#### HCI: TASKS AND SUBTASKS

Dr Kami Vaniea

No one interacts with a computer because they want to use it.

They interact with the computer to do something with it. To accomplish a task of some sort.

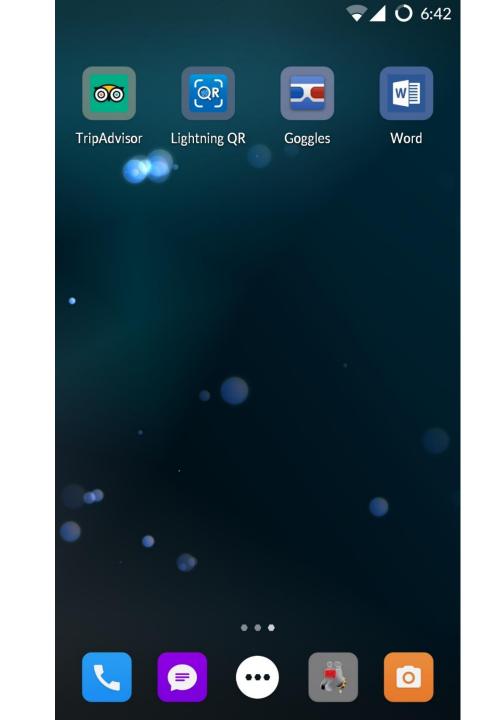
A large part of human-computer interaction is about making those tasks easy to accomplish using the computer.

#### **Tasks and subtasks**

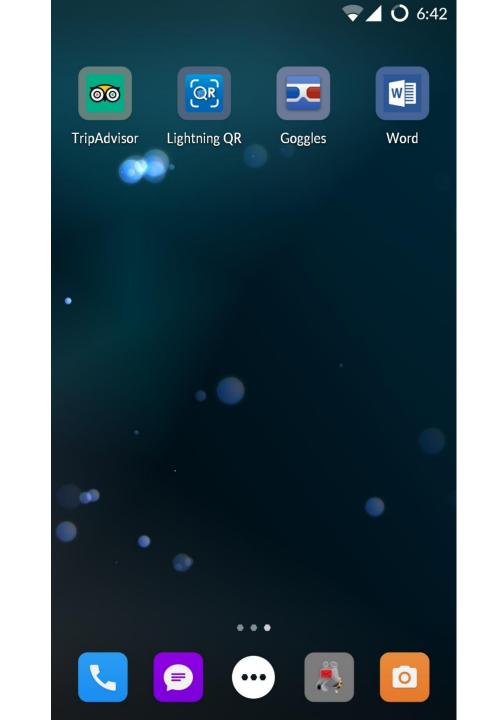
- A "task" is basically something someone wants to do. It is typically high level and expresses some state that user wants to achieve.
  - Determine if I need to buy anything fridge-related from the store.
  - Spend an hour playing not-too-challenging games
  - Play the song I just thought of.
- A subtask is a smaller task that must be completed to complete the larger task
  - What was the name of the song?
  - Which music service is likely to have it?
  - There are two versions, which one do I want to play?

#### Simple example:

#### Task: Set an alarm for 7:00am

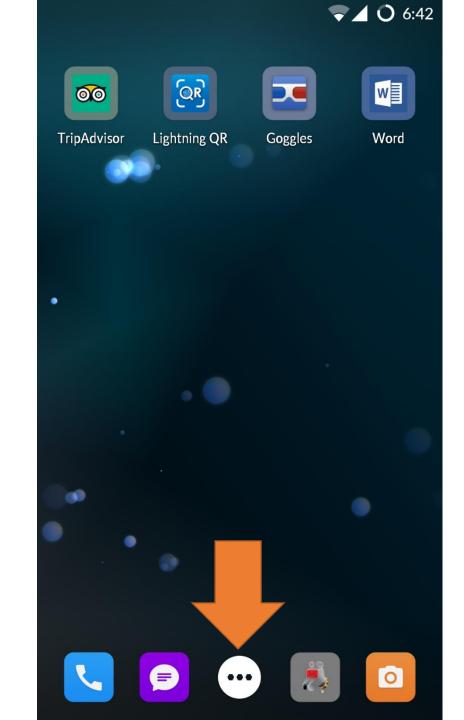


<u>Subtask 1</u>: Find an app that supports "alarm clock" type functionality.

