# DAFTAR LAMPIRAN

[DAFTAR LAMPIRAN ix](#_Toc426618904)

[LAMPIRAN A ACTIVITY DIAGRAM A-1](#_Toc426618905)

[LAMPIRAN B SEQUENCE DIAGRAM B-1](#_Toc426618906)

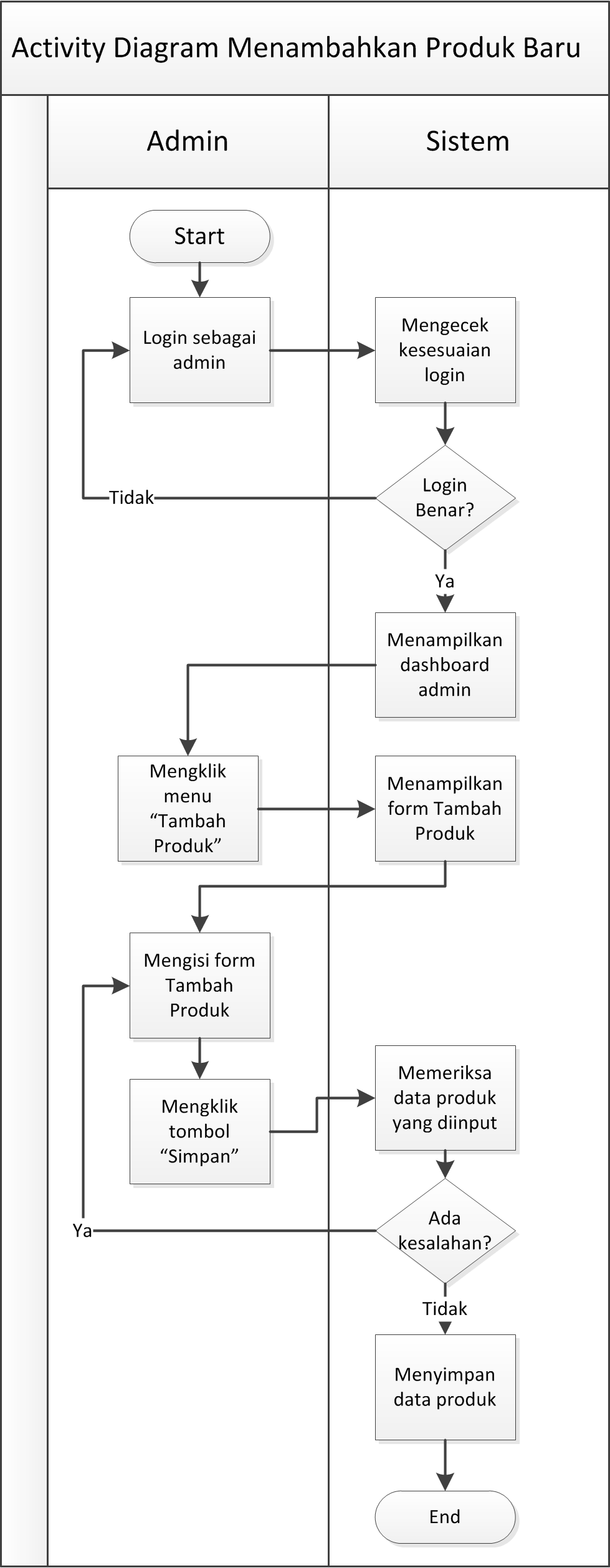
[LAMPIRAN C DATA PENILAIAN PENGGUNA C-1](#_Toc426618907)

[LAMPIRAN D DATA PENGUJIAN D-1](#_Toc426618908)

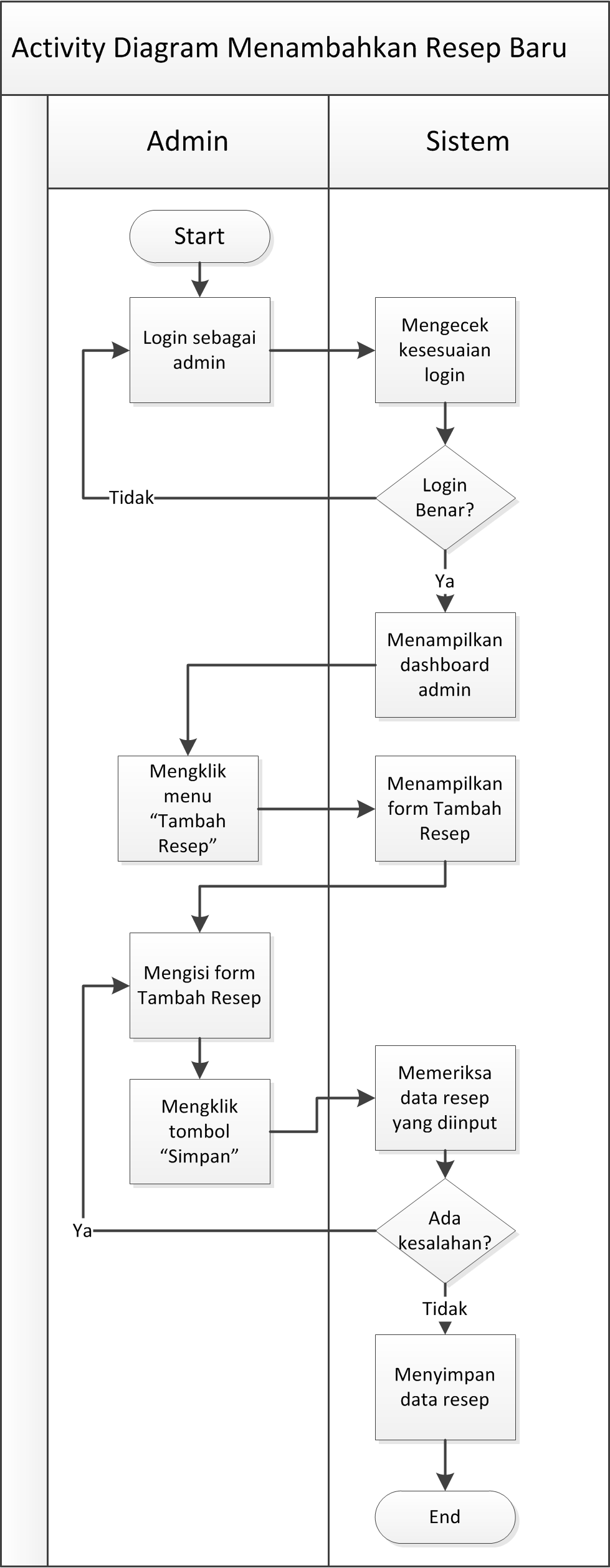
# ACTIVITY DIAGRAM

Rincian tiap *activity diagram* tersebut adalah sebagai berikut :

