End Tools:**

1. HTML: HTML describes the structure of Webpage using markup.
2. CSS: CSS is used to make webpages attractive.
3. JS: JS will be used to modernize our website with interactivity.

#### **3.3.1.2. Back End Tools:**

1. PHP: PHP is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML. It will be used as server-side language.
2. MySQL: MySQL is to be used as the Database Management System for this project. It will be used to store the user information, the budgetary information and other data to be accessed by PHP.

### **3.3.2. Hardware Specification**

Any computer or cellphones with internet access.

## **Chapter 4: Discussion on the Achievements**

The sole purpose of the Study-Guide was to digitalize the traditional student study-plan. The project initial intensions were to allow students to input and update Syllabuses, Assignments, Upcoming Events, Absent Record and Class routine. It was a real challenge to complete the entire package. Time restrictions was another problem. Nevertheless, within this short period, we presented a fully functional Study-Guide.

Version I Study-Guide includes features like organized assignments with countdown, editable class routine, up-coming events, easily real-time modifiable syllabus section and visually attractive absent record. Well divided assignments separates upcoming deadline from past deadline.

### **Features:**

- Beginner user in technology can use it with ease.
- Organized Up-coming events.
- Easily real-time modifiable syllabus section.
- Visually attractive absent record.
- Editable class routine.
- Assignments with deadline countdown.
- Separated upcoming deadline and past deadline.
- Use of MySQL database input and output steam is fast.

## **Chapter 5: Conclusion and Recommendation**

### **5.1 Conclusion:**

The web application we made is very flexible and can be adjusted according to ones' need. The users of this application are mostly undergraduate students who face difficulty keeping up with the study. Study Guide comprises syllabus, assignments, personal attendance and upcoming events. Countdown system and due date alert make the application more effective. Editable Class routine comes handier to the user. And the friendly platform adds charm to the application, making it an excellent tool for assisting students with their study. The application does what it is set out to do and meets most objectives of our project. Having said that, the software isn't a perfect solution and has some flaws and areas to improvise.

Nevertheless, the project taught us that the ability to programing a software includes various skills like learning from internet to reading books, collaborating with team mates, making mistakes and learning from those.

### **5.2 Future Enhancement**

Due to time restrictions and technical inconvenience, limitations exist in Study Guide. Syllabuses are not editable and hence marking is not possible. We believe the limitations of Study Guide can be minimized and there are efforts need to be put to make the web-application more visually appealing and add extra features like:

