

Second Iteration Demo

1. date and time, and any challenges that arose

Tuesday, December 4, 2018

- challenges: none.

2. use cases that were demonstrated (highlight changes since first iteration)

- *vision impaired (text-to-speech)*

We added support for text-to-speech—lacking in the first iteration—by linking to google’s text-to-speech API. You may see text-to-speech working by running the tests found in the /test folder.

- *remote communication (remote server)*

A remote server was added—first iteration used a local server—so that two people may talk to each other by running the client on their own computer.

- *persistent account (database storage)*

A postgres database was added—no form of persistent storage in first iteration—so that chat logs may be saved between sessions.

3. specific CI mechanisms shown during demo

We used the same CI mechanisms from the previous iteration (see below) and added the code coverage tool of *jacoco. Jacoco is integrated into our system via our POM file, and is triggered on the maven verify command. We were initially reporting coverage in the low 40s, but have pushed that number ~50%.

Code Coverage:	Jacoco
Version Control:	Github
Build Tool:	Maven
Continuous Integration:	TravisCI
Project Management:	Trello
Coding Style:	Google Java
Static Analysis:	PMD
Unit Testing:	Junit

jacoco.exec > ada

ada

Element	Missed Instructions	Cov.	Missed Branches	Cov.	Missed	Cxty	Missed	Lines	Missed	Methods	Missed	Classes
AdaClient	<div><div></div></div>	0%	<div><div></div></div>	0%	13	13	62	62	3	3	1	1
PostgreSQL_queryHistory	<div><div></div></div>	0%	<div><div></div></div>	0%	3	3	20	20	2	2	1	1
TCPHost	<div><div></div></div>	74%	<div><div></div></div>	79%	5	16	24	62	1	4	0	1
PostgreSQL_createUser	<div><div></div></div>	81%	<div><div></div></div>	50%	4	9	9	55	0	3	0	1
AdaServer	<div><div></div></div>	0%	<div><div></div></div>	0%	4	4	13	13	3	3	1	1
NetworkSocketClient	<div><div></div></div>	80%	<div><div></div></div>	100%	1	8	15	39	1	5	0	1
PostgreSQLJDBC	<div><div></div></div>	72%	<div><div></div></div>	n/a	1	2	4	21	1	2	0	1
NetworkSocketClient_Test	<div><div></div></div>	32%	<div><div></div></div>	n/a	3	5	6	9	3	5	0	1
NetworkSender	<div><div></div></div>	72%	<div><div></div></div>	50%	5	9	8	22	1	4	0	1
PostgreSQL_insertChat	<div><div></div></div>	78%	<div><div></div></div>	n/a	0	2	3	23	0	2	0	1
TCPHost_Test	<div><div></div></div>	50%	<div><div></div></div>	100%	3	6	6	11	3	5	0	1
DB_Test	<div><div></div></div>	95%	<div><div></div></div>	100%	0	8	6	89	0	6	0	1
NetworkReader	<div><div></div></div>	81%	<div><div></div></div>	66%	3	7	7	19	1	4	0	1
Messages_inputIntegration_Test	<div><div></div></div>	95%	<div><div></div></div>	75%	1	6	2	20	0	4	0	1
TCPHost_NetworkHandle	<div><div></div></div>	100%	<div><div></div></div>	n/a	0	1	0	1	0	1	0	1
Total	578 of 1,651	64%	43 of 92	53%	46	99	185	466	19	53	3	15

Coverage: jacoco.exec				
64% classes, 52% lines covered in package 'ada'				
Element	Class, %	Method, %	Line, %	Branch, %
texttospeech	50% (1/2)	66% (4/6)	58% (18/31)	0% (0/2)
AdaClient	0% (0/1)	0% (0/2)	0% (0/61)	0% (0/20)
AdaServer	0% (0/1)	0% (0/2)	0% (0/12)	0% (0/2)
NetworkReader	100% (1/1)	75% (3/4)	63% (12/19)	66% (4/6)
NetworkSender	100% (1/1)	75% (3/4)	63% (14/22)	50% (5/10)
NetworkSocketClient	100% (1/1)	80% (4/5)	61% (24/39)	100% (6/6)
PostgreSQL_createUser	100% (1/1)	100% (2/2)	83% (46/55)	50% (6/12)
PostgreSQL_insertChat	100% (1/1)	100% (1/1)	86% (20/23)	100% (0/0)
PostgreSQL_queryHistory	0% (0/1)	0% (0/1)	0% (0/19)	0% (0/2)
PostgreSQLJDBC	100% (1/1)	100% (1/1)	85% (17/20)	100% (0/0)
TCPHost	66% (2/3)	80% (4/5)	61% (39/63)	79% (19/24)

4. link to repository (tag revisions shown in demo)

<https://github.com/LooseScruz/ada>