1. *Activity diagram* menambahkan produk baru



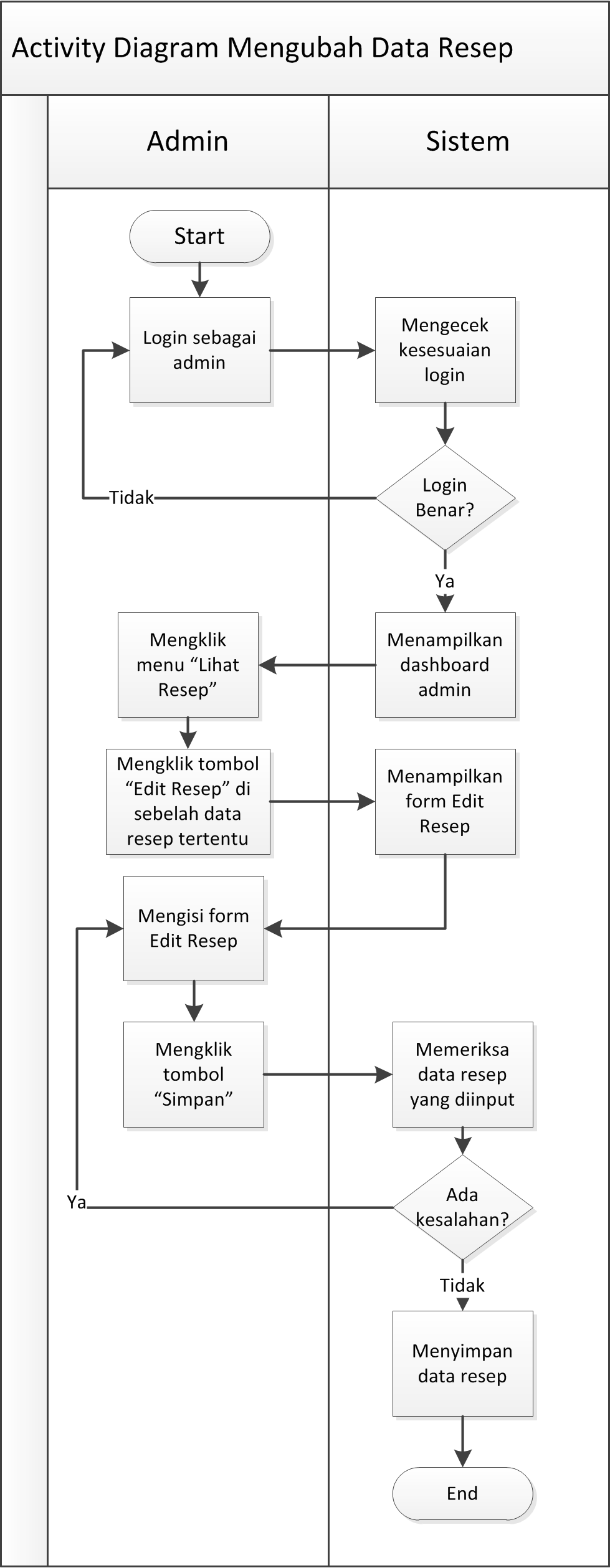
1. *Activity diagram* menambahkan resep baru



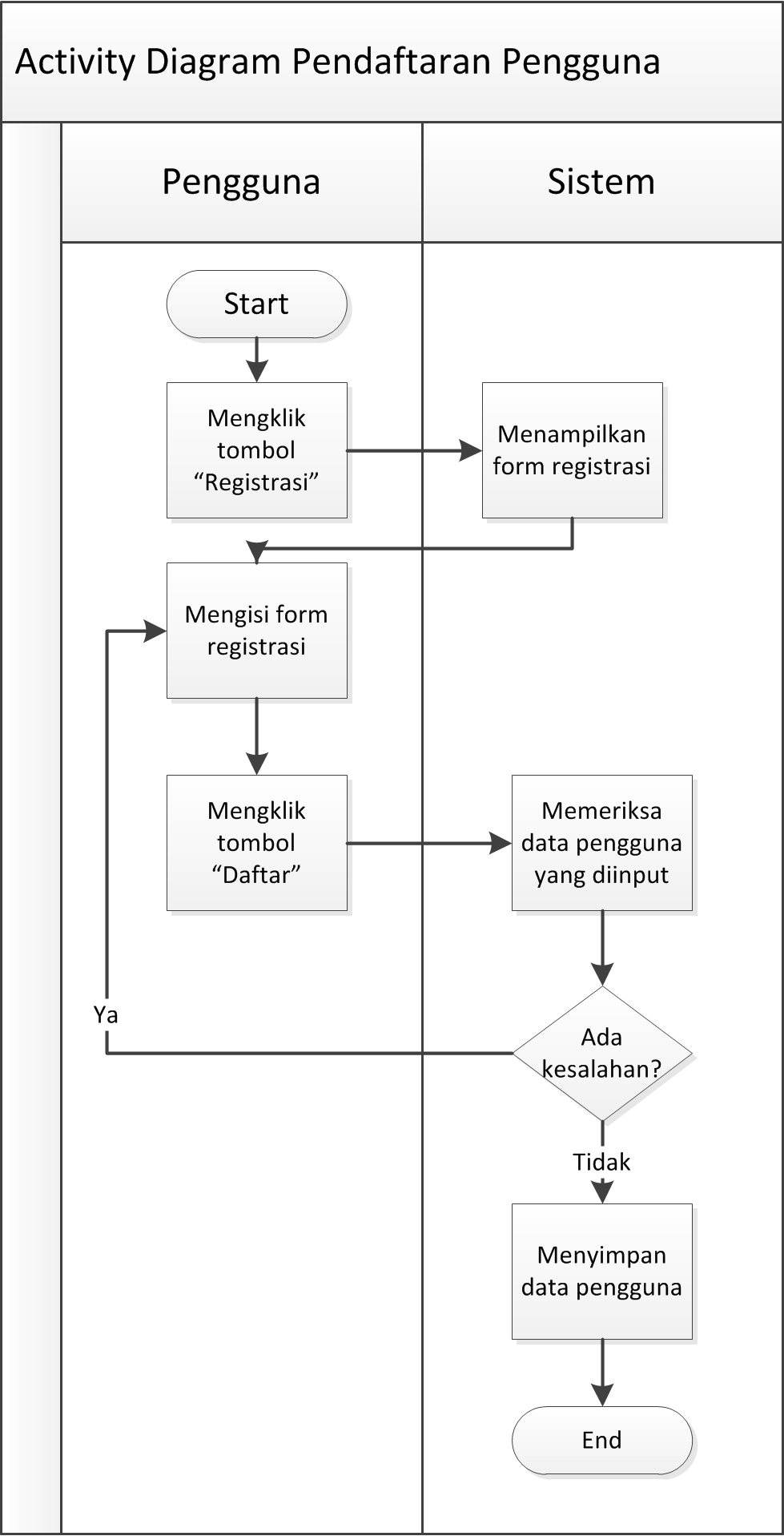
1. *Activity diagram* mengubah data produk

