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Submission Instructions

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GitHub Username: krkeco

It's A Date

Description

It's a Date is designed for busy people who have busy schedules
Simply make a QR code, and anyone with the code can add into the event
Set up your own 'available' timeframes and, using Google Calendar, It's A Date will find the best times within your timeframes.

Intended User

Anyone who needs a hand with planning meetings, parties, etc.

Features

List the main features of your app. For example:

- Connect to local calendar
- Send your ‘availability’ to the server
- Server will cross reference others and find the best times!

User Interface Mocks

These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

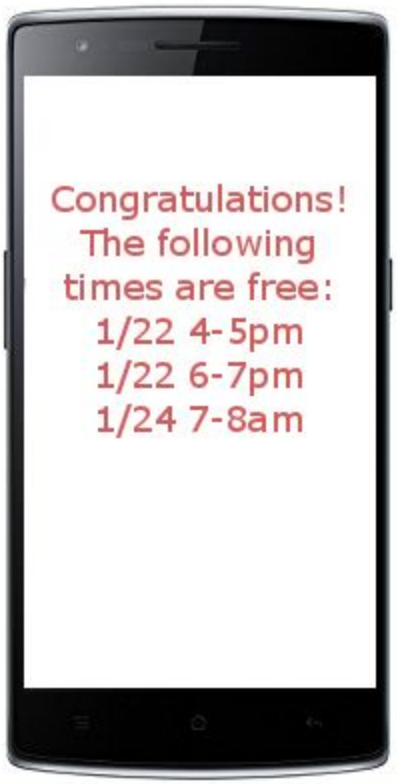
Screen 1

Daylight: is the time each day you are willing to meet from (8am to 8pm for example, this may need to be adjusted for work)
2 dropdown number pickers will provide the interface for this.

Timeframe is the days of time you are looking to meet within (maybe anytime from tomorrow to next Thursday)
2 month pickers will provide the interface for this

Calendars:
At the start of the activity, there will be a check for the calendar and it will retrieve all the calendars stored on the device, and then populate a listview or recyclerview of them with a checkbox.

Lastly the Find our time button will make an asynctask that will make a check of all calendars checkboxed, and retrieve the calendar information they have, make a freespace list and send that to the server



The server will return screen 2 with the free times available going in soonest first order

Key Considerations

How will your app handle data persistence?

There will not be persistent data because that might be creepy

Describe any corner cases in the UX.

When a group doesn't actually have any available time in their schedules

Ensure you can't go back in time on dates, but still have the remainder of 'today' available

Describe any libraries you'll be using and share your reasoning for including them.

Not sure I will need any

Describe how you will implement Google Play Services.

Will incorporate the Calendar API to retrieve calendar dates, and create them (in the event of a successful day being chosen).

Next Steps: Required Tasks

Task 1: Project Setup

- Create project
- Add calendar api
- Add gcm module

Task 2: Implement UI for Each Activity and Fragment

- Create UI with textviews and button
- Create UI for returnfragment view of asynctask

Task 3: Create calendar data classes

- Implement calendar api to retrieve data
- Take events and combine into ‘free time’ slots
- Package data in a way that is easily read and received by backend
- method to create a calendar event under the ‘default’ calendar

Task 4: Create Async/Backend

- Send data to server via asynctask (send eventID include participants#, subarray[freetime])
- Create datareceivelistener for when the data gets processed and sent back (triggers second activity returns dates in list)
- Enable server side collection of data
    - Count each packet received with id
    - Timeout counter to reset data
    - Store times under database
    - When all participants have sent in, process database and find same entries
    - Return the entries that meet criterion to participants

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