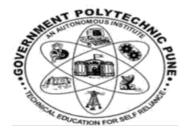
## Government Polytechnic, Pune

(An Autonomous Institute of Government of Maharashtra)



A

#### PROJECT REPORT

On

"Time Keeper"

#### PRESENTED BY

1)Abhishek L. Bhalerao 1707001

2)ArchanaB.Bhidve 1707009

**3)Nitin S.Gavhane 1707022** 

**GUIDED BY** 

Smt. N. P Sarwade

**SUBMITTED TO** 

**GOVERNMENT POLYTECHNIC, PUNE** 

**OF** 

THIRD YEAR DIPLOMA IN

INFORMATION TECHNOLOGY ENGINEERING

2019-20

# Government Polytechnic, Pune-16 (An Autonomous Institute of Government of Maharashtra) Department of Information Technology



This is to certify that **Abhishek L. Bhalerao** has successfully completed the Final Year Project on "**Time Keeper**" as part of his Diploma curriculum in academic year 2019-20.

Project Guide (Smt. N. P. Sarwade)

H.O.D (Smt. M.U.Kokate)

**Principal** (Dr.V.S.Bandal)

#### **ACKNOWLEDGMENT**

It is my proud privilege and duty to acknowledge the kind of help and guidance received from several people in the preparation of this report. It would not have been possible to prepare this report in this form without their valuable help, cooperation and guidance.

First and foremost, I wish to record my sincere gratitude to the Management of this college and to our Respected Principal, for his constant support and encouragement in the preparation of this report and for the availability of library and laboratory facilities needed to prepare this report.

My sincere thanks to **Mrs. M. U. Kokate**, Head, Department of Information Technology, Govt. Polytechnic,Pune for her valuable suggestions and guidance throughout the preparation of this report.

I express my sincere gratitude to my Guide, **Smt. N. P. Sarwade** for guiding me in investigations of this project and in carrying out experimental work. Our numerous discussions were extremely helpful. I hold her in esteem for guidance, encouragement and inspiration received from her.

Last but not the least I wish to thank my parents for financing my studies and helping me throughout my life for achieving perfection and excellence. Their personal help in making this report and project worth presentation is gratefully acknowledged.

### **INDEX**

| No. | Chapter                            | Page   |
|-----|------------------------------------|--------|
| 1.  | INTRODUCTION                       | 1 - 2  |
|     | 1.1 Project Objectives:            |        |
| 2   | DDODLEM DEFINITION                 |        |
| 2.  | PROBLEM DEFINITION                 | 3      |
|     | 2.1 Problem Statement:             |        |
| 3.  | REQUIREMENT SPECIFICATIONS         | 4 - 5  |
|     | 3.1 Software Specifications:       |        |
|     | 3.2 Hardware Specifications:       |        |
|     | 3.3 Android Platform:              |        |
|     | 3.4 Firebase:                      |        |
|     | 3.5 Non-Functional Requirements:   |        |
| 4.  | FEASIBILITY STUDY                  | 6 - 22 |
|     | 4.1 Economic Feasibility:          |        |
|     | 4.2 Technical Feasibility:         |        |
|     | 4.3. Behavioral Feasibility:       |        |
| 5.  | SYSTEM DESIGN                      | 7 - 16 |
|     | 5.1 Modules:                       |        |
|     | 5.1.1 Login & User Authentication: |        |
|     | 5.1.2 Registration Form:           |        |
|     | 5.1.3 Calendar:                    |        |
|     | 5.1.4 Daily View:                  |        |
|     | 5.1.5 Timer:                       |        |
|     | 5.1.6 Stopwatch:                   |        |
|     | 5.1.7 Profile:                     |        |
|     | 5.1.8 Time Management Tips:        |        |
|     | 5.2 System Analysis Model:         |        |
|     | 5.2.1 Data Flow Diagram:           |        |

|    | 5.2.2 Use Case Diagram:      |         |
|----|------------------------------|---------|
|    | 5.2.3 Activity Diagram:      |         |
|    | 5.2.4 ER Diagram:            |         |
|    | 5.2.5 Class Diagram:         |         |
|    | 5.2.6 Component Diagram:     |         |
|    | 5.2.7. Package Diagram:      |         |
|    | 5.3 Database Design:         |         |
| 6. | SCREENSHOTS                  | 17 - 20 |
|    | Fig 6.1. Login Screen        |         |
|    | Fig 6.2. Registration Screen |         |
|    | Fig 6.3. Calendar            |         |
|    | Fig 6.4. Daily View          |         |
|    | Fig 6.5. Timer               |         |
|    | Fig.6.6 Stopwatch            |         |
|    | Fig.6.7 Profile              |         |
|    | Fig.6.7 Time Management Tips |         |
| 7. | CONCLUSION                   | 21      |
| 8. | REFERENCE                    | 22      |
|    |                              |         |

## TABLE OF CONTENTS

| Title Page               | i   |
|--------------------------|-----|
| Certificate of the Guide | ii  |
| Acknowledgement          | iii |
| Index                    | iv  |
| List of Figures          | v   |
| Abstract                 | vi  |

## **List of Figure**

| Fig No. | Name                        | Page |
|---------|-----------------------------|------|
| 5.2.1.1 | Data Flow Diagram (Level 0) | 11   |
| 5.2.2   | Use Case Diagram            | 12   |
| 5.2.3   | Activity Diagram:           | 12   |
| 5.2.4   | ER Diagram:                 | 13   |
| 5.2.5   | Class Diagram               | 14   |
| 5.2.6   | Component Diagram           | 14   |
| 5.2.7   | Package Diagram             | 15   |
| 6.1     | Login Screen                | 17   |
| 6.2     | Registration Screen         | 17   |
| 6.3     | Calendar                    | 18   |
| 6.4     | Daily View                  | 18   |
| 6.5     | Timer                       | 19   |
| 6.6     | Stopwatch                   | 19   |
| 6.7     | Profile                     | 20   |
| 6.8     | Time Management Tips        | 20   |

#### **ABSTRACT**

Time Keeper is an android application which accesses the Events of multiple users, for instance members of a student or staff in a particular department and will pull out the events from every calendar. Hence, everyone in the group can see others events on one screen in customized format. It also helps the user to create, edit, and delete events of his/her calendar. Additionally, this application will use an efficient strategy to update data only if there is any change in the events, making it faster. There are many other applications in the Play store but they cannot get rid of redundant events and reminders of events belonging to other users. This causes a lot of disturbance to the user.

On the contrary, Time Keeper application will use intelligent methods to compare the events in many ways based on the time, name, and place of event. Furthermore, this application will only generate reminders for the user to all type of events. This project intend to solve the problems of propagating news and information, and also alleviate the problem of traditional event managing procedures such as lots of paper work, or long queue at the registration desk. The objective of this project is to develop an android application which provides interesting news and events notification.

**Keywords:** Efficient strategy, Contrary, Web-based discussion, Problem of propagation,, Solutions, alleviate of problem