**

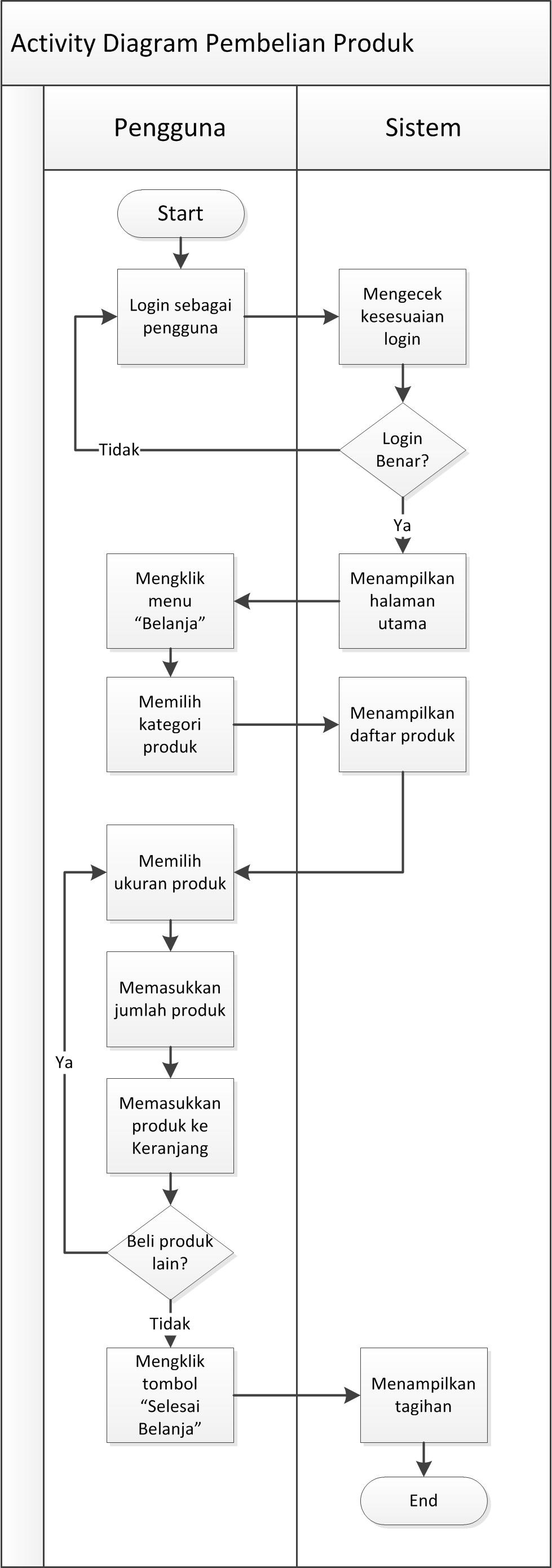
1. *Activity diagram* mengubah data resep



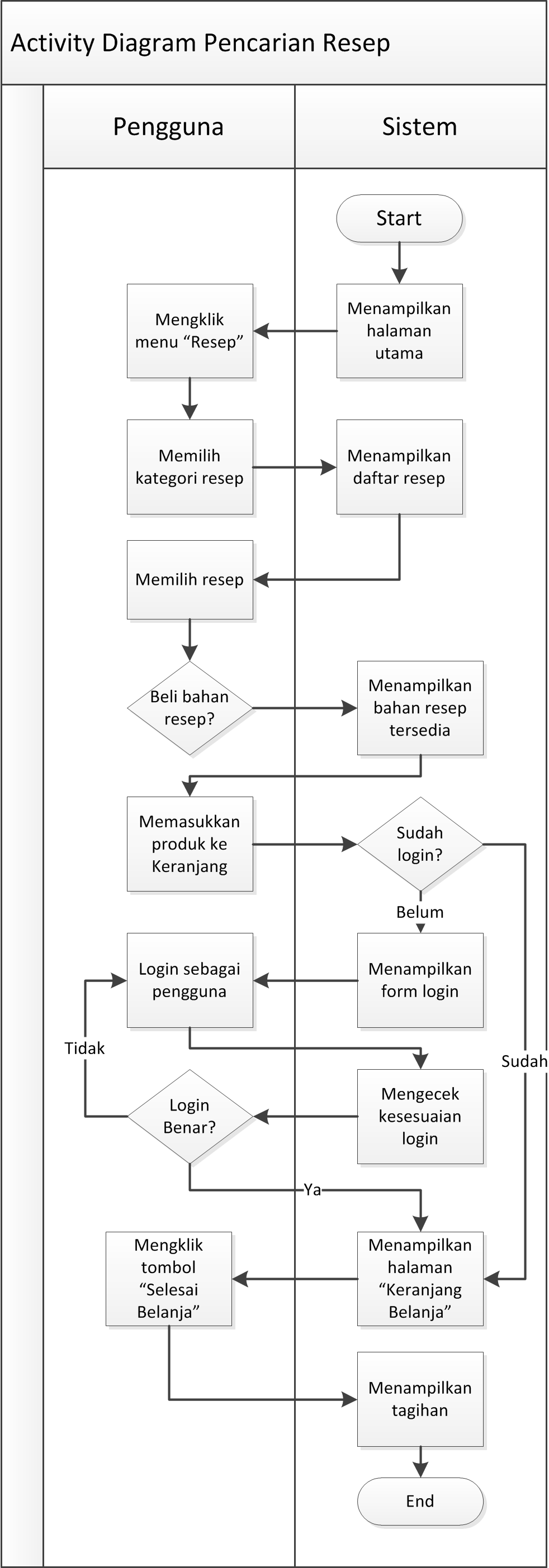
1. *Activity diagram* pendaftaran pengguna



