

P.E.T.

Personal Emotion Trainer

Team X (pronounced Team X)

Executive Summary

Introduction	What is the P.E.T? Who is it for? Why do they need it?
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Version I	Current functionality of P.E.T with a demo
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Testing	How did we test our code?
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What's Next?	What to expect in Version II and III
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The Personal Emotion Trainer

Who is the P.E.T for?

What function does P.E.T provide?

How does the P.E.T provide this function?



Who?

Autism Spectrum Disorders

PDD—NOS

Impaired social interaction

or

Impaired communication

or

Restricted repetitive and stereotyped patterns or behaviors, interests and activities

AUTISTIC DISORDER

Impaired social interaction

and

Impaired communication

and

Restricted repetitive and stereotyped patterns or behaviors, interests and activities

ASPERGER'S DISORDER

Impaired social interaction

and

Normal communication/
language development

and

Restricted repetitive and stereotyped patterns or behaviors, interests and activities

What?



https://i1.wp.com/eilab.ca/wp-content/uploads/2014/09/Reading-facial-expressions_article.jpg

How?

- Emotion recognition quiz
- Fun, safe way to learn
- Saves user progress
- Increasing difficulty

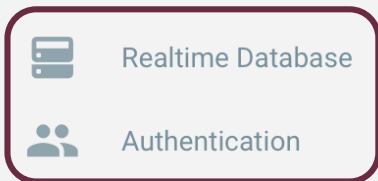


Version I - Implemented Features

- UI Design and Navigation
- User Authentication
- Database Integration
- Gameplay Mechanics
- Gameplay Tutorial

Firebase SDK

DEVELOP



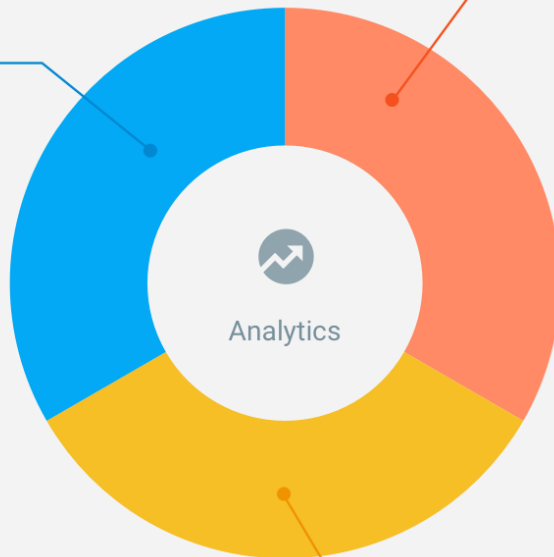
Cloud Messaging

Storage

Hosting

Test Lab

Crash Reporting



GROW

- Notifications
- Remote Config
- App Indexing
- Dynamic Links
- Invites
- AdWords

