Agile Software Development

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Assignment 2

Pacemaker 2.0

- Enhance the pacemaker application along 4 axis
 - 1. Deployment
 - 2. Features
 - 3. UX
 - 4. DX
- Top marks may be achieved by addressing (1) and any two of 2-4

Deployment

• 1.0

- The application is a standalone console process
- All IO is via standard in/out
- 2.0
 - Deploy the app to a service environment
 - Expose the app via an API
 - The API supports some protocol

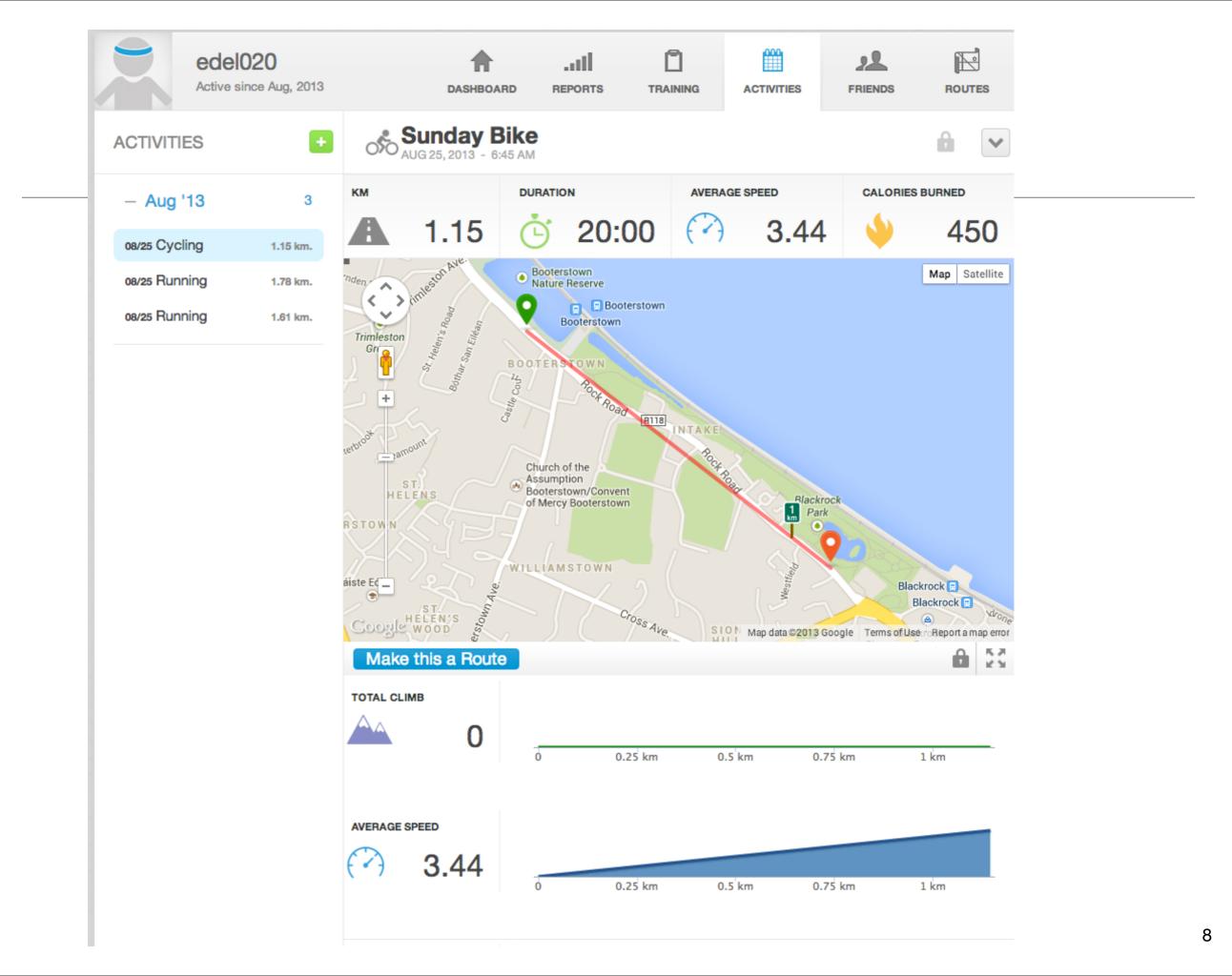
Deployment - Remaining Agile Labs

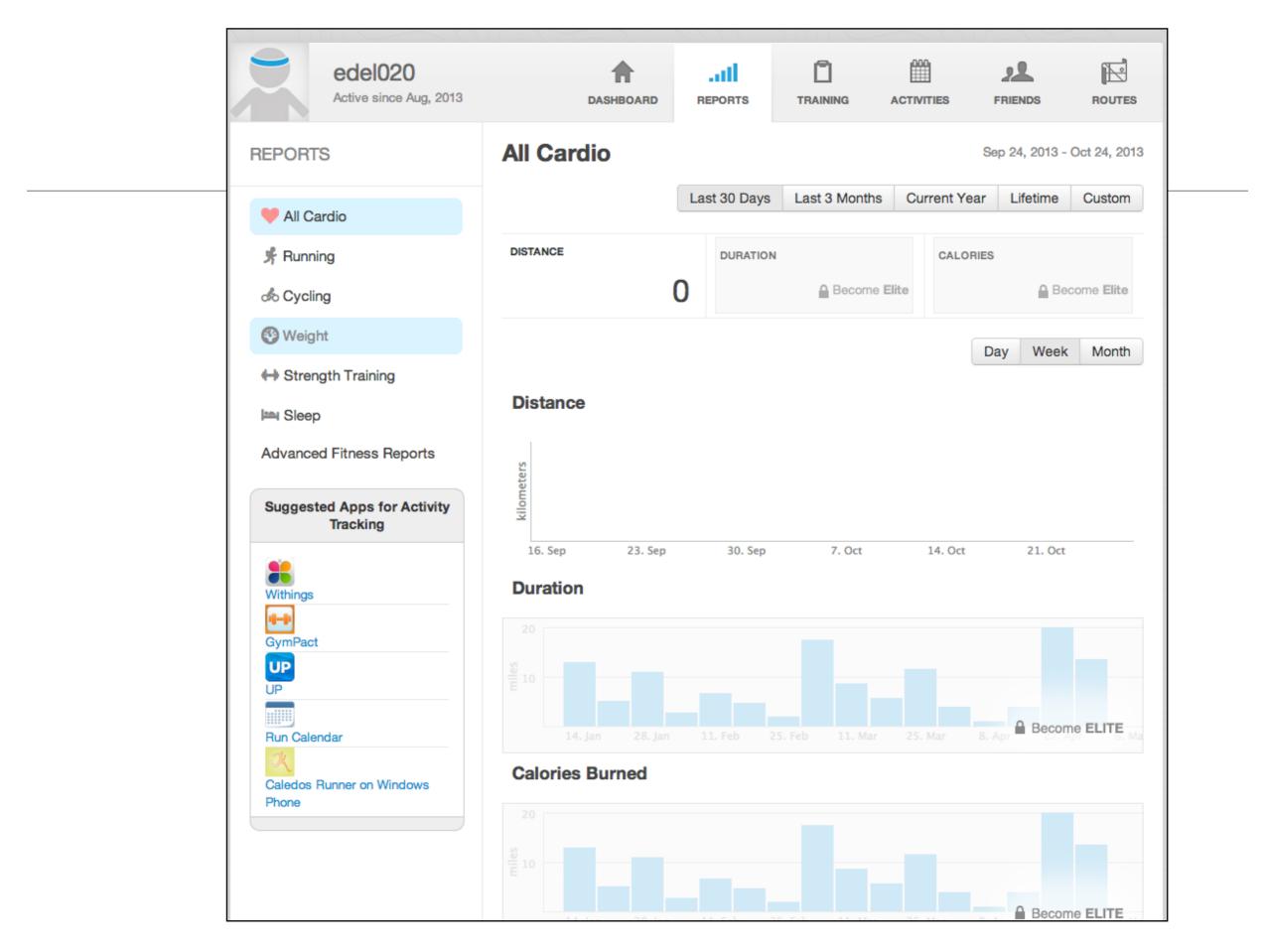
• Deploy V1 as REST Service (Play Framework)