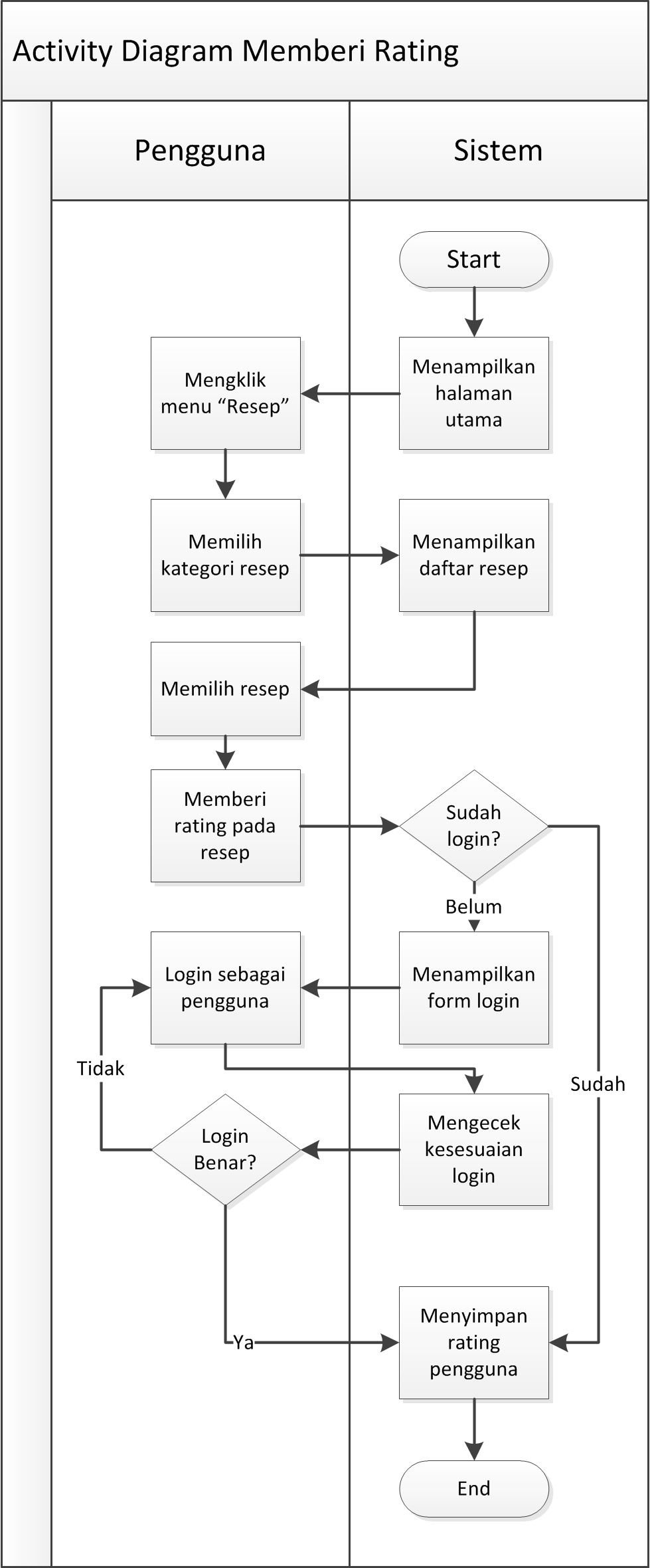
1. *Activity diagram* pembelian produk



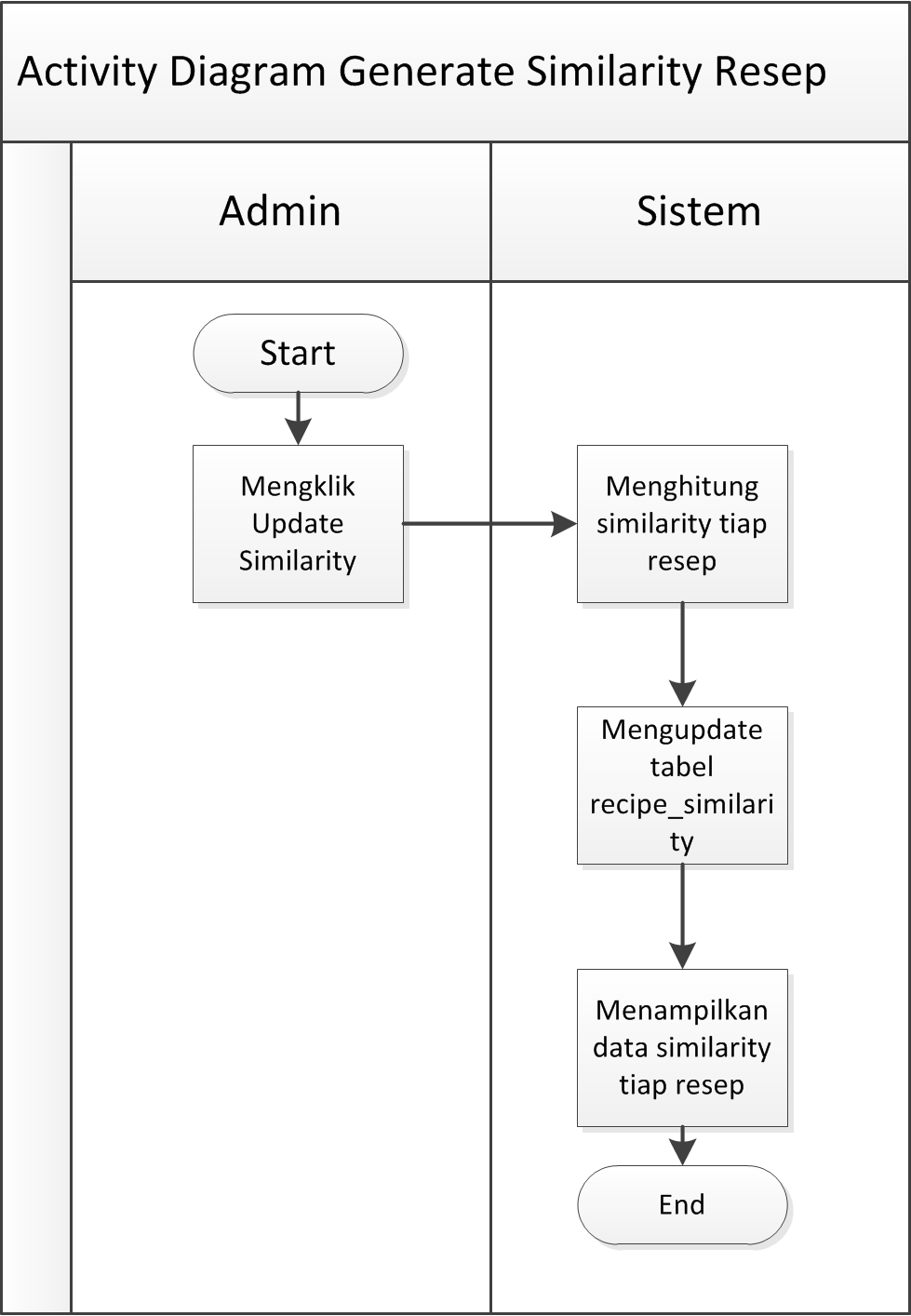
1. *Activity diagram* pencarian resep



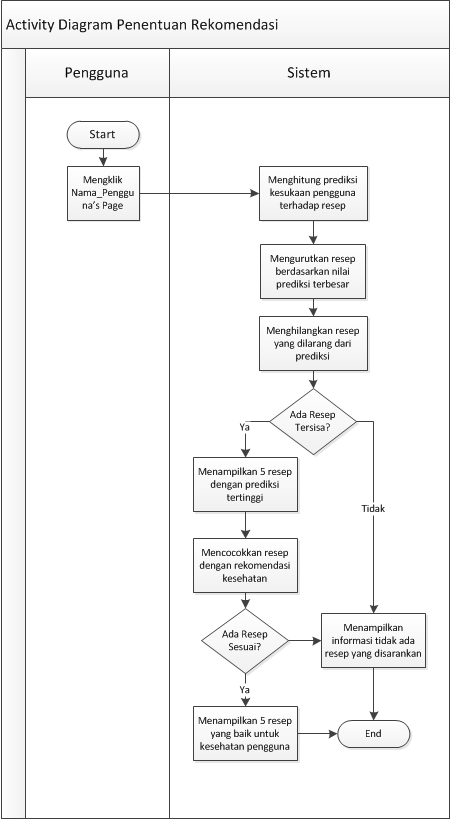
1. *Activity diagram* pemberian *rating*



