

Inferring Product Innovation Through Similarity Computation

P01A



Team's Roles

MINGCUN HUANG: Manager, Doomsayer

PEIQI HUANG: Tracker, Customer

YUHE JIANG: Programmer, Tester

YANXIAO LI: Programmer, Tester

ZIYUAN LIU: Programmer, Tester

KESHAV AGARWAL: Programmer, Tester



Project Introduction

Project idea: identify products that are related to our target product and then determine what new features can be imported.

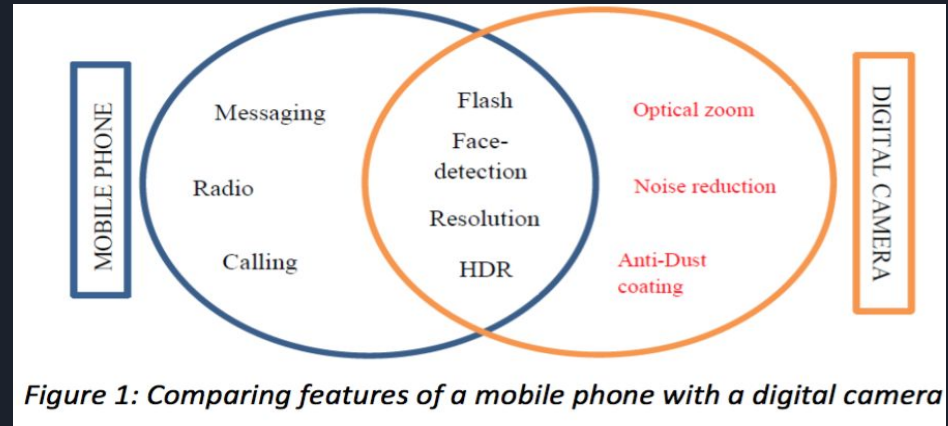
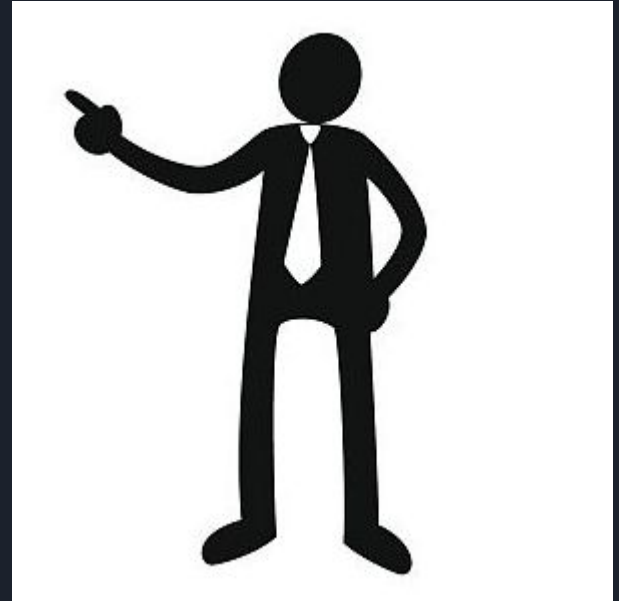


Figure 1: Comparing features of a mobile phone with a digital camera



User Story

- Product developer
- Database manager



Acceptance test

Novel features are correctly classified and displayed as a feature list.	Pass	
Features in the feature list are correctly divided into evolution list, revolution_1 feature list, revolution_2 feature list.	Pass	
Only the features of the product whose cosine similarity values are within the threshold will be classified accordingly.	Pass	