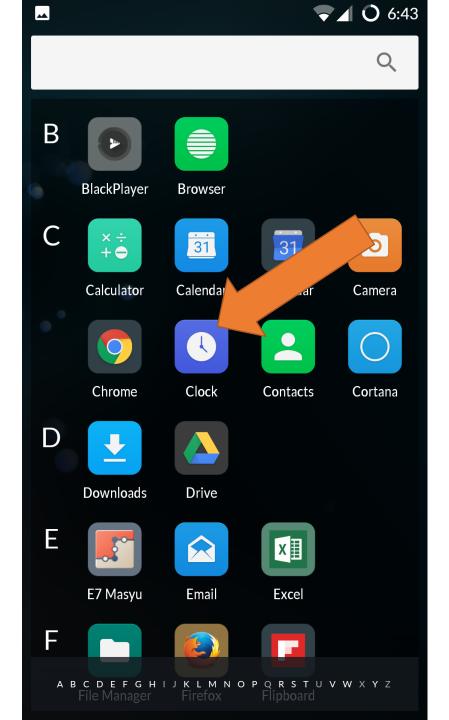


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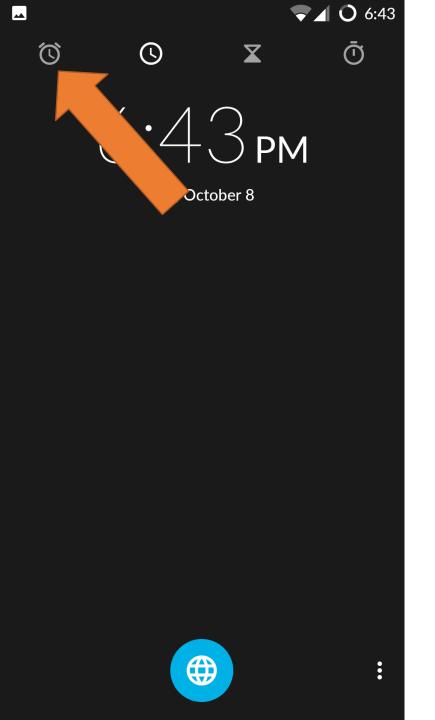
<u>Subtask 2:</u> Find a list of all apps



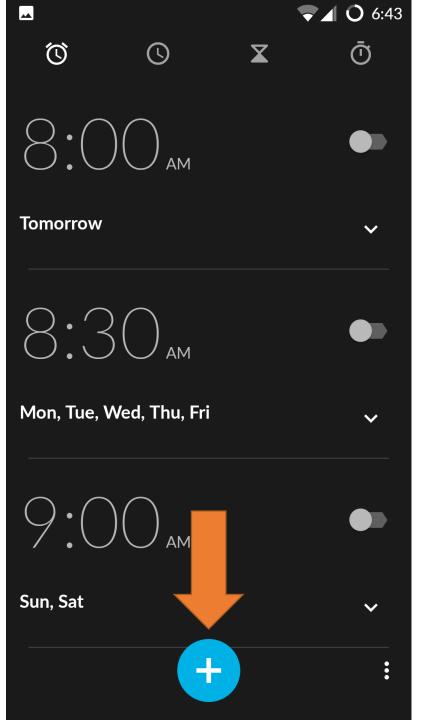
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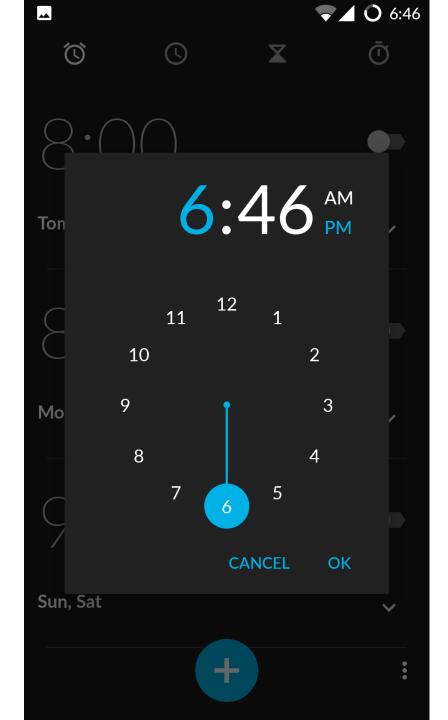


<u>Subtask 3</u>: Create a new scheduled alarm.