1. *Activity diagram* *generate similarity* resep



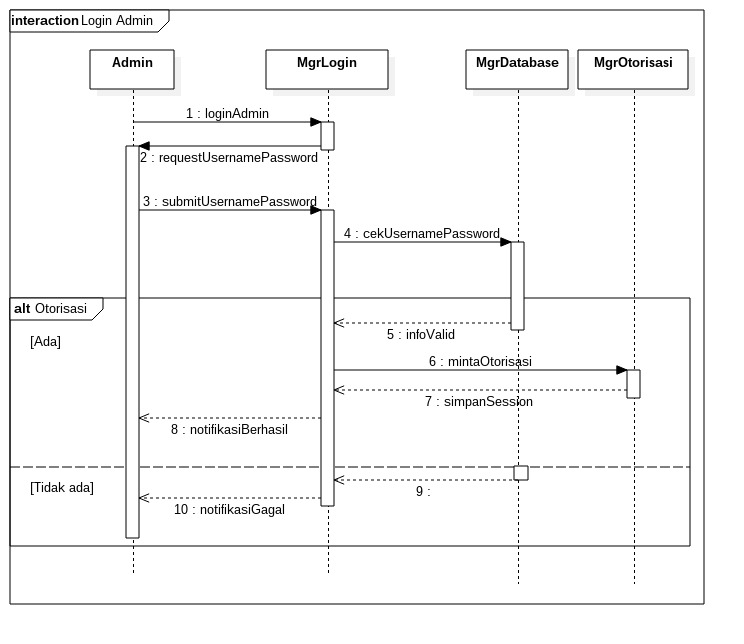
1. *Activity diagram* penentuan rekomendasi



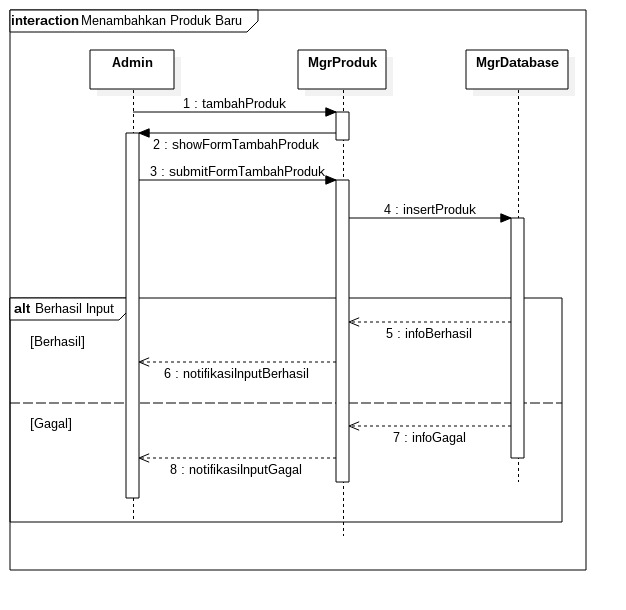
# SEQUENCE DIAGRAM

Rincian tiap *sequence diagram* tersebut adalah sebagai berikut :

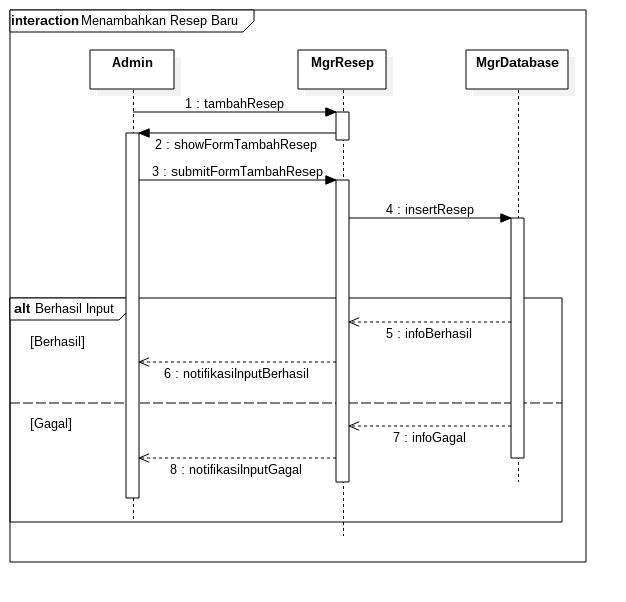
1. *Sequence diagram* login admin



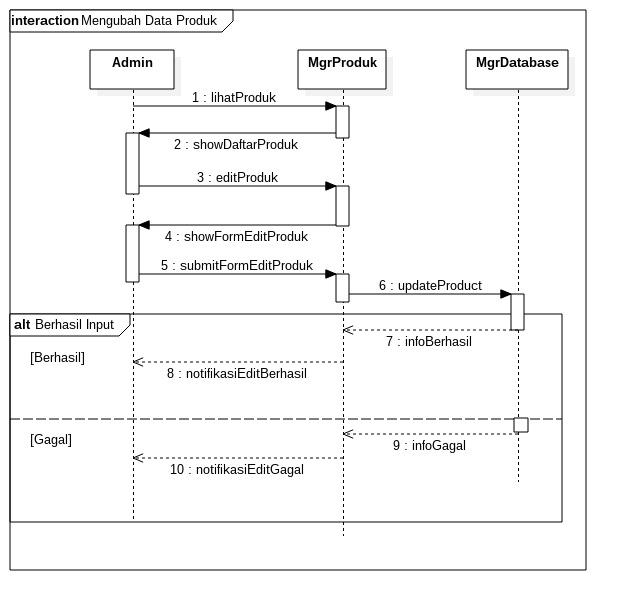
1. *Sequence diagram* menambahkan produk baru