Monireh Alsadat Mirtalaie

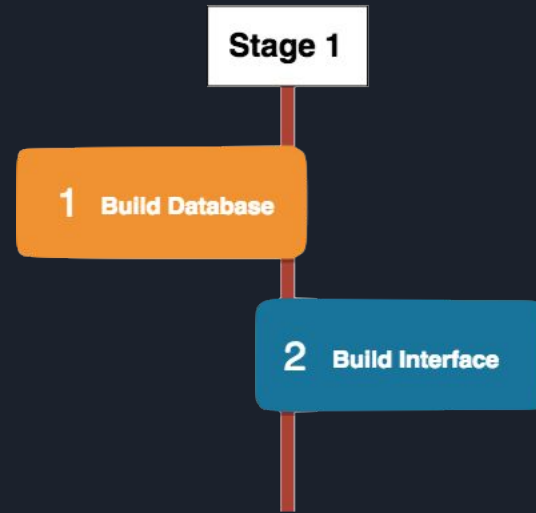
5/10/2018



Project Overview

Using XP methodology: Small development cycle and frequent release

- php and Wampserver is used for building the database and interface

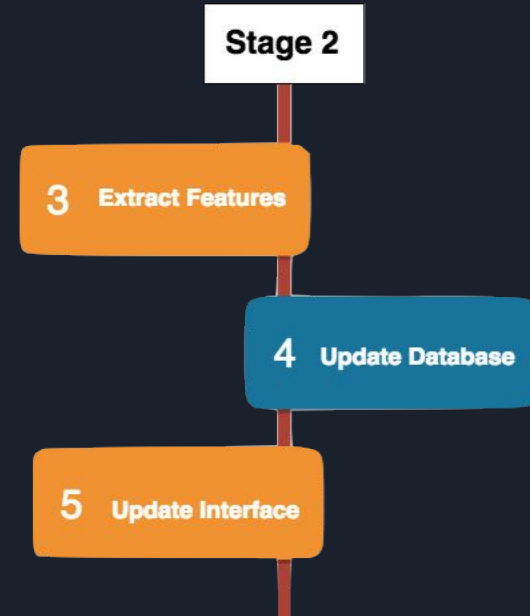




Project Overview

Using XP methodology: Small development cycle and frequent release

- Python used for feature extraction
- Output csv files are uploaded to database
- Interface are modified to allow user set thresholds.

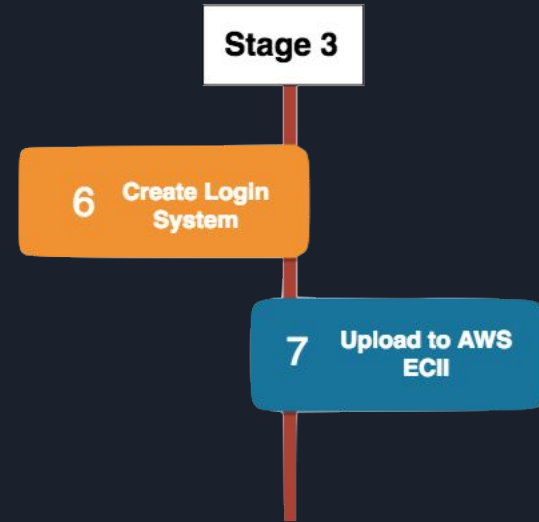




Project Overview

Using XP methodology: Small development cycle and frequent release

- Only user registered are allowed to use the system
- Our website is available online!





XP Methodology

- Agile Software Development

- Whole team
 - Weekly group meeting: Manager
 - Weekly meeting with client: Customer
 - project management: Bitbucket & Google drive & Slack
- Test-Driven Development: Tester
- Pair Programming: Programmer