EARN



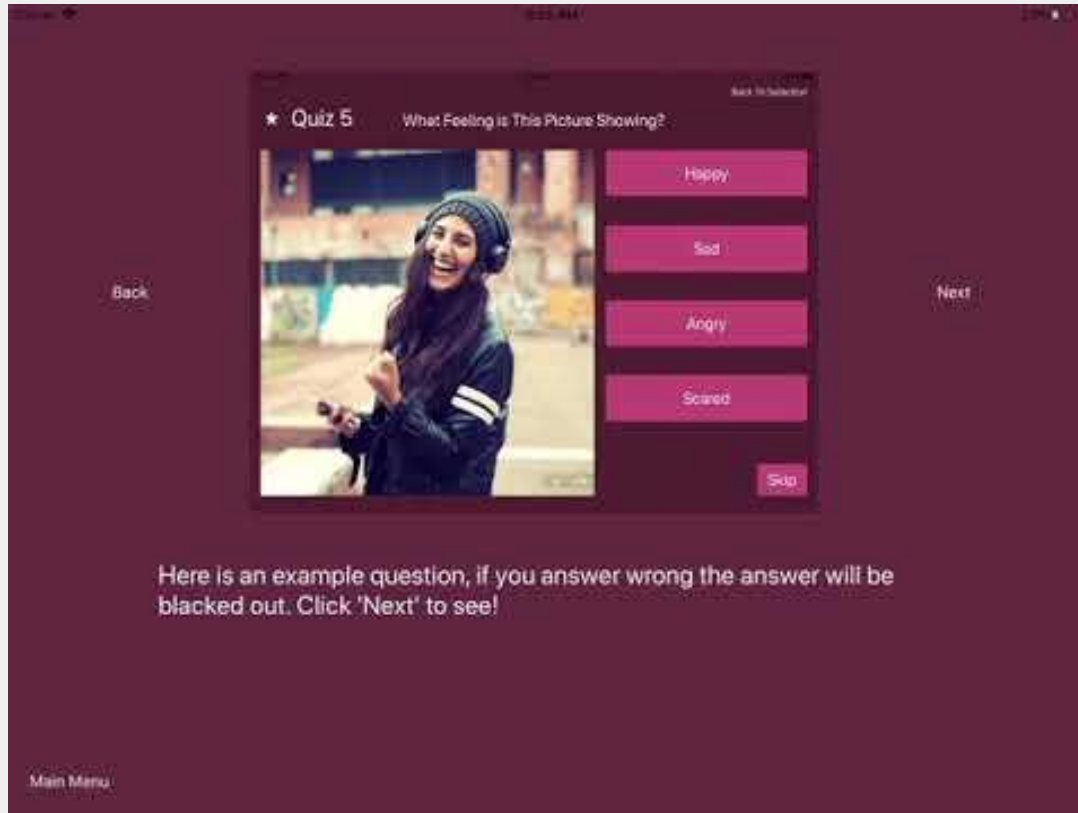
Model Implementation



Gameplay Mechanics



Demo



<https://www.youtube.com/watch?v=YQCA5Blvrkw&feature=youtu.be>

Unit and Integration Testing

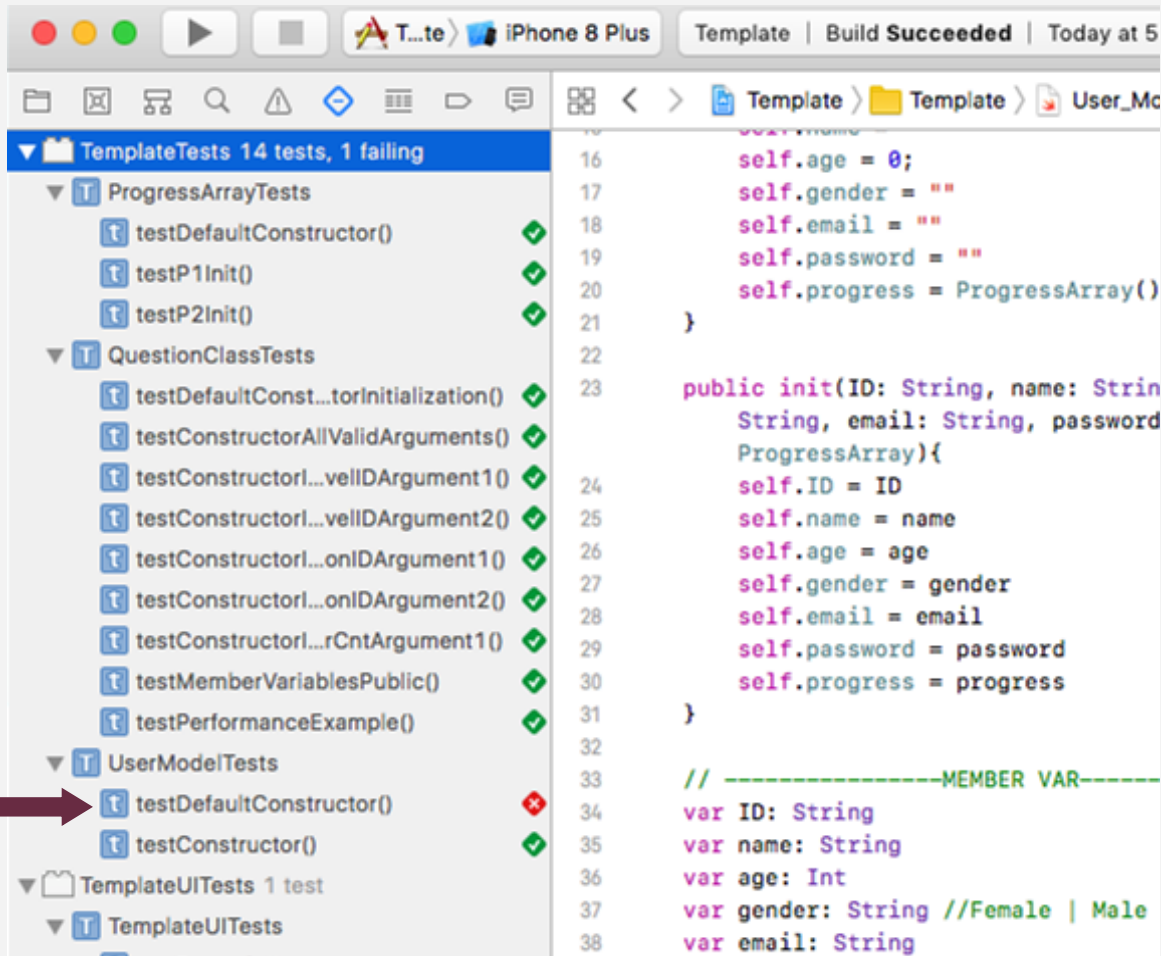
White Box Unit Testing with XCTest Framework

