

# Lemna Proposal

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## Group Name:

TaskOverflow

## Project Name:

TaskTrigger (Lemna)

## Overview

Scheduling is always important for one's life. Contemporary calendar apps provides good organization of ones events. We will implement basic functionalities of a personal calendar. There are three ways to define an event. First, manually input the event with text. Second, input the event with speech. Third, click on the map and location is fixed.

However, when there are multiple people trying to schedule an event, it takes very much time and communication to find a mutual time slot to accommodate everyone's schedule. Our app aims to include group schedule sharing and automatic group event scheduling. Besides time slot, transportation(eg, use Uber interface), location(eg, use Yelp), and other dimensions of a group event can also be arranged with this app.

Previous feature is to fix people and we find an event. In contrast, we can fix an event and let people go to this event. A host can initialize an event and configure its location, time, type and visibility(public, open to friends only, etc) People may be able to find this event if they search. We name this feature "Lemna", from a Chinese motto: meeting of water and lemna, which means meeting of strangers.

## Main functionalities of the app

- Schedule draw up
  - Allow users to draw up their own schedules/tasks
    - Using default interface components
    - Using location
    - Using speech or plain text as input
      - Served by our highly intelligent voice assistant IRIS (using Lex)
- Group Schedule Sharing
  - Allow users to set a schedule and designate other attending users.
  - Allow users to subscribe to a specific schedule
  - Automatic group event scheduling
    - Help a group to draw up a proper meeting time by analysing each group member's schedule
- Event hosting and joining (Lemna)
  - A host initiates an event, configures its time, location, type, and privacy.
  - A user can search for events according to some standards, like time, location, type, etc. Then he may join the event.
    - Privacy configuration restricts who can see the event.
  - An event can be conditional. For example, a condition can be: The meeting only happen if more than 5 people join.
- \*Location based activity scheduler
  - Location based activity creation:
    - create your activity by double clicking on the map
  - Location based scheduler:
    - display event descriptions on the map according to your personal schedule
  - Location based scheduling tools
    - Route planning
    - Activity recommendation, such as movie theatre finding, restaurant finding, etc.
  - Happy hour nearby:
    - Publicize your free time slot and looking for social activities shared by other users.