

Krono



By Team Leo

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Problem Statement

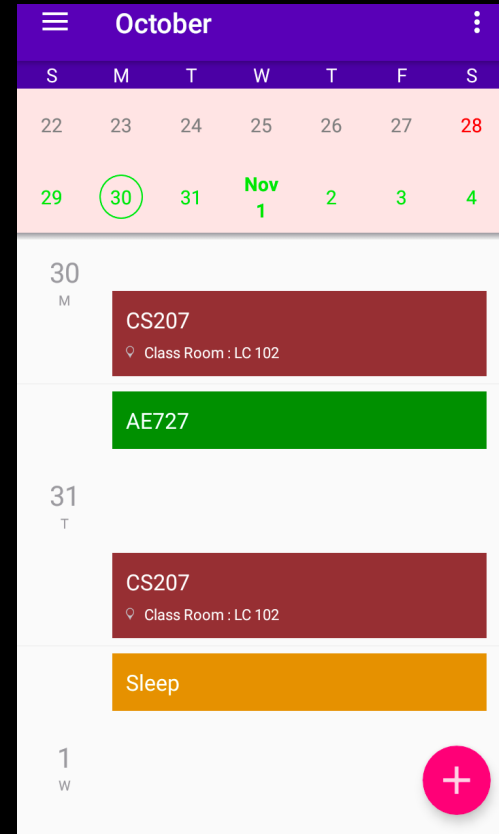
To make an Android application that stores events related to classes, tutorials, events, etc. to deliver notifications, set reminders and also implement features like adding courses, getting institute events, silent mode during classes to aid IIT Bombay students.

FEATURES

Agenda View shows all your events and reminders in one place.

Jump to a date by tapping on it.

Add events by tapping on the plus.



No need to painfully
enter timings for
classes.

Add IIT Bombay
courses with one
click.

Search Courses

cs10

Computer Programming and Utilization

CS101

Class Room : LA 101

11 Fri-11B-15:30:00-16:55:00

Tue-11A-15:30:00-16:55:00

Computer Programming and Utilization

CS101

Class Room : LA 101

4 Tue-4B-08:30:00-09:25:00

Computer Programming and Utilization

CS101

Class Room : LA 101

4 Tue-4B-08:30:00-09:25:00

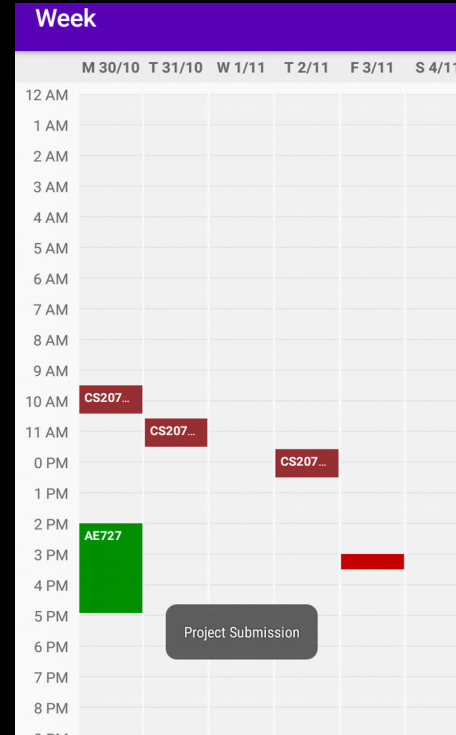
Computer Programming and Utilization

CS101

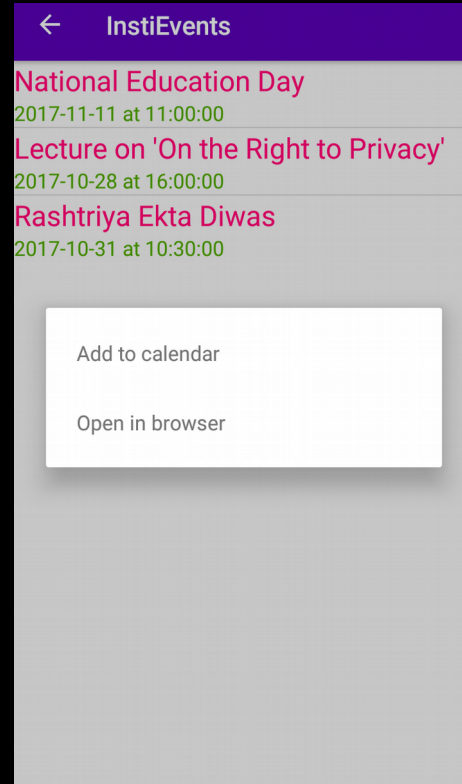
Class Room : LA 101

6 Fri-6B-11:05:00-12:30:00 Wed-6A-11:05:00-12:30:00

Provides an overview of a week with different color schemes for different types of events.

