





## Introducing the RUN app...

- RUN is a (fictional) mobile app for helping people in their running activities
  - O Al included!
  - screenshots from <a href="https://pair.withgoogle.com">https://pair.withgoogle.com</a>



#### **RUN**

4.5 ★ ★ ★ ★ ★ (1,348,231)

RUN is a running app that adapts to your fitness levels and designs personalized workouts to help you improve your running.



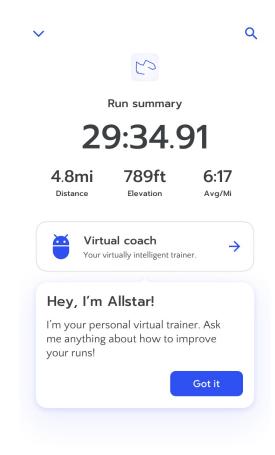
RUN

Download

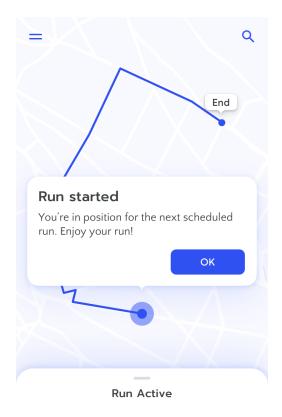
#### **Three Main Features**



**Suggesting Routes** 



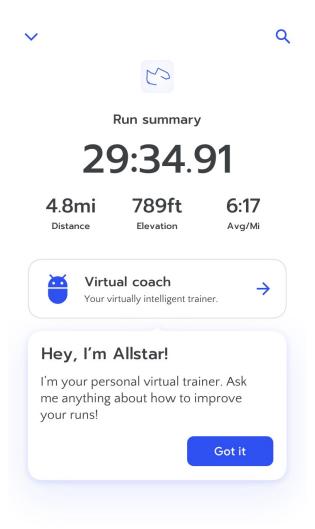
Al Coach (vocal, too)



80:00

Tracking Runs

### **Activity 1: Mental Models**



The "Virtual coach" is there to help, to improve people's runs.

- How might users think this works?
- When might it work better?
- When might it work more poorly?

Use the next 2 slides to answer, as a group

### **Activity 1: Mental Models**

Who are the users you have in mind?

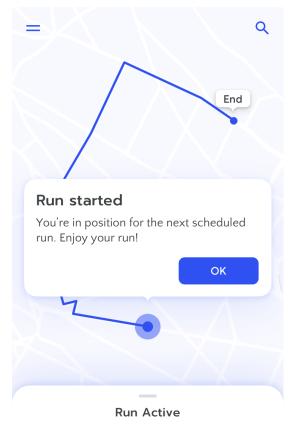
According to this group of users, how does the feature work?

#### **Activity 1: Mental Models**

According to this group of users, when it might work better?

... when it might work poorly? What can be changed in the app to compensate?

#### **Activity 2: Errors and Failures**



80:00

The "Run" app automatically start tracking a run once it detects contextual information.

- What happens when the prediction is wrong?
- How can the app recover from this?

Use the next 2 slides to answer, as a group

#### **Activity 2: Errors and Failures**

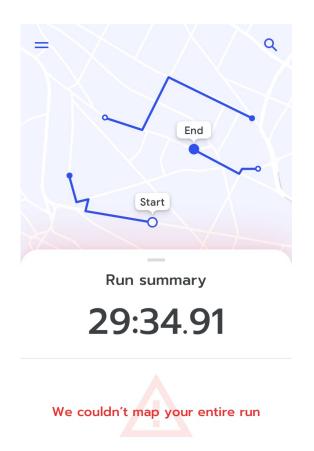
What is a way this feature could fail with low/no consequences?

What is a way this feature could fail with large negative consequences?

#### **Activity 2: Errors and Failures**

What technical and/or human methods may mitigate these failures/recover from them?

#### **Activity 3: Errors and Failures**

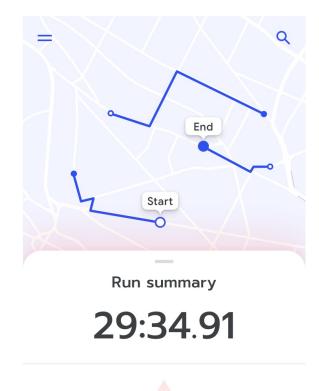


After a run, it may happen that the app is not able to track the entire path...

• How can we change the app design to handle this case?

Use the next slide to answer, as a group

## **Activity 3: Errors and Failures**



We couldn't map your entire run

Original Design

Improved Design

- Use the Guidelines for Human-Al Interaction on the previous three screenshots
  - https://www.microsoft.com/en-us/haxtoolkit/library/
- How many "issues" are you able to identify?
- How many guidelines is the app respecting?
- Do you spot any other problems?
  - o suggestion: the phone owner is <u>not</u> called Diane Garza

Use the next slides to answer, as a group

Al Design Guidelines	Violation/Everything ok? Where? [A Guideline may not apply]
G1 - Make clear what the system can do	
G2 - Make clear how well the system can do what it can do	
G3 - Time services based on context	
G4 - Show contextually relevant information	
G5 - Match relevant social norms	

Al Design Guidelines	Violation/Everything ok? Where? [A Guideline may not apply]
G6 - Mitigate social biases	
G7 - Support efficient invocation	
G8 - Support efficient dismissal	
G9 - Support efficient correction	
G10 - Scope services when in doubt	

Al Design Guidelines	Violation/Everything ok? Where? [A Guideline may not apply]
G11 - Make clear why the system did what it did	
G12 - Remember recent interactions	
G13 - Learn from user behavior	
G14 - Update and adapt cautiously	
G15 - Encourage granular feedback	

Al Design Guidelines	Violation/Everything ok? Where? [A Guideline may not apply]
G16 - Convey the consequences of user actions	
G17 - Provide global controls	
G18 - Notify users about changes	
NG - Other	

#### **Submission Instructions**

- One per team, choose a "submitter"
- Convert the set of slides in PDF and name it as follows:
  Lastname\_Firstname\_ex2.pdf (example: Monge\_Alberto\_ex2.pdf)
- Upload the resulting file to OwnCloud, at the following URL:
  <a href="https://baltea.polito.it/owncloud/index.php/s/UF4L9J1CtMp2fdD">https://baltea.polito.it/owncloud/index.php/s/UF4L9J1CtMp2fdD</a>
- By the end of the week (Feb 4, 2024)