

A stylized illustration of a web browser window. It has a yellow title bar with standard window controls (minimize, maximize, close) on the right. Below the title bar is a blue address bar containing navigation icons (back, forward, refresh) and a search icon. The main content area is white and displays the text 'PolyShop OSS' in a large, red, serif font. Below this, in a smaller black serif font, is the text 'Presented by Group 41'. The browser window is set against a background of concentric, wavy lines in shades of beige and tan. Decorative elements include colorful geometric shapes (squares, circles, triangles) and starburst patterns in the corners, and red wavy lines with yellow starbursts along the top and bottom edges.

PolyShop OSS

Presented by Group 41

Project Overview

Developing an Online Shopping System (OSS) that provides a seamless and user-friendly platform for customers to browse, search, and purchase products.

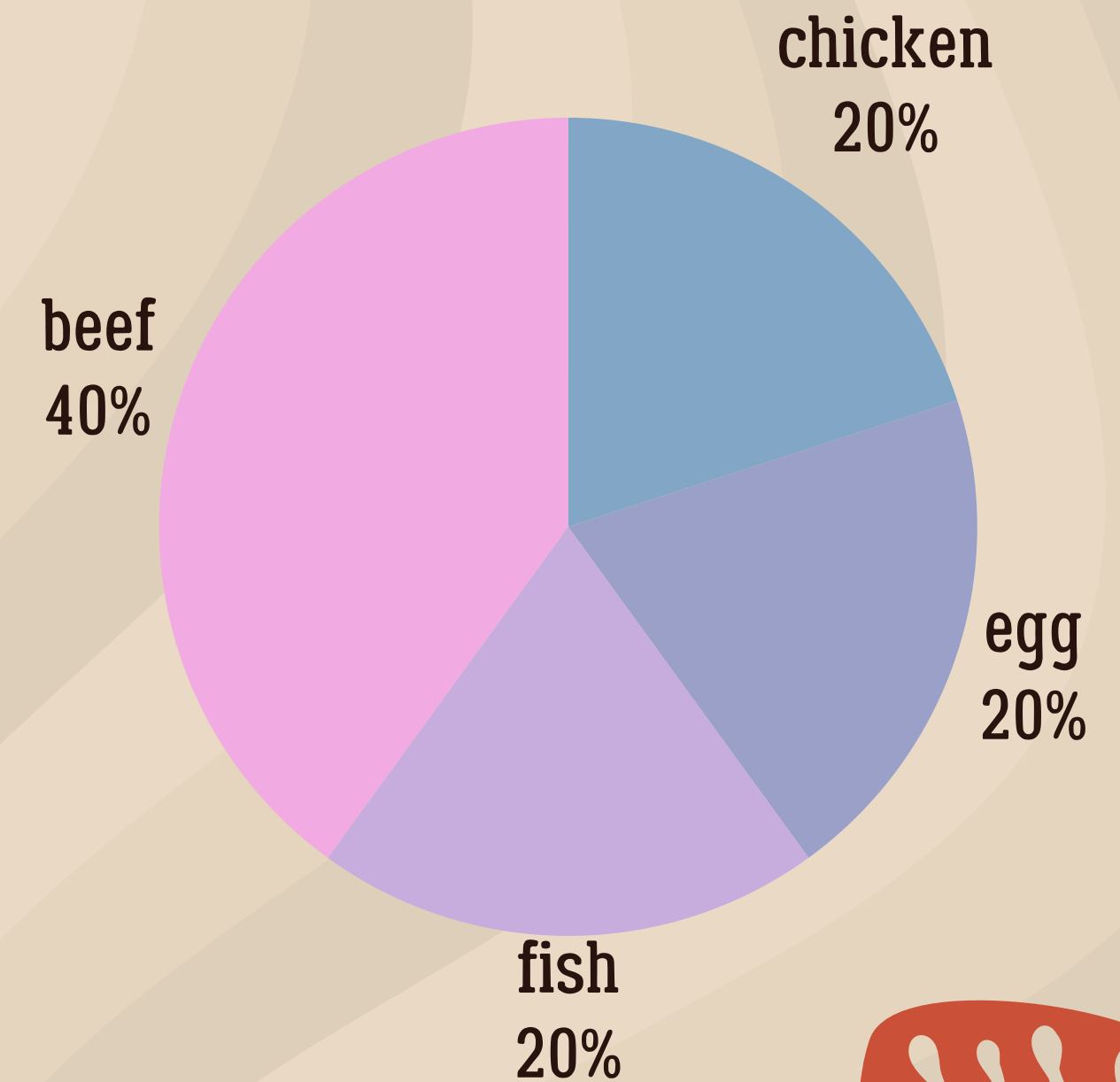


Admin

Admin manages and controls the entire product inventory.