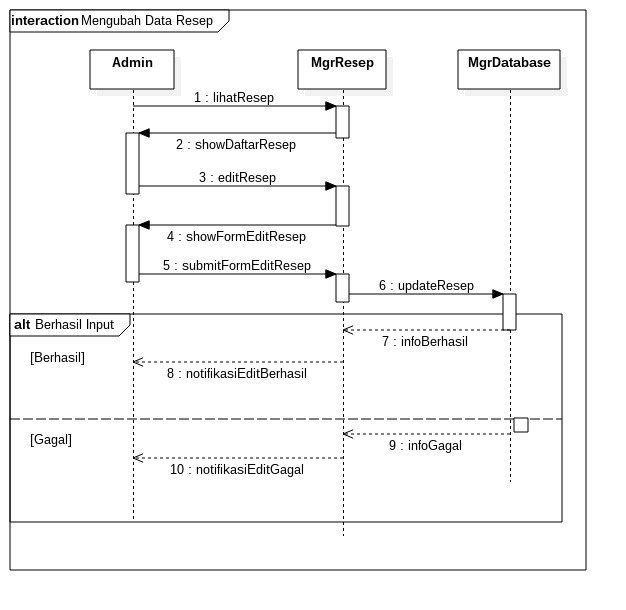
1. *Sequence diagram* menambakan resep baru



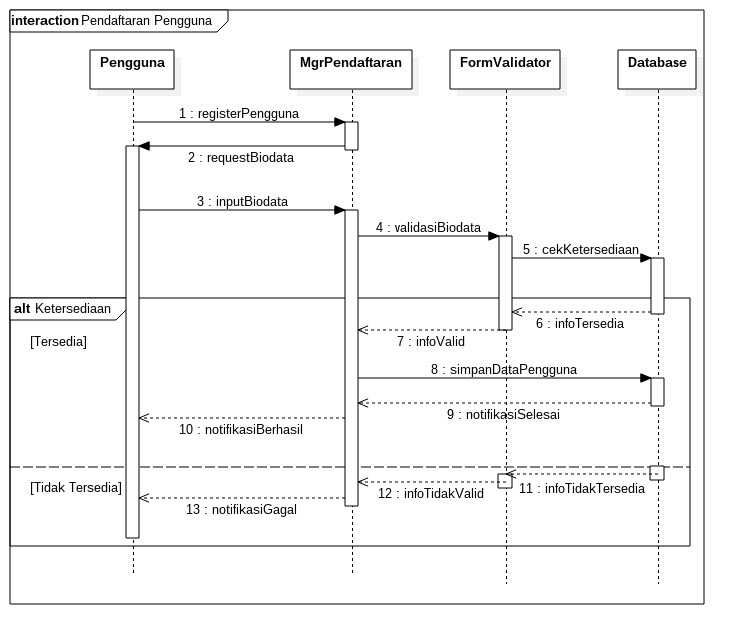
1. *Sequence diagram* mengubah data produk



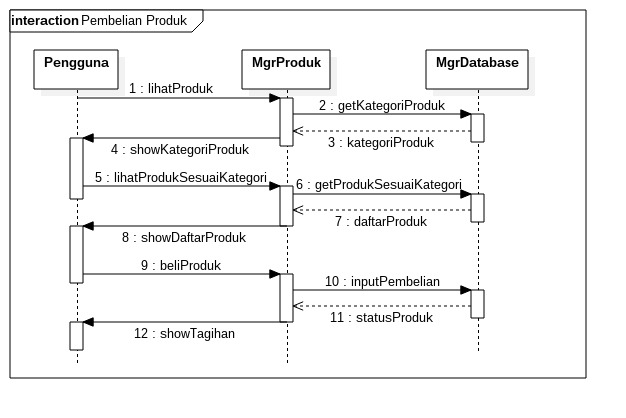
1. *Sequence diagram* mengubah data resep



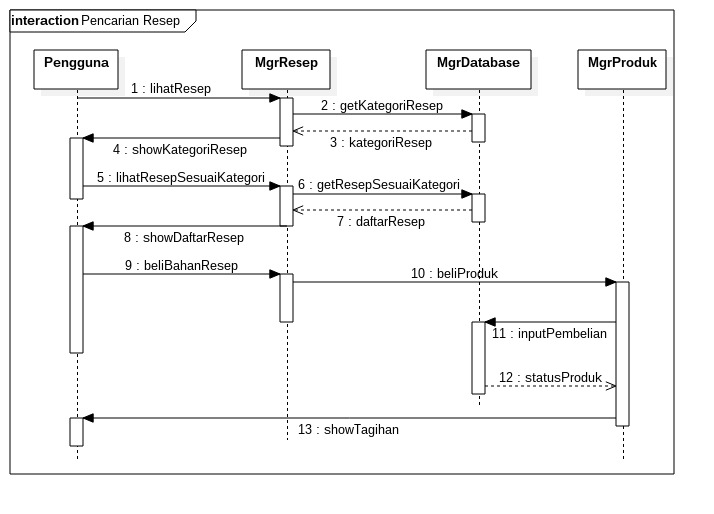
1. *Sequence diagram* pendaftaran pengguna



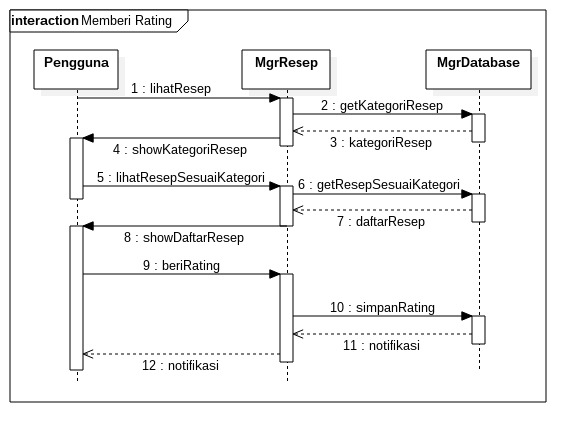
1. *Sequence diagram* pembelian produk



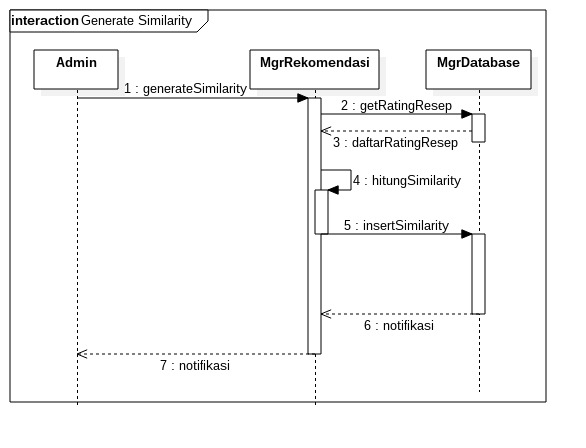
1. *Sequence diagram* pencarian resep



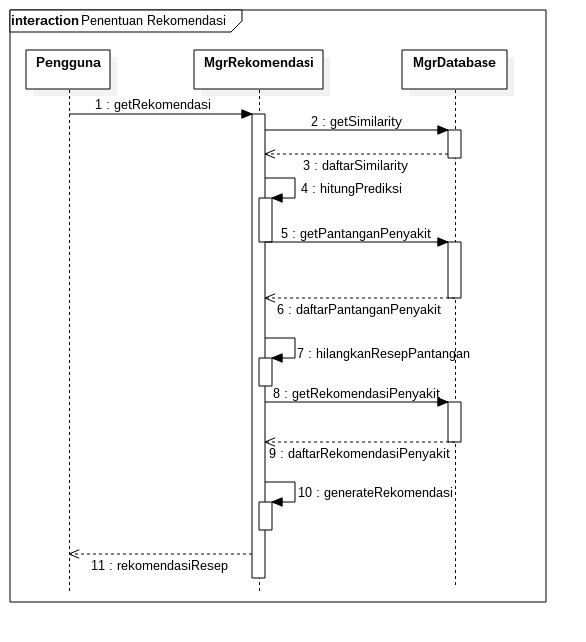
1. *Sequence diagram* memberi *rating*



1. *Sequence diagram generate similarity*



1. *Sequence diagram* penentuan rekomendasi



# DATA PENILAIAN PENGGUNA

Data penilaian pengguna merupakan data penilaian yang diberikan oleh penguna terhadap resep yang ada. Data penilaian pengguna dibagi atas data untuk pembelajaran sistem rekomendasi serta data untuk pengetesan sistem rekomendasi.