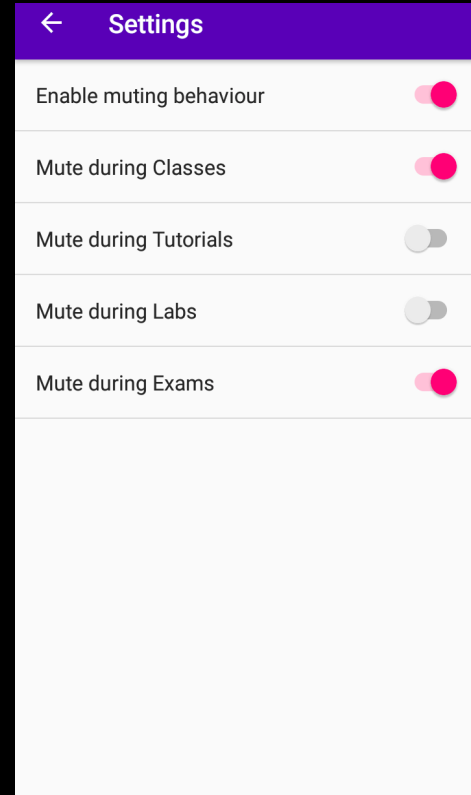


Add latest events from
the institute's web
calendar to your phone.



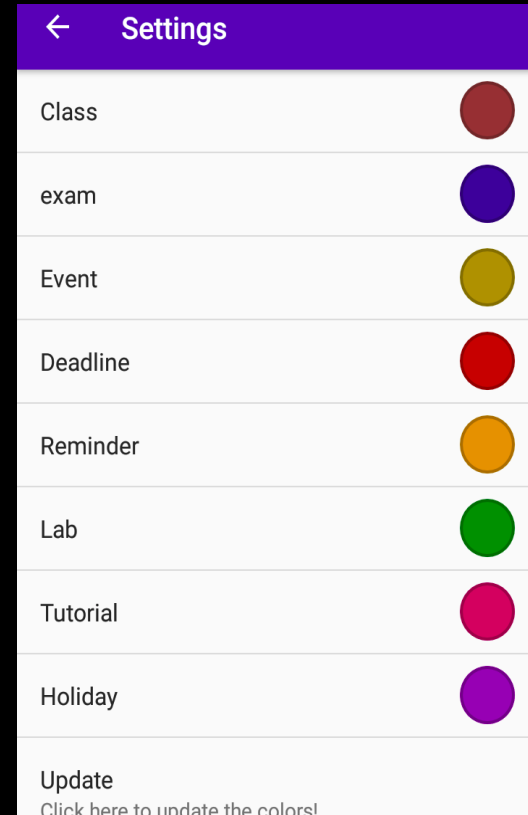
Now never worry about
your phone ringing off in a
lecture!

Automatically silences your
phone during classes or
exams.



Make your calendar your own.

Choose your own colors for
different events.



Motivation

- No calendar app available in market specially designed for IIT Bombay students.
- If available then lacking in some or all of these features:
 - Categorization of events for students e.g., classes, exams, labs, user-created events etc.
 - Adding IITB courses with one click.
 - Making phone silent during classes.
 - Holidays for IIT Bombay students.
 - Adding Institute events to calendar.

Literature Survey

- Some android apps like Google Calendar, Timetable have some of these functionalities - reminders and timetables.
- Timetable app additionally provides keeping track of grades, switching the phone to silent mode during classes.
- Studios app does provide some additional features like color-coding schemes.

Software And Hardware Requirements

- Softwares
 - **Android Studio** for developing the app
 - **SQLite** for managing databases
 - **GIT** for collaboration and version control
 - Microsoft **Azure** Platform
 - GNU tools like **awk**, **sed** etc
- Programming Languages
 - JAVA
 - XML
 - Python
- Hardware
 - Phone with Android 4.2 Jellybean or above

Implementation

- Krono uses the Android Calendar Provider API to set reminders and create, and modify or delete events.
- It stores data regarding courses in SQLite databases. User can query it from the app and add courses to his/her calendar.
- It runs a background service which checks for events like classes or exams and automatically silences the phone if needed.
- It connects to web scraper deployed on Microsoft Azure that periodically scrapes events from the web calendars.

THANK YOU