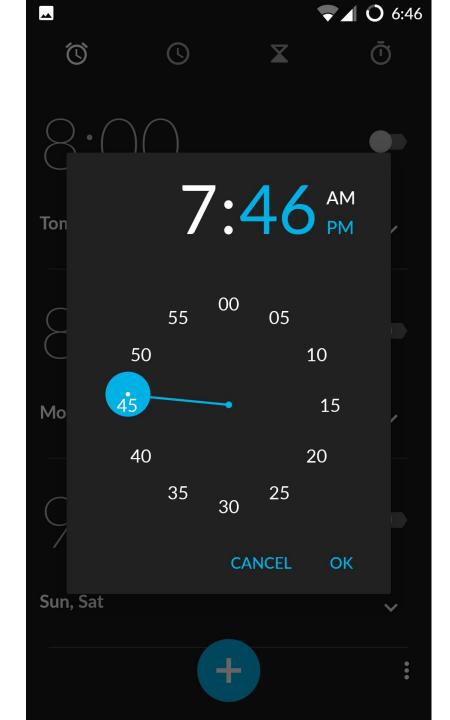
<u>Subtask 3</u>: Create a new scheduled alarm.

<u>Subtask 4</u>: Set the hour to 7



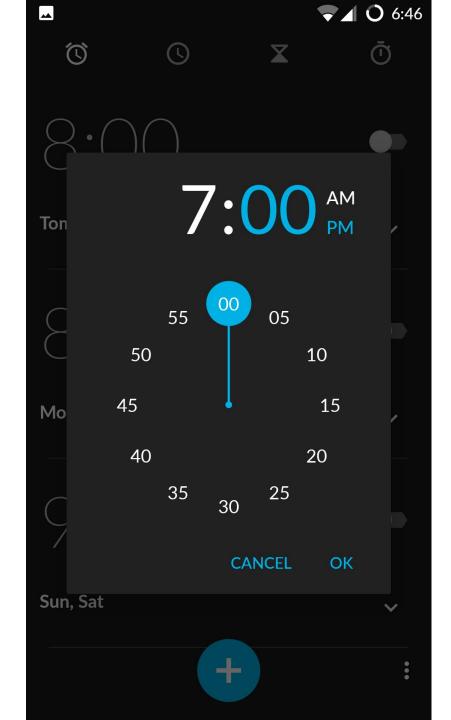
<u>Subtask 3</u>: Create a new scheduled alarm.

<u>Subtask 5</u>: Set minutes to 00

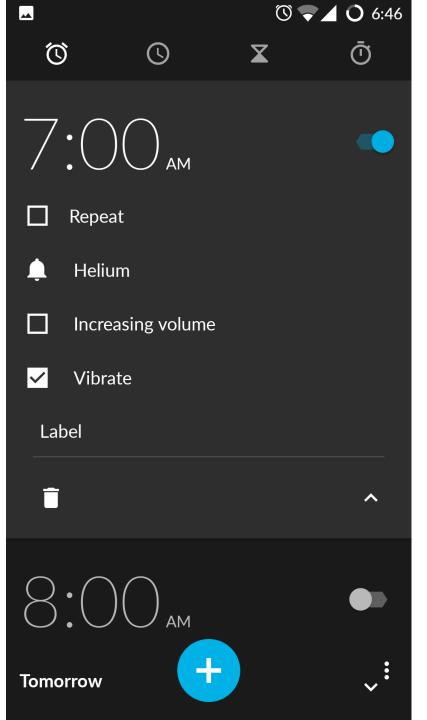


<u>Subtask 3</u>: Create a new scheduled alarm.