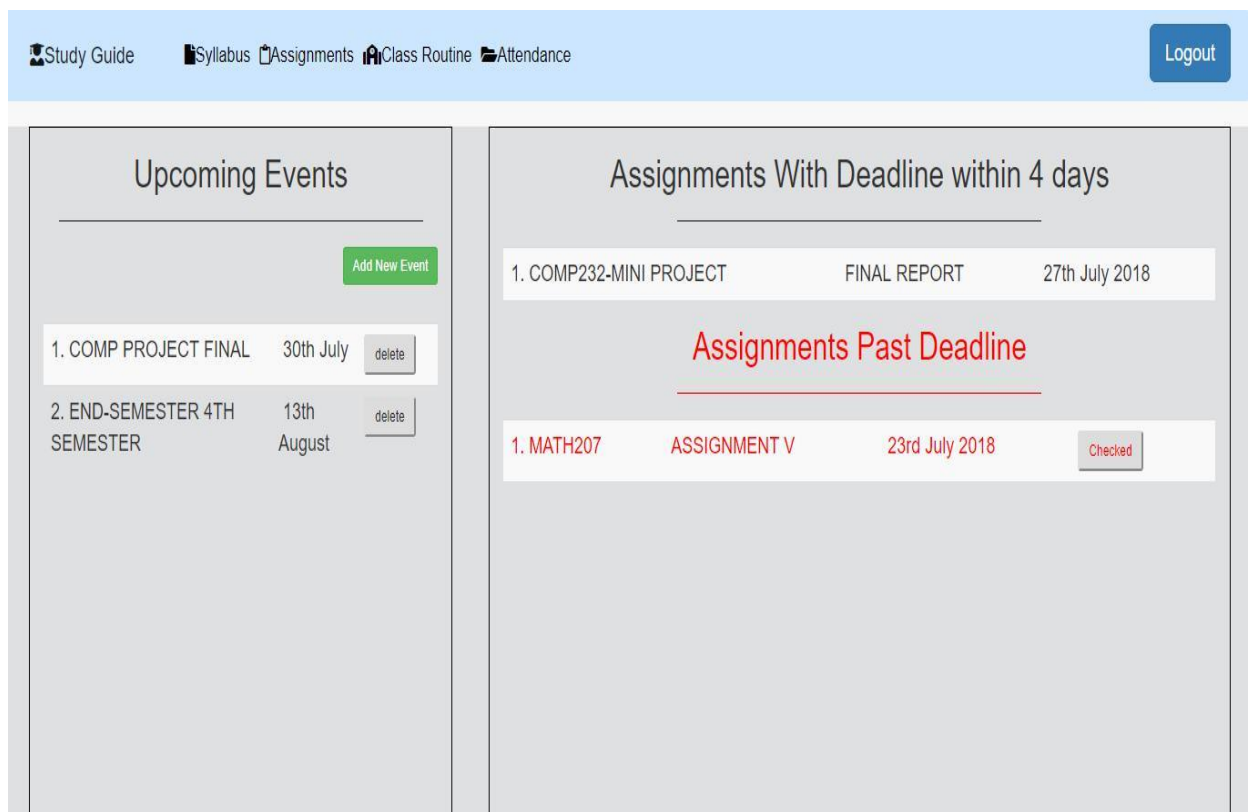
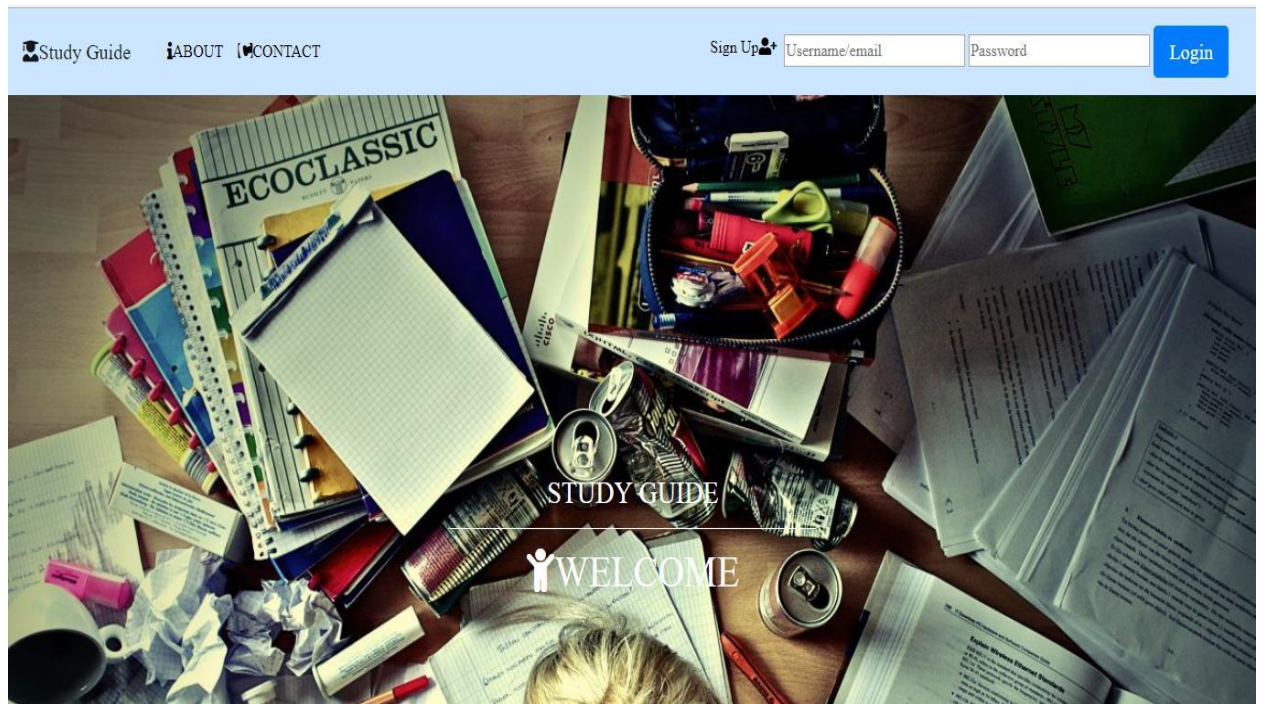
- More organized alert and notification system.
- Android version of Study Guide.
- Integrated notes and memos.
- Syllabuses with bookmarks.

## Reference

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2. Organise your classes, tasks and exams & never forget a lecture or assignment again. Retrieved July 25, 2018, from <https://www.mystudylife.com/>
3. MyHomework Student Planner. Retrieved July 25, 2018, from <https://myhomeworkapp.com/>
4. Callihan, Steven E. Cascading Style Sheets (CSS) by Example. Que, 2002.



## Screenshot:



[Study Guide](#)
[Syllabus](#)
[Assignments](#)
[Class Routine](#)
[Attendance](#)
[Logout](#)

	Subject	Assignment	Deadline	Time Remaining
1	Math207	Assignment V	2018-07-23	You are past deadline.
2	Comp232-mini project	Final report	2018-07-27	0 days 19 hours 9 minutes 6

[Study Guide](#)
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[Assignments](#)
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# TIME TABLE

Update

	7:00-9:00	9:00-10:00	10:00-11:00	11:00-12:00	12:00-1:00	1:00-2:00
SUNDAY	PROJECT DAY	PROJECT DAY	PROJECT DAY	PROJECT DAY	PROJECT DAY	PROJECT DAY
MONDAY	LEISURE	COMP231	COMP232	LUNCH	MCSC202(LAB)	MCSC202(LAB)
TUESDAY	MCSC202	LEISURE	LEISURE	COMP204	COMP232(LAB)	COMP232(LAB)
WEDNESDAY	LEISURE	COMP204	COMP204	LUNCH	COMP231	LEISURE
THURSDAY	MCSC202	LEISURE	MATH207	MATH207	COMP204(LAB)	COMP204(LAB)
FRIDAY	LEISURE	MATH207	MATH207	COMP232	COMP232	LEISURE

S.No	Subject	Absent Days
1.	DIFFERENTIAL EQUATIONS & COMPLEX VARIABLES	1 <input type="button" value="+1"/>
2.	MICROPROCESSOR	2 <input type="button" value="+1"/>
3.	COMMUNICATION & NETWORK	3 <input type="button" value="+1"/>
4.	NUMERICAL METHOD	1 <input type="button" value="+1"/>
5.	DATABASE MANAGEMENT SOFTWARE	1 <input type="button" value="+1"/>
6.	COMPUTER PROJECT	0 <input type="button" value="+1"/>