XP Methodology

- Weekly meeting

 Branches

 Pull requests

 Pipelines

 Deployments

 Issues

 Wiki

 Downloads

 Boards

Week9 agenda.docx

meeting w11.pdf

Learning material.pdf

meeting w10.pdf

Acceptance+test.docx

Week8 agenda.docx

meeting w8.pdf

image001.png

meeting w7 .pdf

Week7 agenda.docx

XP methodology

- Issue tracker

#40: Improving coding structure of python file - lev.py			RESOLVED	MIngcun	2018-10-02	3 days ago
#41: Create a login page			RESOLVED	Keshav Agarwal	2018-10-14	3 days ago
#39: Improving coding structure of python file - cotim.py			RESOLVED	YUHE JIANG	2018-10-02	2018-10-08
#35: Enhance the coding structure of source code of Interface forth page			RESOLVED	YUHE JIANG	2018-09-27	2018-10-08
#36: Enhance the coding structure of source code of Interface fifth page			RESOLVED	Keshav Agarwal	2018-09-27	2018-10-03
#26: Develop 5 new user stories			RESOLVED	PEIQI HUANG	2018-09-17	2018-10-03
#33: Enhance coding structure of the source code of Interface second page			RESOLVED	Yanxiao Li	2018-09-27	2018-10-03
#31: Develop user acceptance test			RESOLVED	MIngcun	2018-09-27	2018-10-03
#38: Improving coding structure of python file - act.py			RESOLVED	Yanxiao Li	2018-10-02	2018-10-03
#34: Enhance the coding structure of the source code of the interface thrid page			RESOLVED	Ziyuan liu	2018-09-27	2018-10-03
#37: Improving coding structure of pyprod.py			RESOLVED	MIngcun	2018-10-02	2018-10-02

XP methodology

- Wiki

Wiki

project /

report

- Home
- Individual Report 440589727
- Individual Report 460281951
- Individual Report 460484552
- Individual report 460008945
- Individual report 460306977
- Individual report 460467599
- Individual report
- XP understanding
- acceptance test
- group report
- user story uploaded
- user story

Wiki

project / Home

View History Edit

WEEK 1

- Weekly goal**
Select projects and form project teams.
- Weekly Contribution**
A preliminary understanding of the project objectives and the knowledge and skills required to complete the project.
- Documentation**
No documentation upload this week.

WEEK 2

- Weekly goal**
Meet with team members and communicate face-to-face with customers for the first time. Determine the project objectives.
- Weekly Contribution**
Complete the project group details and contract in class and make an appointment to meet with the client. Learn the main theory and role assignment of Extreme Programming.
- Documentation**
Project group details and contract
Extreme programming understanding



Usability Test

- Example

Persona: P2 is a student doing IT related bachelor degree, he is interested in electronic devices and has creative ideas for its revolutions.]

Task: User need to successfully select reference product and related product that will have a comparison in the future.

Time used: 1 minute 2 seconds.

Webpage	Use correctly?	Think Loud
First page – select reference product	Yes	The participant selected the item and said why there is only one product to select.
Second page – first level category selection of the related product	Yes	The participant selected “Electronic” and “Food, Beverages & Tobacco” and was wondering if he could select multiple categories.
Third page – second level category selection of the related product	Yes <input type="checkbox"/>	User selected “Mobile” from “Electronic” and slid down to select “Food Items” from “Food, Beverages & Tobacco” then clicked next.
Fourth page – Third level category selection of the related product	Yes	“Samsung Galaxy S III” and “Snack Foods” were chosen from the given list and next button was pressed

Client Interaction



Monireh Alsadat Mirtalaie <Monireh.Mirtalaie@student.adfa.edu.au>

Mon 20/08, 7:15 PM



description of module 1...

15 KB



Download Save to OneDrive - The University of Sydney (Students)

Dear P01A group

Thanks for the email and meeting. About the video which you sent, is the “back” button just available for the last screen? Can we have it for the previous levels as well?

As you may know, we also need one more screen which enables the user to select the model for each selected product.

I attached the project’s description to this email. Please do let me know if you have any questions.

Best Regards,

Monir



Good idea! But I should see the results after 70% of matching. Can you please go ahead with your idea and send me the results? If it ends up with too many errors, we will apply the exact match.

For example, if in the mobile phone we were able to find Flash> Flash mode, store Flash > flash modes > fill in mode , Flash > flash modes > fill in mode (children of flash mode) as Evolution. It cannot be a revolution anymore.

Flash > flash modes > fill in mode
Flash> flash modes > flash off mode

Regards,
Monir

...



Monireh Alsadat Mirtalaie <Monireh.Mirtalaie@student.adfa.edu.au>

Fri 24/08, 2:16 PM



I don't think so! Please note the comma should be selected as the delimiter. So each child (level 3) is representing only one feature and it can be mentioned one time as either evolution, rev 1 or rev2.