1. Data pembelajaran sistem rekomendasi

Data ini digunakan untuk menghasilkan nilai *similarity* antar resep serta prediksi terhadap penilaian resep yang ada pada set data pengetesan.

| Rating\_id | Customer\_Id | Recipe\_id | Rating |
| --- | --- | --- | --- |
| 1 | 1 | 31 | 3 |
| 2 | 1 | 32 | 1 |
| 3 | 1 | 33 | 2 |
| 4 | 1 | 34 | 2 |
| 5 | 1 | 35 | 3 |
| 6 | 1 | 36 | 2 |
| 7 | 1 | 37 | 2 |
| 8 | 1 | 38 | 1 |
| 9 | 1 | 39 | 1 |
| 10 | 1 | 40 | 4 |
| 11 | 1 | 41 | 4 |
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| 13 | 1 | 43 | 5 |
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| 17 | 2 | 34 | 2 |
| 18 | 2 | 35 | 2 |
| 19 | 2 | 36 | 3 |
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| 21 | 2 | 38 | 2 |
| 22 | 2 | 39 | 4 |
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| 25 | 3 | 16 | 1 |
| 26 | 3 | 17 | 1 |
| 27 | 3 | 18 | 1 |
| 28 | 3 | 19 | 2 |
| 29 | 3 | 20 | 1 |
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| 512 | 26 | 35 | 2 |
| 513 | 26 | 36 | 3 |
| 514 | 26 | 37 | 1 |
| 515 | 26 | 38 | 2 |
| 516 | 26 | 39 | 3 |
| 517 | 26 | 40 | 4 |
| 518 | 26 | 41 | 2 |
| 519 | 26 | 42 | 3 |
| 520 | 26 | 43 | 4 |
| 521 | 28 | 1 | 4 |
| 522 | 28 | 2 | 3 |
| 523 | 28 | 3 | 3 |
| 524 | 28 | 4 | 3 |
| 525 | 28 | 5 | 3 |
| 526 | 28 | 6 | 3 |
| 527 | 28 | 7 | 3 |
| 528 | 28 | 8 | 3 |
| 529 | 28 | 9 | 3 |
| 530 | 28 | 10 | 3 |
| 531 | 28 | 11 | 3 |
| 532 | 28 | 12 | 3 |
| 533 | 28 | 13 | 3 |
| 534 | 28 | 14 | 3 |
| 535 | 28 | 15 | 3 |
| 536 | 28 | 16 | 3 |
| 537 | 28 | 17 | 3 |
| 538 | 28 | 18 | 4 |
| 539 | 28 | 19 | 4 |
| 540 | 28 | 20 | 3 |
| 541 | 28 | 21 | 4 |
| 542 | 28 | 22 | 5 |
| 543 | 28 | 23 | 4 |
| 544 | 28 | 24 | 5 |
| 545 | 28 | 25 | 4 |
| 546 | 28 | 26 | 4 |
| 547 | 28 | 27 | 4 |
| 548 | 28 | 28 | 4 |
| 549 | 28 | 29 | 4 |
| 550 | 28 | 30 | 3 |
| 551 | 28 | 31 | 3 |
| 552 | 28 | 32 | 3 |
| 553 | 28 | 33 | 3 |
| 554 | 28 | 34 | 3 |
| 555 | 28 | 35 | 3 |
| 556 | 28 | 36 | 3 |
| 557 | 28 | 37 | 3 |
| 558 | 28 | 38 | 3 |
| 559 | 28 | 39 | 3 |
| 560 | 28 | 40 | 4 |
| 561 | 28 | 41 | 3 |
| 562 | 28 | 42 | 3 |
| 563 | 28 | 43 | 4 |
| 564 | 29 | 1 | 4 |
| 565 | 29 | 2 | 4 |
| 566 | 29 | 3 | 3 |
| 567 | 29 | 4 | 4 |
| 568 | 29 | 5 | 4 |
| 569 | 29 | 6 | 5 |
| 570 | 29 | 7 | 3 |
| 571 | 29 | 8 | 4 |
| 572 | 29 | 9 | 4 |
| 573 | 29 | 10 | 3 |
| 574 | 29 | 11 | 4 |
| 575 | 29 | 12 | 4 |
| 576 | 29 | 13 | 3 |
| 577 | 29 | 14 | 3 |
| 578 | 29 | 15 | 4 |
| 579 | 29 | 16 | 3 |
| 580 | 29 | 17 | 3 |
| 581 | 29 | 18 | 5 |
| 582 | 29 | 19 | 4 |
| 583 | 29 | 20 | 3 |
| 584 | 29 | 21 | 4 |
| 585 | 29 | 22 | 3 |
| 586 | 29 | 23 | 4 |
| 587 | 29 | 24 | 3 |
| 588 | 29 | 25 | 3 |
| 589 | 29 | 26 | 5 |
| 590 | 29 | 27 | 4 |
| 591 | 29 | 28 | 5 |
| 592 | 29 | 29 | 5 |
| 593 | 29 | 30 | 3 |
| 594 | 29 | 31 | 3 |
| 595 | 29 | 32 | 3 |
| 596 | 29 | 33 | 3 |
| 597 | 29 | 34 | 4 |
| 598 | 29 | 35 | 3 |
| 599 | 29 | 36 | 3 |
| 600 | 29 | 37 | 3 |
| 601 | 29 | 38 | 3 |
| 602 | 29 | 39 | 4 |
| 603 | 29 | 40 | 4 |
| 604 | 29 | 41 | 4 |
| 605 | 29 | 42 | 4 |
| 606 | 29 | 43 | 5 |
| 607 | 30 | 1 | 3 |
| 608 | 30 | 2 | 2 |
| 609 | 30 | 3 | 4 |
| 610 | 30 | 4 | 4 |
| 611 | 30 | 5 | 4 |
| 612 | 30 | 6 | 4 |
| 613 | 30 | 7 | 3 |
| 614 | 30 | 8 | 3 |
| 615 | 30 | 9 | 5 |
| 616 | 30 | 10 | 2 |
| 617 | 30 | 11 | 2 |
| 618 | 30 | 12 | 2 |
| 619 | 30 | 20 | 2 |
| 620 | 30 | 13 | 3 |
| 621 | 30 | 14 | 3 |
| 622 | 30 | 15 | 1 |
| 623 | 30 | 16 | 3 |
| 624 | 30 | 17 | 3 |
| 625 | 30 | 18 | 5 |
| 626 | 30 | 19 | 5 |
| 627 | 30 | 21 | 4 |
| 628 | 30 | 22 | 4 |
| 629 | 30 | 23 | 4 |
| 630 | 30 | 24 | 4 |
| 631 | 30 | 25 | 2 |
| 632 | 30 | 26 | 2 |
| 633 | 30 | 27 | 5 |
| 634 | 30 | 28 | 5 |
| 635 | 30 | 29 | 3 |
| 636 | 30 | 30 | 5 |
| 637 | 30 | 31 | 4 |
| 638 | 30 | 32 | 5 |
| 639 | 30 | 33 | 5 |
| 640 | 30 | 34 | 3 |
| 641 | 30 | 35 | 5 |
| 642 | 30 | 36 | 4 |
| 643 | 30 | 37 | 2 |
| 644 | 30 | 38 | 1 |
| 645 | 30 | 39 | 2 |
| 646 | 30 | 40 | 3 |
| 647 | 30 | 41 | 3 |
| 648 | 30 | 42 | 5 |
| 649 | 30 | 43 | 5 |
| 650 | 31 | 1 | 2 |
| 651 | 31 | 2 | 3 |
| 652 | 31 | 3 | 4 |
| 653 | 31 | 4 | 1 |
| 654 | 31 | 5 | 1 |
| 655 | 31 | 6 | 5 |
| 656 | 31 | 7 | 3 |
| 657 | 31 | 8 | 3 |
| 658 | 31 | 9 | 5 |
| 659 | 31 | 10 | 2 |
| 660 | 31 | 11 | 3 |
| 661 | 31 | 12 | 2 |
| 662 | 31 | 13 | 3 |
| 663 | 31 | 14 | 4 |
| 664 | 31 | 15 | 3 |
| 665 | 31 | 16 | 2 |
| 666 | 31 | 17 | 3 |
| 667 | 31 | 18 | 4 |
| 668 | 31 | 19 | 5 |
| 669 | 31 | 20 | 3 |
| 670 | 31 | 21 | 5 |
| 671 | 31 | 22 | 3 |
| 672 | 31 | 23 | 5 |
| 673 | 31 | 24 | 3 |
| 674 | 31 | 25 | 2 |
| 675 | 31 | 26 | 3 |
| 676 | 31 | 27 | 5 |
| 677 | 31 | 28 | 5 |
| 678 | 31 | 29 | 5 |
| 679 | 31 | 30 | 2 |
| 680 | 31 | 31 | 4 |
| 681 | 31 | 32 | 1 |
| 682 | 31 | 33 | 5 |
| 683 | 31 | 34 | 3 |
| 684 | 31 | 35 | 5 |
| 685 | 31 | 36 | 4 |
| 686 | 31 | 37 | 3 |
| 687 | 31 | 38 | 3 |
| 688 | 31 | 39 | 5 |
| 689 | 31 | 40 | 5 |
| 690 | 31 | 41 | 3 |
| 691 | 31 | 42 | 4 |
| 692 | 31 | 43 | 5 |
| 693 | 33 | 11 | 5 |
| 694 | 33 | 12 | 1 |
| 695 | 33 | 13 | 2 |
| 696 | 33 | 14 | 4 |
| 697 | 33 | 15 | 3 |
| 698 | 33 | 16 | 2 |
| 699 | 33 | 17 | 3 |
| 700 | 33 | 18 | 3 |
| 701 | 33 | 19 | 4 |
| 702 | 33 | 20 | 1 |
| 703 | 33 | 1 | 1 |
| 704 | 33 | 2 | 5 |
| 705 | 33 | 3 | 5 |
| 706 | 33 | 4 | 2 |
| 707 | 33 | 5 | 5 |
| 708 | 33 | 6 | 5 |
| 709 | 33 | 7 | 5 |
| 710 | 33 | 8 | 5 |
| 711 | 33 | 9 | 5 |
| 712 | 33 | 10 | 5 |
| 713 | 33 | 21 | 4 |
| 714 | 33 | 22 | 4 |
| 715 | 33 | 23 | 4 |
| 716 | 33 | 24 | 3 |
| 717 | 33 | 25 | 3 |
| 718 | 33 | 26 | 4 |
| 719 | 33 | 27 | 5 |
| 720 | 33 | 28 | 5 |
| 721 | 33 | 29 | 4 |
| 722 | 33 | 30 | 2 |
| 723 | 33 | 31 | 3 |
| 724 | 33 | 32 | 2 |
| 725 | 33 | 33 | 4 |
| 726 | 33 | 34 | 1 |
| 727 | 33 | 35 | 2 |
| 728 | 33 | 36 | 1 |
| 729 | 33 | 37 | 1 |
| 730 | 33 | 38 | 1 |
| 731 | 33 | 39 | 1 |
| 732 | 33 | 40 | 5 |
| 733 | 33 | 41 | 3 |
| 734 | 33 | 42 | 4 |
| 735 | 33 | 43 | 4 |

