SUMMER-TERM TIMETABLE GENERATION

A PROJECT REPORT

Submitted by,

Mr. Naveen Kumar M - 20211CSE0354

Mr. Mohan S G - 20211CSE0383

Mr. Madhu K -20221LCS0013

Under the guidance of,

Mr. Asad Mohammed Khan

Assistant Professor

Presidency School of Computer Science and Engineering,

Presidency University, Bengaluru

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

At

PRESIDENCY UNIVERSITY

BENGALURU

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PRESIDENCY UNIVERSITY
PRESIDENCY SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the Project report **"SUMMER-TERM TIMETABLE GENERATION"** being submitted by Naveen Kumar M, Mohan S G, Madhu K, bearing roll numbers "20211CSE0354", "20211CSE0383", "20221LCS0013", in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Computer Science and Engineering is a Bonafide work carried out under my supervision.

Mr. ASAD MOHAMMED KHAN
Assistant Professor
PSCS
Presidency University

Dr. ASIF MOHAMMED
Associate Professor & HoD
PSCS
Presidency University

Dr. MYDHILI NAIR
Associate Dean
PSCS
Presidency University

Dr. SAMEERUDDIN KHAN
Pro-VC School of Engineering
Dean -PSCS / PSIS
Presidency University

PRESIDENCY UNIVERSITY
PRESIDENCY SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

DECLARATION

We hereby declare that the work, which is being presented in the project report entitled **Summer-Term Timetable Generation** in partial fulfillment for the award of Degree of **Bachelor of Technology** in **Computer Science and Engineering**, is a record of our own investigations carried under the guidance of **Mr. Asad Mohammed Khan, Assistant Professor, Presidency School of Computer Science and Engineering, Presidency University, Bengaluru.**

We have not submitted the matter presented in this report anywhere for the award of any other Degree.

Name	Roll No	Signature
Naveen Kumar M	20211CSE0354	Naveen Kumar M
Mohan S G	20211CSE0383	Mohan S.G
Madhu K	20221LCS0013	

ABSTRACT

The Timetable Generation is designed to be a software solution to make the operation of creating timetables easier. Currently, it is done manually, thus time-consuming and susceptible to error. This system automates the insertion of periods into the timetable, allowing smooth management and easy access for the faculty through a mobile application. Additionally, in cases where a teacher doesn't show up, arrives late, or leaves early, the timetable adjusts automatically.

For purposes of optimum workload distribution, the system therefore specifies maximum and minimum teaching hours on a daily, weekly, and monthly basis for each faculty member. The software will also allow users to request leaves with information on date, reason, and a substitute faculty member. When choosing a substitute, the system allows access to their schedule confirming if they are available during such a requested period. The chosen substitute can accept or decline the request. Also, the headmaster has a right to study leave requests and the responses of substitutes before arriving at a conclusion.

This integrated schedule management system is quite helpful for colleges as it avoids the complications that are associated with manual schedule preparation. This software helps faculty members easily view their schedules on their cell phones, making this process of school improvement very efficient and well-organized.

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We are greatly indebted to our guide **Mr. Asad Mohammed Khan, Assistant Professor** and Reviewer **Ms. Kayal Vizhi V, Assistant Professor**, Presidency School of Computer Science and Engineering, Presidency University for his inspirational guidance, and valuable suggestions and for providing us a chance to express our technical capabilities in every respect for the completion of the project work.

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We thank our family and friends for the strong support and inspiration they have provided us in bringing out this project.

Naveen Kumar M

Mohan S G

Madhu K

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