Time Table Management System

Use Case Model Document

Version 1.0

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Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 6/10/2018 | 1.0 | Initial draft for Inception phase. To be detailed further during elaboration. | Shoaib Manzoor  Moiz Adnan  Furqan Hameed |

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System Features

## Smart Time Table Generation

Allows for the automatic creation of weekly schedules which satisfy classroom constraints, professor preferences and ensure minimum student clashes. Time Table Management System uses the school/ universities existing dataset to

## Schedule Presentation Views

TTMS presents a schedule in many different views for each actor involved. Students and Professors can view classes relevant to them allowing for a much more concise and easy to understand view. Special features are also available based on the current view being presented (e.g. modification for administrators, reschedule/ cancel operations for professors etc.)

## Schedule Modification

TTMS allows for the modification and adjustment of existing schedules based on new dynamic conditions that have arisen. Academic Officers can easily view possible available slots and appoint a new class accordingly. Schedules may also be modified based on other criteria. (e.g. upcoming national holidays, classroom repair work, lecturer unavailability etc.)

# Positioning



## Business Opportunity

Educational institutes especially universities mostly make the timetables by hand, which is very time consuming and can create problems for both students and administrators in the long run. This application can help these institutes tremendously thus there is a demand for an application like this, and this application can fill the market gap in this area.

## Problem Statement

|  |  |
| --- | --- |
| The problem of | Miss-managed and clash filled timetables |
| affects | Students, professors, administrators |
| The impact of which is | More hassle, more time wastage |
| A successful solution would be | An automated timetable system which generates the best possible timetable according to rooms available |

## Summary of Capabilities

**Table 4-1 Customer Support System**

|  |  |
| --- | --- |
| **Customer Benefit** | **Supporting Features** |
| Academic Officers save hours of work weekly spent on Time table creation | *Smart Builder in TTMS provides weekly time table generation functionality based on dynamic requirements and satisfies constraints* |
| Ease in the handling of rescheduled/ cancelled classes | *Allows Academic Officers to easily manipulate existing schedules to suit new conditions* |
| Students and Professors easily view their respective classrooms | *Handles different views for Students and Professors allowing for better visual experience* |
| Ease of delivery of key information in scenarios where classes are rescheduled or cancelled | *TTMS Notification Service notifies all involved parties when a class schedule is modified by an Admin or a Professor* |
| Ease in planning classrooms for Professors | *Professors can highlight key features of classrooms within a schedule to inform students and maintain a steady pace for their course* |

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