Key Functionalities:

- Adding/Deleting/Updating products
- Updating stock levels
- Assigning categories to products



User view

User Account Management

- Account creation
- Information management
- Address management

Product Listings and Search

- Product display
- Product information
- Product search and filter

Shopping Cart and Checkout

- Cart functionality
- Checkout process
- Address and payment

Admin View

Product Management

- Editing products
- Adding new products
- Removing products

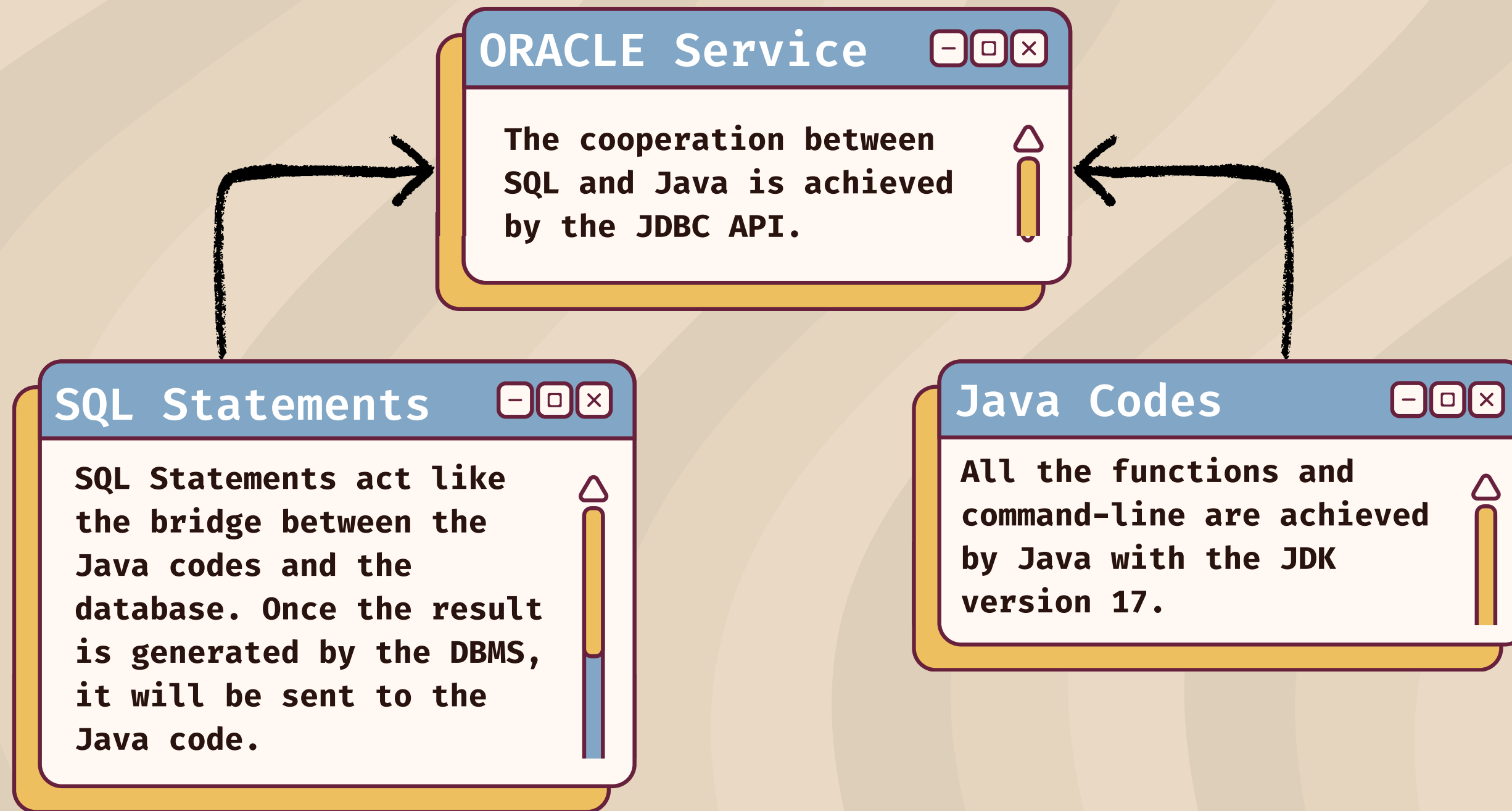
Promotion Management

- Editing promotions
- Adding new promotions
- Removing promotions

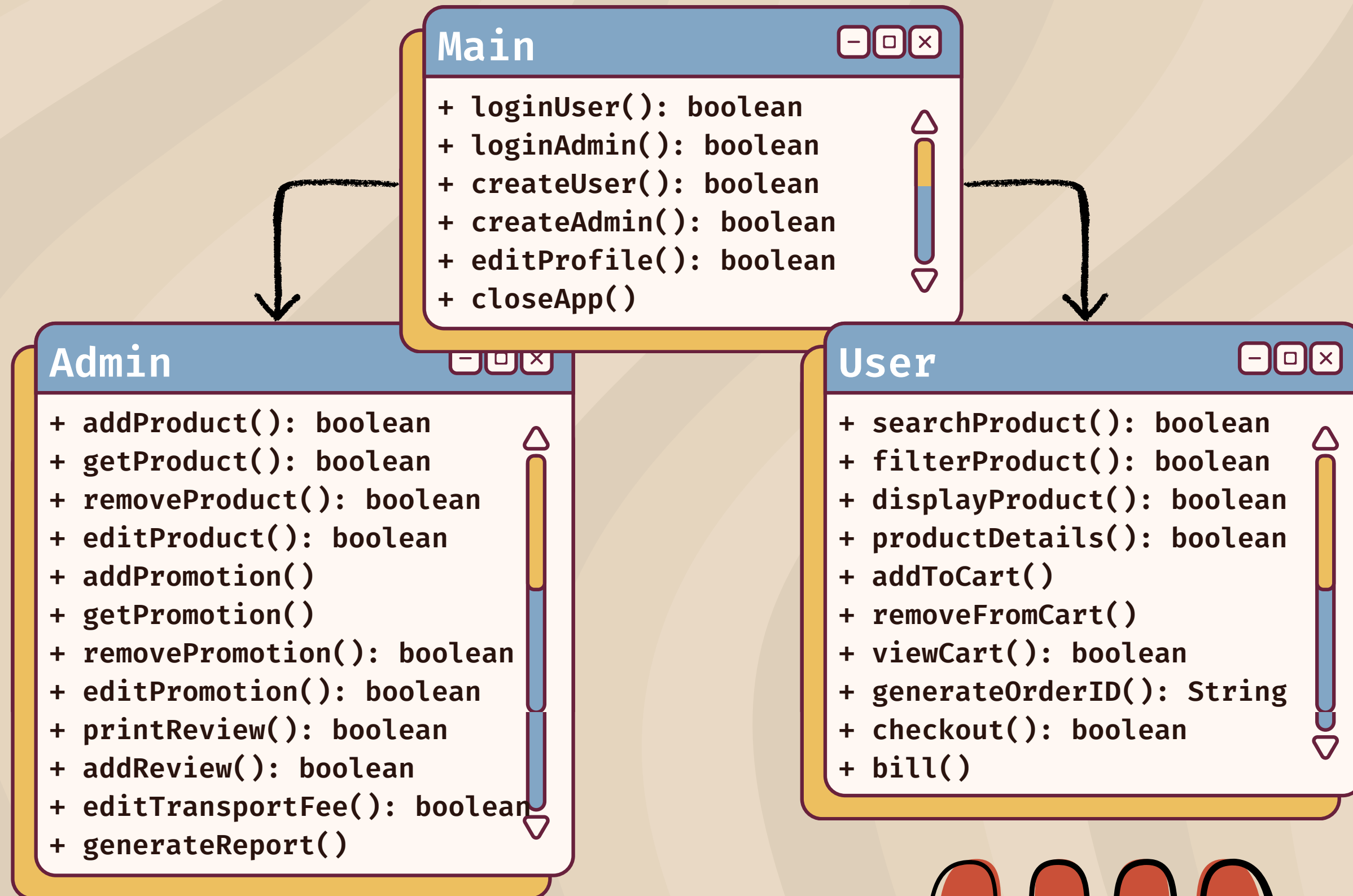
Report Management

- Sales reports
- Promotion reports
- User behavior reports

Architecture



Design Choice





Functionalities



Log In



The system supports logging in as a user or admin.

```
Are you a user or admin?  
'u' - user account | 'a' - admin account  
>> a
```

Create Account



The system supports creating new account.

```
Input unique username (or input '0' to exit)
>> test1
First name
>> fn
Last name
>> ln
Date of Birth
>> 2023-12-01
Email
>> testtest@test.ch
```

```
Address
>> testtest
Phone number
>> 12345678
Input password
>> test
The account 'test1' has been successfully created.
```



Generate Report



The system supports generating reports.