Manual Integration Testing Using XCode Simulator



XCTest

Test Failed

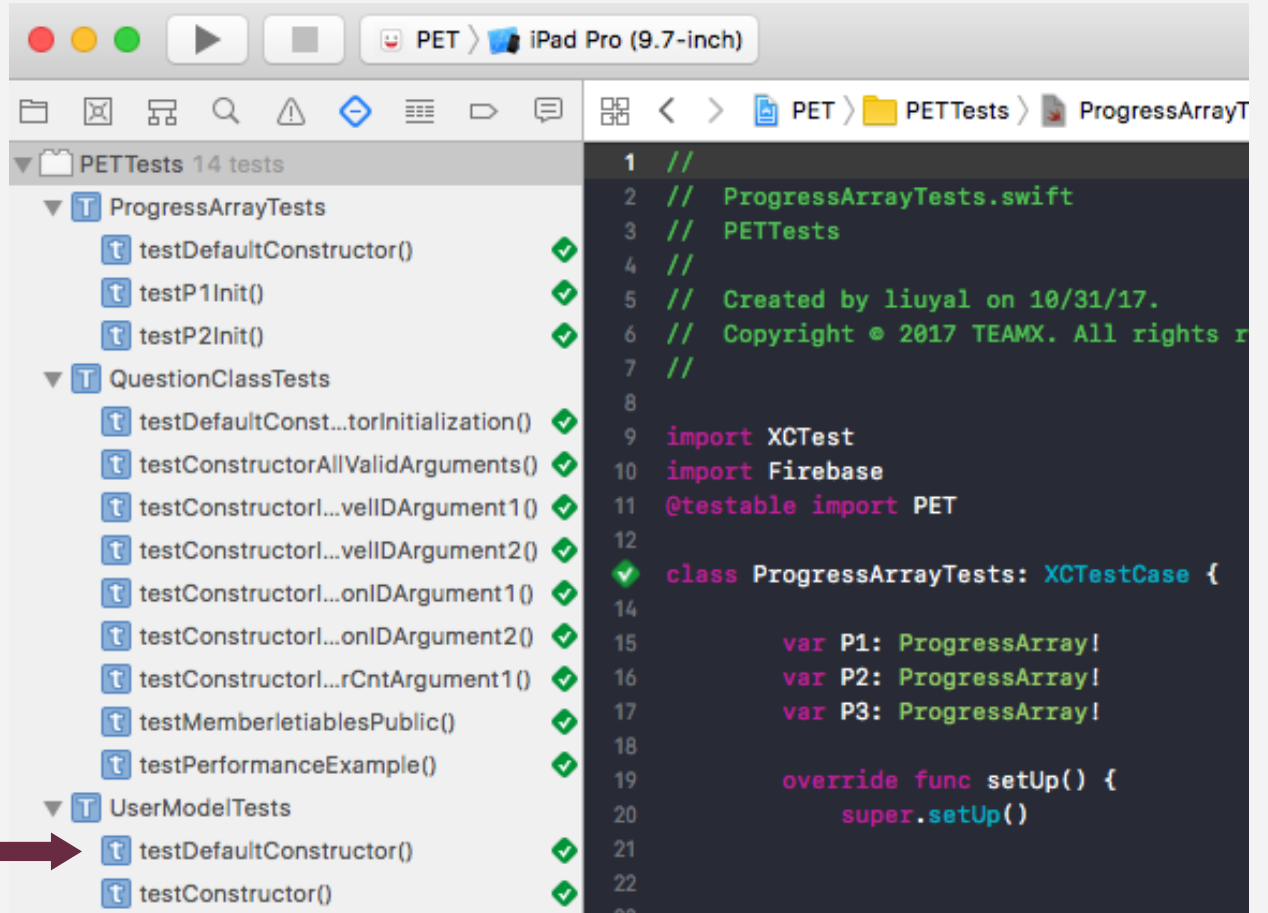


TemplateTests 14 tests, 1 failing

- ProgressArrayTests
 - testDefaultConstructor() ✓
 - testP1Init() ✓
 - testP2Init() ✓
- QuestionClassTests
 - testDefaultConst...torInitialization() ✓
 - testConstructorAllValidArguments() ✓
 - testConstructorl...vellIDArgument1() ✓
 - testConstructorl...vellIDArgument2() ✓
 - testConstructorl...onIDArgument1() ✓
 - testConstructorl...onIDArgument2() ✓
 - testConstructorl...rCntArgument1() ✓
 - testMemberVariablesPublic() ✓
 - testPerformanceExample() ✓
- UserModelTests
 - testDefaultConstructor() ✗
 - testConstructor() ✓
- TemplateUITests 1 test
 - TemplateUITests

```
16     self.age = 0;
17     self.gender = ""
18     self.email = ""
19     self.password = ""
20     self.progress = ProgressArray()
21 }
22
23 public init(ID: String, name: String, email: String, password: String, progress: ProgressArray){
24     self.ID = ID
25     self.name = name
26     self.age = age
27     self.gender = gender
28     self.email = email
29     self.password = password
