**CERTIFICATE**

Certified that Shubham Gupta, Siddharth Kapoor, Priyanka Jain and Vishu Kadiyan have carried out the project work presented in this report entitled “TiBle - Time Table Generator” for the award of Bachelor of Technology from Inderprastha Engineering College, Ghaziabad, under my supervision. The report embodies result of original work and studies carried out by students themselves and the contents of the report do not form the basis for the award of any other degree to the candidate or to anybody else.

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**DECLARATION**

We hereby declare that this submission is our own work and that to the best of our knowledge and belief. It contains no material previously published or written by another person nor material which to a substantial extent has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text.

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**ABSTRACT**

A college timetable is a temporal arrangement of a set of classes and faculties in which all given constraints are satisfied. The manual system of preparing time table in colleges with large number of students is very time consuming and usually ends up with various classes clashing with same teachers having more than one class at a time.

Timetabling has long been known to belong to the class of problems called NP hard. To overcome all these problems we propose to make an automated system. This project introduces a practical timetabling algorithm capable of taking care of both strong and weak constraints effectively, used in an automated timetabling system.

Our Timetabling Algorithm is main component of our project which produces the HTML based weekly timetable sheet as the output. Our project takes various inputs from the user such as Faculty List, Course List, Semester List, Day List and Timeslot as well as various rules, facts and constraints using web based forms, which are stored in the database. List of subjects may include electives as well as core subjects. This database serves as an input to our Timetable Generator Algorithm residing on server machine.

**LIST OF FIGURES**

1.1 Timeframe Schedule 4

5.1 Use case Diagram 13

5.2 Work Breakdown Structure 14

5.3 Data Flow Diagram 15

5.4 ER Diagram 16

7.1 Login 29

7.2 TiBle 29

7.3 Open Table 30

7.4 Subject 31

7.5 Teacher 32

7.6 Batch 33

7.7 Subject-Teacher 34

7.8 Batch-Subject 35

7.9 Batch Select 36

7.11 Save 38

9.1 Login Prompt 42

9.2 Basic Information 42

9.3 Subjects' Information 43

9.4 Teachers' Information 44

9.5 Batches' Information 45

9.6 Subject Teacher Association 46

9.7 Batch Subject Association 47

9.8 Current Batches and Priorities 48

9.9 Generated Time Table 48

9.10 Save Time Table after editing 49

9.11 Open saved Time Table 49

10.1 Login Interface 52

10.2 Error in Login 53

10.3 Register 54

10.4 Dashboard View 55

10.5 Home Page 55

10.6 TiBle Dashboard 56

10.7 Add Subjects and Labs 56

10.8 Filled Data for Subjects and Labs 57

10.9 View After data added 57

10.10 8th Semester timetable generated 58

10.11 Broad View 58

10.12 6th Semester Timetable 59

10.13 Top right Dropdown Menu 59

**TABLE OF CONTENTS**

**CHAPTER NO.**  **TITLE** **PAGE NO.**

**CERTIFICATE** I

**ACKNOWLEDGEMENT** II

**DECLRATION** III

**ABSTRACT**  IV

**LIST OF FIGURES** V

1. Introduction 1
   1. Purpose 2
   2. Benefits 2
   3. Constraints types 2
   4. Similar Products 3
   5. Timeframe Schedule 3
2. Literature Review 5
   1. The General View 5
   2. The Object Oriented View 6
   3. Linear Programming / Integer Programming 6
   4. Rich Internet Applications 8
3. Theoretical Framework 10
   1. About PHP 10
      1. History 10
      2. Overview 11
      3. Features 12
   2. About Javascript 13
      1. Overview 13
      2. Features 14
   3. About Rich Internet Applications 14
      1. Introduction 14
      2. History 15
      3. General Benefits 16
      4. Performance Benefits 17
      5. Shortcomings 19
      6. Software Development Complications 21
   4. TiBle 25
      1. Product Name 25
      2. Product Description 25
      3. Product Features 26
4. TiBle Functionality 27
   1. Work / Data Flow 28
   2. Functions 29
5. Requirement Analysis 30
   1. System Configuration 30
   2. Developer Tools 30
   3. User Tools 30
   4. Tools for Documentation 31
   5. Standardized Knowledge Representation 31
      1. About XML 31
      2. XML Advantages 32
6. Overview 34
   1. Use Case Diagram 34
   2. Work Breakdown Structure 36
   3. Dataflow Diagram 36
   4. ER Diagram 38
7. Implementation 40
   1. Interface Implementation 41
      1. Logic Interface 41
      2. Basic Information Interface 42
      3. Subject Interface 42
      4. Teacher Interface 42
      5. Batch Interface 42
      6. Subject – Teacher Interface 42
      7. Batch – Subject Interface 43
      8. Batch – Selection Interface 43
      9. Timetable Output Interface 43
      10. Save Timetable Interface 43
      11. Open Timetable Interface 43
   2. Algorithm Implementation 44
   3. Database Implementation 44
8. Testing 46
   1. Functional Test Criteria 48
   2. Integration Testing 48
   3. User Acceptance Testing 49
   4. System Test Criteria 49
   5. Test Cases and Test Results 49
9. Conclusion and Future Works 50
   1. Conclusion 50
   2. Future Works 50
10. Screenshots 52
11. Appendix 60
    1. Installation Manual 60
    2. User Interface Scenario 60
12. References 61