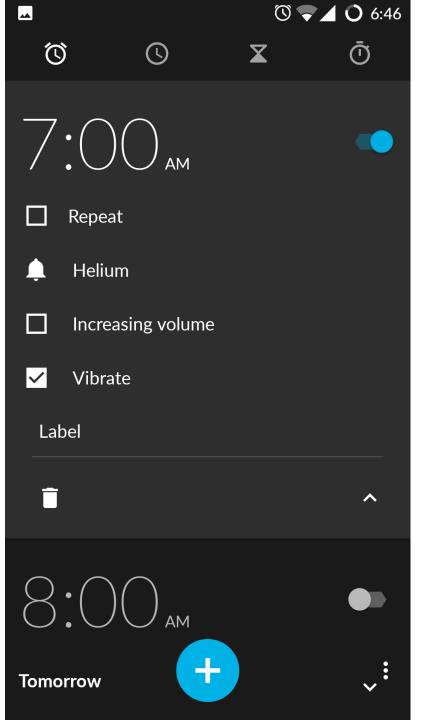
Subtask 6: Set to "AM"



<u>Subtask 7</u>: Check that the time has been correctly set and the alarm is now "on"

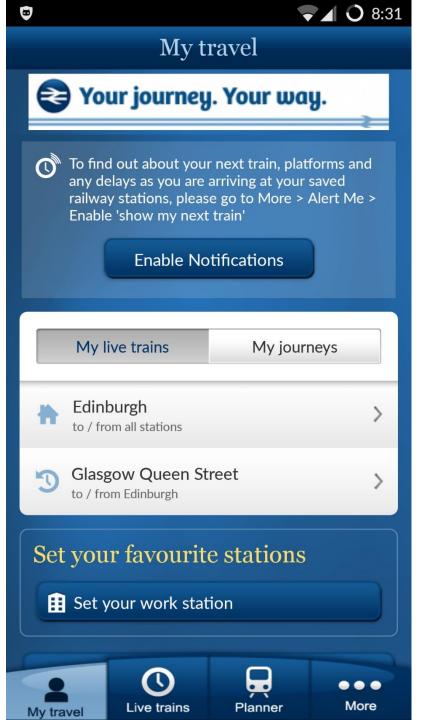


#### Task Completed!

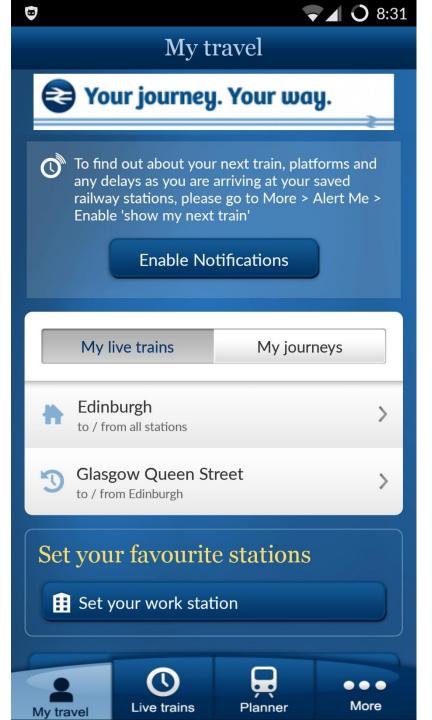


#### More complex example:

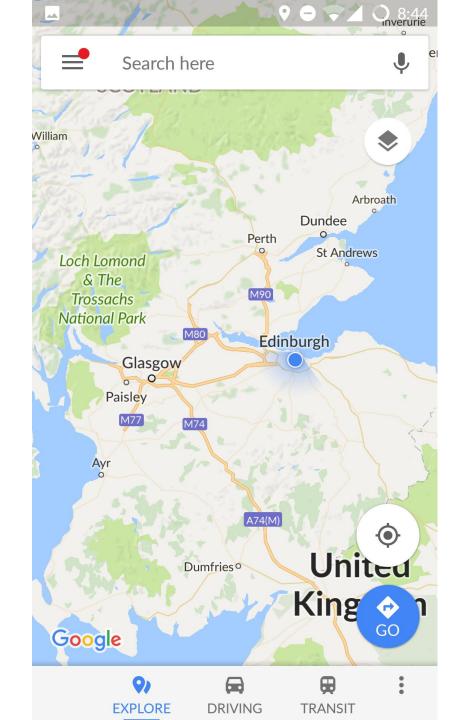
Task: Find the next train from Edinburgh Waverly to University of Strathclyde using the National Rail app.



