Fatching

: Fashion Recommendation Service

- Week 12 -

Algorithm

- A total of 432 cases (108 cases for each category)
  → 4 categories, 12 colors, 3 length, 3 fit

→

Example of fashion vectors

1. {top, black, middle, normal}
2. {bottom, green, long, loose}
3. {outer, green, long, loose}

↓

Matching items of 6 cases

{top, ⋯} → {bottom, ⋯}

{top, ⋯} → {outer, ⋯}

{outer, ⋯} → {top, ⋯}

{outer, ⋯} → {bottom, ⋯}

{bottom, ⋯} → {top, ⋯}

{bottom, ⋯} → {outer, ⋯}

Algorithm

- 432*432 zero matrix

  → If the items match each other, add 1.

		Top, yellow						Bottom, black		
	0	0	0	0	0	0	0	0	0	0
Top, yellow	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Bottom, black	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

→

		Top, yellow						Bottom, black		
	0	0	0	0	0	0	0	0	0	0
Top, yellow	0	0	0	0	0	0	0	1	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
Bottom, black	0	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

Algorithm

- Find the fashion vector that matches most.

  → Find the picture of the item in data

Top, yellow	Top, yellow									
Top, yellow	0	0	0	0	0	5	2	2	3	1
	0	0	0	0	0	5	4	5	2	3
	0	0	0	0	0	1	2	3	4	4
	0	0	0	0	0	2	2	1	2	1
	0	0	0	0	0	1	3	1	2	2
	5	5	1	2	1	0	0	0	0	0
	2	4	2	2	3	0	0	0	0	0
	2	5	3	1	1	0	0	0	0	0
	3	2	4	2	2	0	0	0	0	0
	1	3	4	1	2	0	0	0	0	0

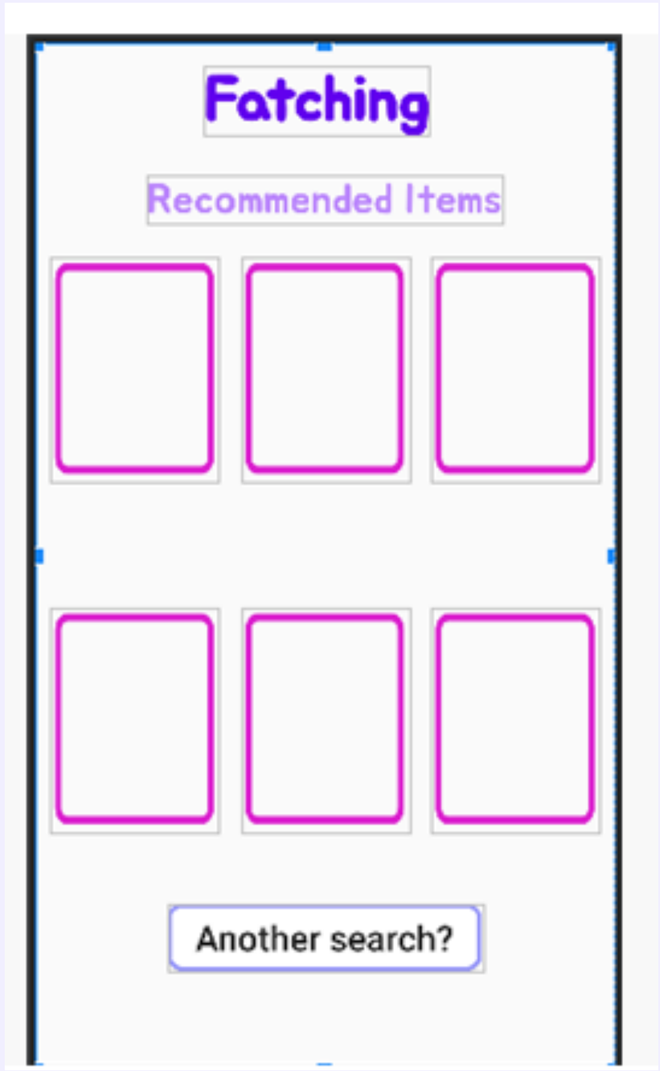
→

Bottom, blue										
Top, yellow	0	0	0	0	0	5	2	2	3	1
	0	0	0	0	0	5	4	5	2	3
	0	0	0	0	0	1	2	3	4	4
	0	0	0	0	0	2	2	1	2	1
	0	0	0	0	0	1	3	1	2	2
	5	5	1	2	1	0	0	0	0	0
	2	4	2	2	3	0	0	0	0	0
	2	5	3	1	1	0	0	0	0	0
	3	2	4	2	2	0	0	0	0	0
	1	3	4	1	2	0	0	0	0	0

Probelms

- What if there are many pictures with the selected fashion vector?
- How to deal with data without labels? (Lots of ‘none’!)

Application



〈 Result page 〉

- Total 6 items would be recommended.
- If the user press ‘Another search?’ Button,
  new recommendation comes up.

→ Most of functions have been implemented.

→ Only adding data and linking db/server with data are remained.

Thank you!