Regards,
Monir

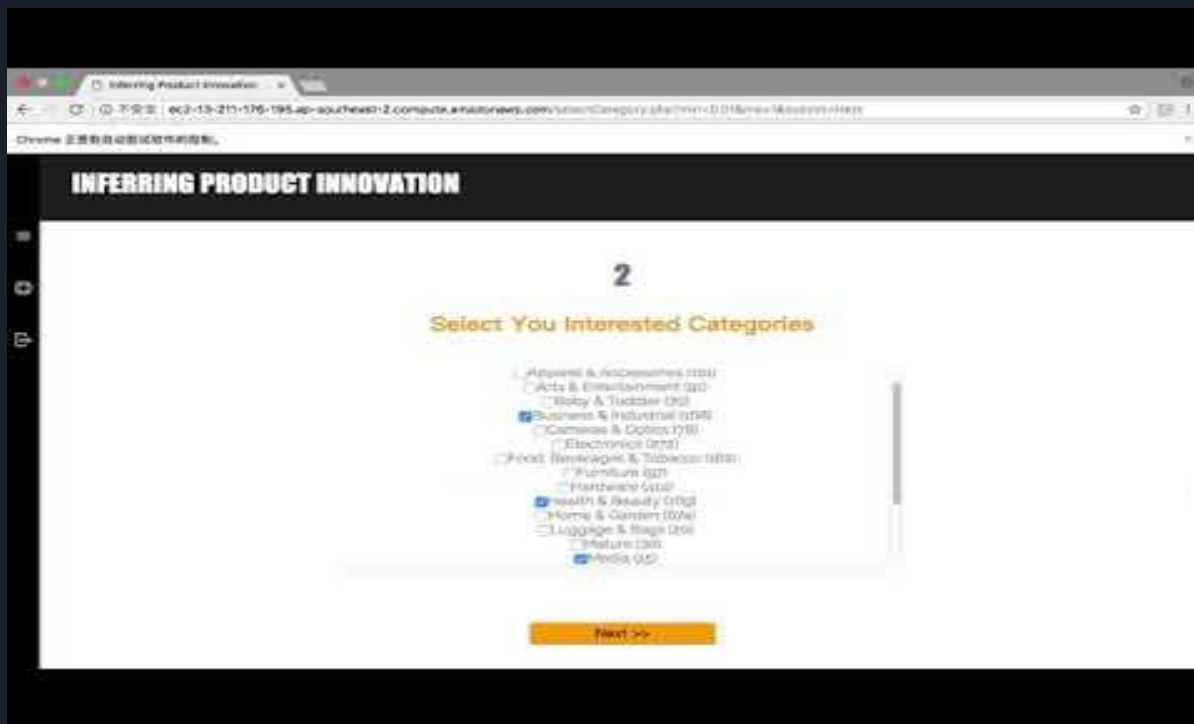
...

Client Endorsement

The following activities are jointly conducted by both the Project Client and the Project Team	Completed (Y/N) Comments
Project review	
<input checked="" type="checkbox"/> Key stages completed, key milestones reached <input checked="" type="checkbox"/> Deliverables meet requirements and specifications (and agreed changes)	Y
Handover complete for all project and product components, final sign-off issued by Project Client and Project Team	
<input checked="" type="checkbox"/> Project documentation (plans, schedules, requirements, specifications, communications, wikis, repositories) stored, transferred to and accepted by Project Client <input checked="" type="checkbox"/> Product documentation (programs, product manuals) stored, transferred to and accepted by Project Client	Y
<input checked="" type="checkbox"/> All activities in the project are considered to have been completed	Y

Description	Suggested Mark	Notes and comments
<p>Demonstration of actual working system and quality assurance of deployed system: the system is running effectively to implement the nominated user stories. Acceptance tests and results conform to expectation.</p>	<p>5 /5</p>	
<p>Satisfaction of overall group process, and communication: the group is well organized, progresses smoothly and communicated initiatively with clients.</p>	<p>5 /5</p>	
<p>Grand Total</p>	<p>10 /10</p>	

Uni-test Demo



Thank You!