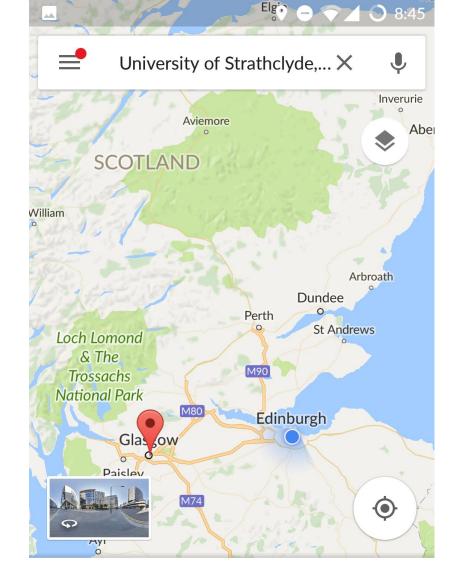
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<u>Subtask 2</u>: What is the nearest train station to the University of Strathclyde?



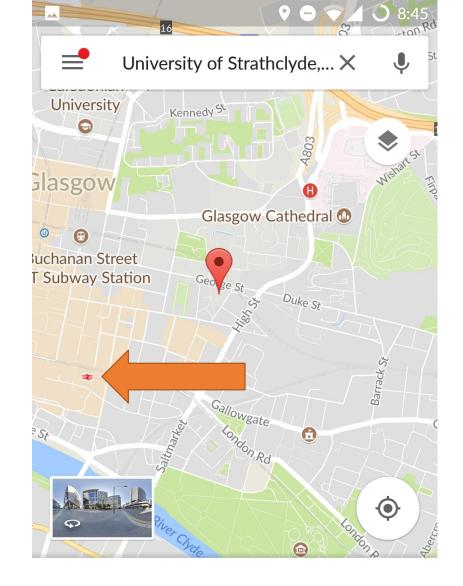
#### University of Strathclyde, The Technol...

**4.7** ★★★★★ (12) • **■** 1 hr 9 min

MORE INFO



<u>Subtask 2</u>: What is the nearest train station to the University of Strathclyde?



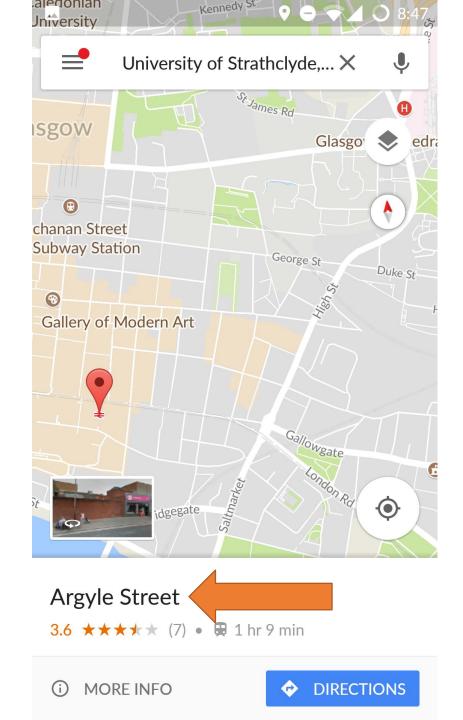
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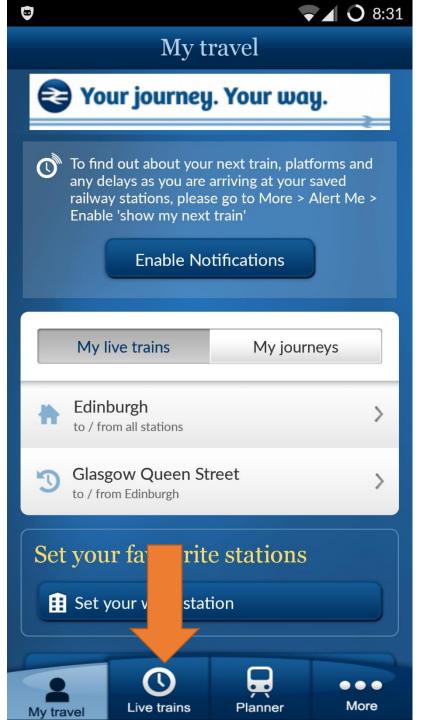
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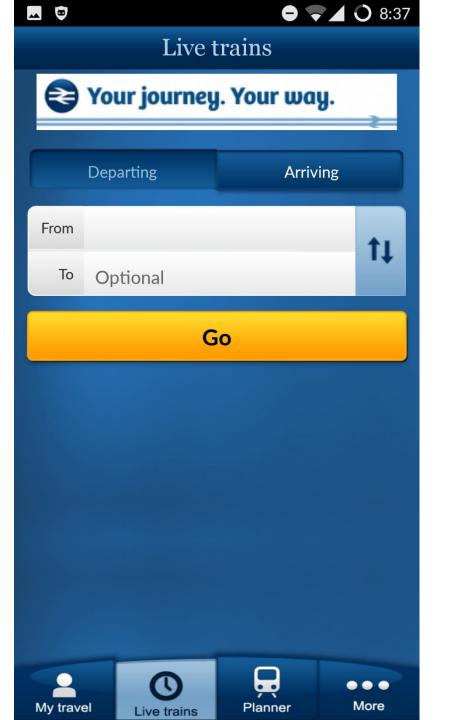
MORE INFO