Report Management System - Select a report type

1. Sales report
2. Promotion report
0. Cancel

>>

Report



Here is the sales report based on the purchase history (Descending order by views time)

1. Product chicken

Product Name: chicken

Current stock: 999

Sales volume: 9440

Sales: 849600

Views: 3

2. Product 231

Product Name: 231

Current stock: 321321293

Sales volume: 28

Sales: 8744988

Views: 1

Search Product



The system supports searching products

- The basic search function allow users saerch product by input the keywords of product name or description .

```
Enter the keyword to search
```

```
>> cake
```

```
Here is the list of product(s)
```

```
Product #1
```

```
~~~~~
```

```
Product ID    : cake
```

```
Product Name  : cake
```

```
Price         : $15.00
```

```
~~~~~
```



Filter Product



The system supports searching product by a specific filter

There are 3 different filter types:

- Category, Brand and Price

Available Filter Options:

1. By Category
2. By Brand
3. By Price Range

Display Product



The system supports printing the information of all products.

Here is the list of product(s)

Product #1

~~~~~

Product ID : cake

Product Name : cake

Price : \$15.00

~~~~~



Product Details



The system supports printing the information of a specific product.

Product Details

20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1

```
Product Name      : cake
```

Price : \$15.00

Stock : 25

```
Description      : cake
```

```
Dimensions      : 10x10
```

Brand : cake

```
Category      : cake
```

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Add To Cart



The system supports user to add products to cart

Please choose from the following options:

1. Add To Cart
2. Check Review
3. Add a Review
0. Back

>> 1

Please input the amount:

>> 10

The quantity of the product with ID 'chicken' has been updated in the cart.



Remove From Cart



The system supports user to adjust the shopping cart

```
Please choose from the following options:
```

```
1. Remove From Cart
```

```
0. Back
```

```
>> 1
```

```
The product 'cake' has been successfully removed from cart.
```

View Cart



The system supports user to check the cart

Product(s) in Cart

Product #1

~~~~~

Product ID : chicken

Product Name : chicken

Quantity : 20

Price : \$90.00

Total Price : \$1800.00

~~~~~



Checkout



The system supports user to checkout from the cart

Product(s) in Cart

Product #1

~~~~~

Product ID : chicken

Product Name : chicken

Quantity : 20

Price : \$90.00

Total Price : \$1800.00

~~~~~

Choose your delivery option

1. Basic

2. Express

0. Back

Payment



The system supports user to pay the bill

How do you want to pay?

1. Credit Card
2. Cash On Delivery
0. Back

>>



Add Product



The system supports adding new products

```
>> 1
Enter product name >>
apple
Enter brand >>
HKA
Enter description >>
verysweat
Enter category >>
food
Enter price >>
7
Enter weight >>
0.1
Enter dimension >>
xxx
Enter quantity >>
3000000
```



Edit Product



The system supports editing the product details

```
Product Name: eggtart  
Price: $13.0  
Description: verygood  
Dimensions: ~~  
Brand: kfc  
Category: food  
1. ProductID  
2. PromotionID  
3. Name  
4. Brand
```

```
5. Category  
6. Description  
7. Price  
8. DiscountPrice  
9. Weight  
10. Dimension  
11. Stock_Qty  
12. Units_Sold  
0. Cancel  
Select criterion number to change >>
```

Remove Product



The system supports removing product

```
Product Name : apple
Price       : $7.00
Description  : verysweat
Dimensions  : xxx
Brand       : HKA
Category    : food
```

```
To confirm deletion. Re-enter the product name.
```

```
>>apple
```

```
Successfully removed product
```

Add Promotion



The system supports adding promotions to a product

Please choose from the following options:

1. Add a promotion
2. Remove a promotion
3. Edit a promotion
4. Search a promotion
0. Back

>> 1

Enter promotion ID>>

1234a

Enter discount rate

>>

0.1

Enter start date >>

2023-01-20

Enter end date >>

2024-01-20



Remove Promotion



The system supports removing promotions

```
Enter promotion ID >>
```

```
1234a
```

```
To confirm deletion. Re-enter the promotion ID.
```

```
>>1234a
```


Edit Promotion



The system supports editing a promotion details

```
Enter promotion ID >>
```

```
1234a
```

```
1. DiscountRate
```

```
2. StartDate
```

```
3. EndDate
```

```
0. Cancel
```

```
Select criterion number to change >>
```



Add Review



The system supports user to write a review on a product

We treasure all of your responses.

Please fill in the form below

If you want to cancel the process,

Please input CANCEL in the input field

What do you feel about this product?

nice

How much would you rate this product (0.0 - 5.0)

5

Thank You for your time. Your review has been successfully updated

View All Review



The system supports user to view all the reviews

```
-----  
User ID: shusen  
Comments: nice  
Rating: 5.0  
-----
```



**Thank
You**