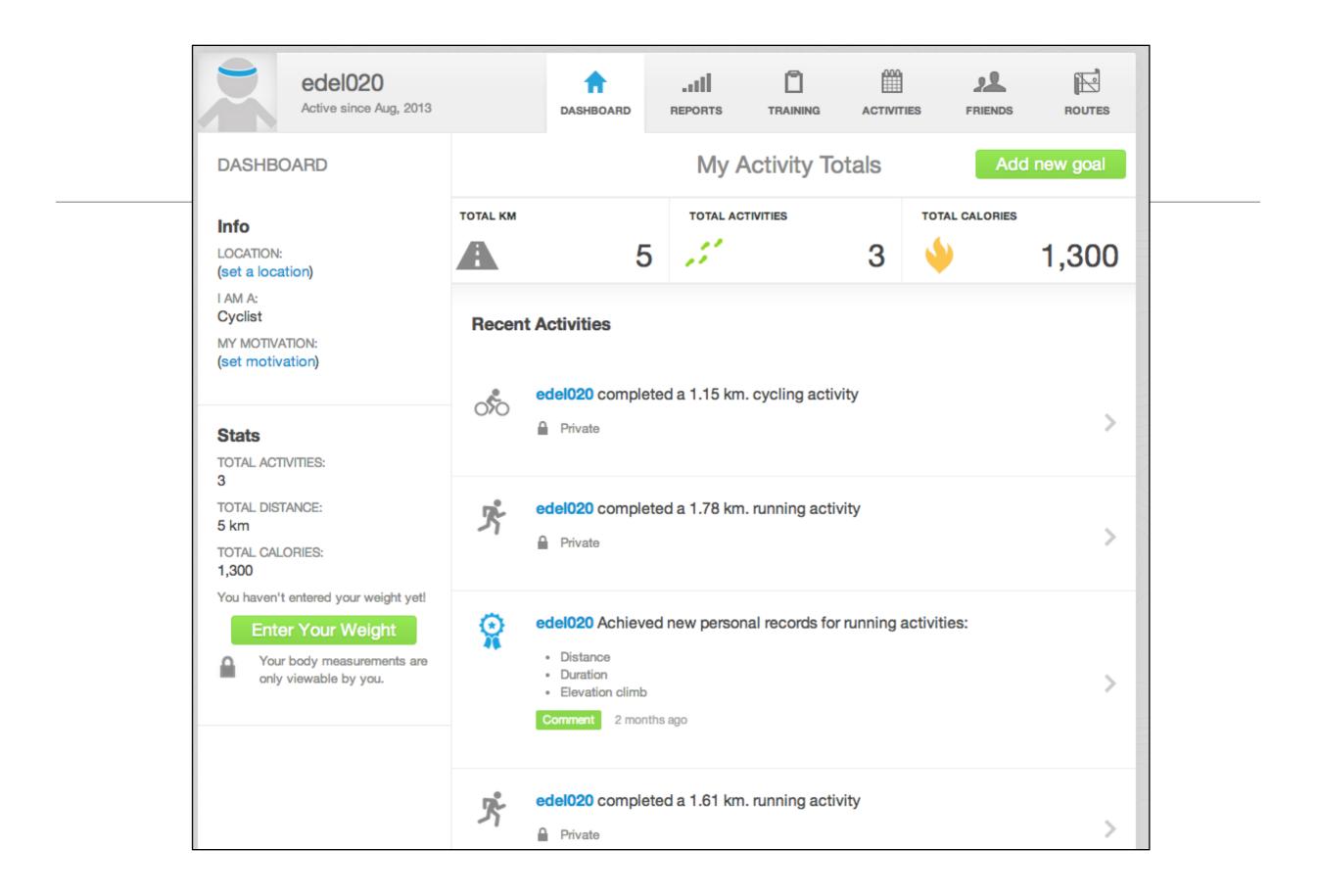
Features - Explore RunKeeper



	of Ac	tivity:					Duration:	Start Time:	
<		October 2013				>	00 : 00 : 00	09 : 25 AM \$	
Su	Мо	Tu	We	Th	Fr	Sa	Distance:	Calories:	
		1	2	3	4	5	km		
6	7	8	9	10	11	12	Average Heart Rate (optional):		
13	14	15	16	17	18	19	bpm	Or you can upload	
20	21	22	23	24	25	26		a heart rate file from your Polar Device.	
27	28	29	30	31				Polar Device.	
							How did it go?:		
ctiv	ity Vie	wabl	e By:						
	ity Vie ryone		e By:						
	-		e By:						
	-		e By:				I completed this activity v		
	-		e By:				I completed this activity v No one else		







http://developer.runkeeper.com/

	Health Graph								
	Documentation Support Blog								
	RunKeeper.								
4	Get Started								
	Documentation								
(Overview Registration & Authorization Users Profile Settings Fitness Activities Strength Training Activities Background Activities Sleep Nutrition Weight General Body Measurements Diabetes Measurements Personal Records Friends Comment Threads Root Resource Change Log Example API Calls HTTP Response Codes Error Messages								
ø	Plugins								
÷	Developer Tools								
	Official Business								

Health Graph App Ideas

Spectator app

Fitness-tracking smartphone app; allow users of the app to follow RunKeeper Live and RunKeeper Races Live users along their race or activity path from their mobile phones.

Food trackers

Use the nutrition end-point of the API to help populate users' daily nutrition intake.

Foursquare/Twitter/Facebook & RunKeeper Mashups

Use your imagination to create a mashup app!

Hypertension app

Website or device that enables people to track blood pressure over time.

Sleep disorder app

Website or device that allows users to track sleep, sleep quality, etc.

Diabetes app

Website or device to let users track Glucose, Hemoglobin, Insulin, and C-peptide levels.

Cholesterol app

