COMP-SCI 5551 (FS16) - Advanced Software Engineering

Project Presentation (Dec 6th, 2016)



Team 1

Joshua Neustrom (39) Yunlong Liu (25) Chen Wang (58) Dayu Wang (59)

1

Problem Intended to Solve - Can college students manage their money wisely?

Problem 1: A "millionaire" at the beginning of the month A "pauper" at the end of the month.

Problem 2: Credit Card Abuse

Credit Card Debt of Graduating College Student

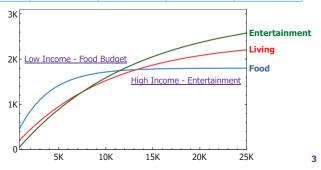
\$3,000

Problem 3: Never record his/her expenses.

Never be aware of his/her bad spending habits

• Budget Generation - Fitting Curves - Core Philosophy

$y = A \cdot B^{min-x} + max$				
Column	Α	В	min	max
Food	-1350	1.0003	800	1800
Living	-2200	1.0001	800	2400
Entertainment	-2950	1.00008	800	3000



Separating Needs from Wants - Searching and Suggesting Step 1: Search an item you want. Coly developers program Step 2: Get our suggestion. **Design Rationale** 1. How to define "affordable" and Column 3 'not affordable"? Price > Income × 15% 2. Credit card debts are mostly Column 2 accumulated by multiple small Price ≤ Income × 15% expenses. Column 1 3. We **trust** that an adult has at least some ability of self-control. Price ≤ Income × 3%

• Record Your Every Expense - Lazy? Just take a picture!

Characteristics

- 1. Classified into budget columns.
- 2. Budget deductible
- 3. Can save receipt picture as well.

Research Work

Automatic Receipt Input

Future Work

- 1. Splitted receipts
- 2. Automatic recognition of some store receipts.
- 3. Self-adjusting mathematical fitting curves.



In most cases, the number we need in the receipt is **not** the largest number extracted from the OCR API.

5

The END

Thank you!

6