30     self.progress = progress
31 }
32
33 // -----MEMBER VAR-----
34 var ID: String
35 var name: String
36 var age: Int
37 var gender: String //Female | Male
38 var email: String
```

Tests Passed



Future Versions

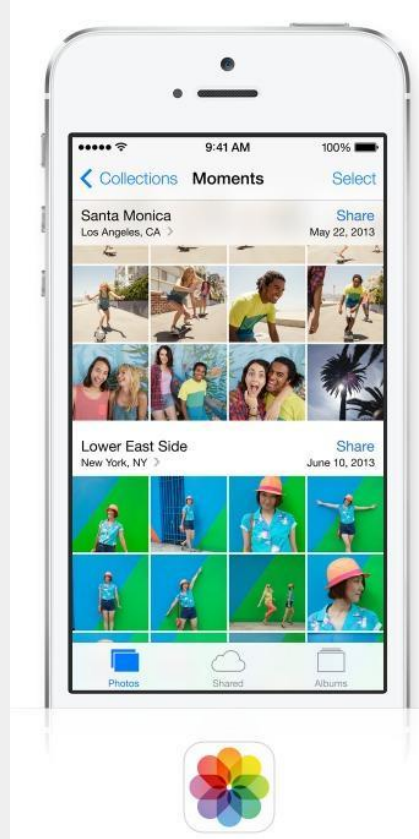
- Version II

- Custom Question Maker
- UI Improvements
- Expand question capacity
- Camera Integration
- Photo Gallery Integration

- Version III

- Emotion Recognition
(Affectiva) SDK Integration
- Minor updates and improvements


Version II - Camera/Photo Gallery Integration



Version II - Custom Question Maker

●●●● PROTO.IO 04:05 90%

Question Maker



Upload Image

Question Prompt:

Enter a prompt for the question

Answer:

Select the answer from the emotion library

Happy

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Sad

>

Angry

>

Worried

>

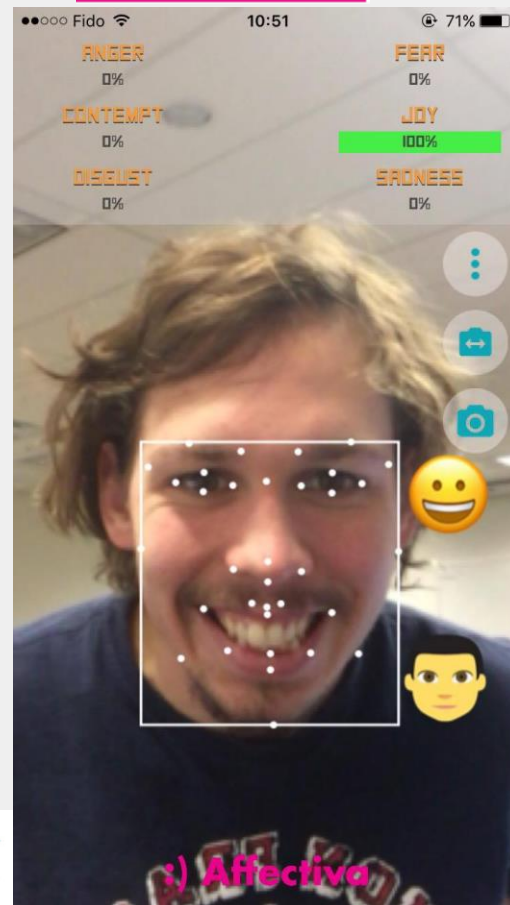
Back

Create Question

Version III - Emotion Recognition with

:) Affectiva

- A free Emotion recognition SDK
 - World's Largest Emotion Database
 - Easy to Integrate
 - Real-time Tracking of Facial Expressions



Thank You

Questions?

Backup Slides