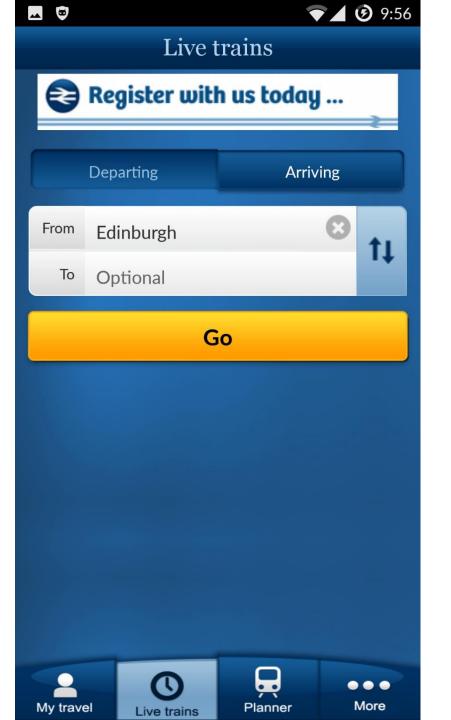
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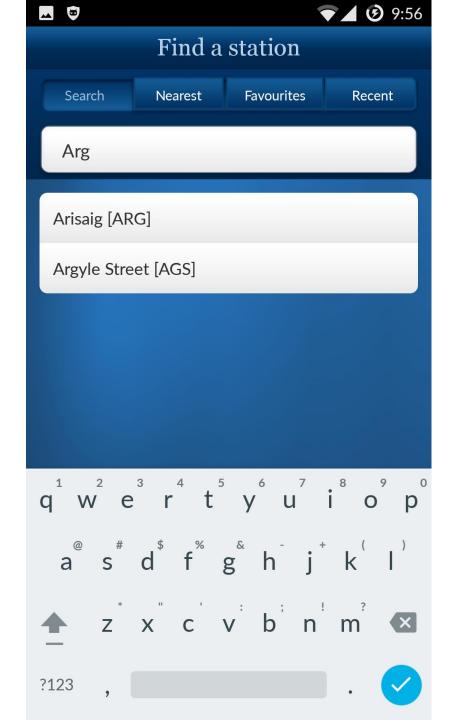






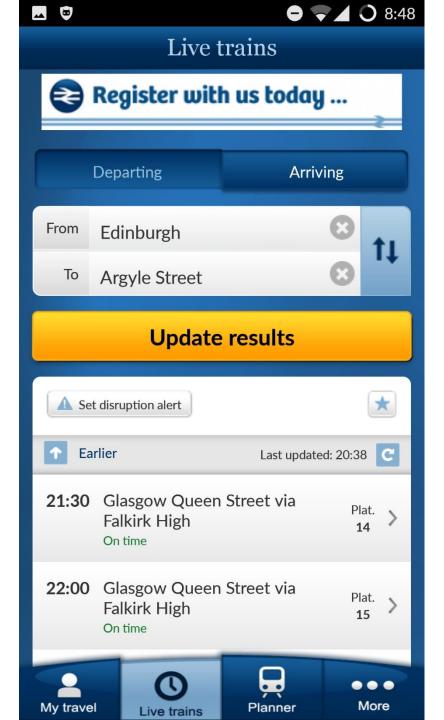








#### Yay! We found the train.



#### People interact with interfaces to accomplish tasks.

When designing user interfaces always ask yourself what people are going to do with it.

#### **Questions?**