Website or device to help people track weight, body fat percentage, LDL Cholesterol, and HDL Cholesterol.

Cycling-specific app

Website or device for cyclists that tracks speed, elevation distance, xPower watts, Average Power watts, Work kj, Bike Score, Daniels Points, Training Stress score, Daniels EqP watts, TRIMP Points 1 to 10 score, Cadence rmp, Aerobic Decoupling (%), and normalized wats (associate with GPS points).

Running smartphone apps

Apps that complement the RunKeeper mobile app by providing a unique feature set to users.

Health Graph widgets for users' websites and blogs

Widgets that could take a number of different forms; for example, a widget that lets users display their personal records on a running blog.

Games

We aren't game developers, but maybe you are (or want to be)! Create a game that lets users earn points or move up levels based on changes in their Health Graph.

Features - Remaining Labs

• No new features over 1.0!

User Experience (UX)

- Console (as in pacemaker 1.0)
- Simple Web
- Ajax web
- Smartphone App

UX - Remaining Labs

• Simple Web Interface (Play Framework)

Developer Experience (DX)

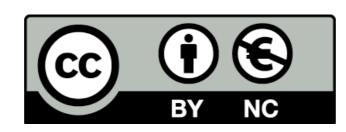
- Documentation
 - Documented API
 - Models
- TDD
 - TDD for REST APIs
 - Mock Objects
 - BDD

DX - Remaining Labs

- Models Visual Paradigm + Structure 101 Analysis
- TDD for REST APIs Test API using Play
- Test Doubles

Assignment Rubric for Assignment 2 (top marks deployment + any 2 others)

Standard	Deployment	Features	UX	DX
Baseline	REST (Local)	activities (see runkeeper)	Console	Rest Tests
Good	REST (Deployed)	reports (see runkeeper)	Console - asciiart	Test Doubles
Excellent	REST (Secured)	friends (see runkeeper)	Simple Web	Models
Outstanding	REST (2 x cloud)	dashboard (see runkeeper)	Web Ajax or App	API Documentation



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