1. Data pengetesan sistem rekomendasi

Data ini digunakan untuk mengevaluasi prediksi penilaian resep yang dihasilkan oleh sistem rekomendasi.

| Rating\_id | Recipe\_id | Customer\_id | Rating |
| --- | --- | --- | --- |
| 1 | 1 | 1 | 4 |
| 2 | 2 | 1 | 3 |
| 3 | 3 | 1 | 2 |
| 4 | 4 | 1 | 2 |
| 5 | 5 | 1 | 2 |
| 6 | 6 | 1 | 5 |
| 7 | 7 | 1 | 3 |
| 8 | 8 | 1 | 5 |
| 9 | 9 | 1 | 3 |
| 10 | 10 | 1 | 3 |
| 11 | 11 | 1 | 2 |
| 12 | 12 | 1 | 1 |
| 13 | 13 | 1 | 1 |
| 14 | 14 | 1 | 1 |
| 15 | 15 | 1 | 1 |
| 16 | 16 | 1 | 3 |
| 17 | 17 | 1 | 1 |
| 18 | 18 | 1 | 3 |
| 19 | 19 | 1 | 4 |
| 20 | 20 | 1 | 1 |
| 21 | 1 | 2 | 1 |
| 22 | 2 | 2 | 2 |
| 23 | 3 | 2 | 3 |
| 24 | 4 | 2 | 3 |
| 25 | 5 | 2 | 3 |
| 26 | 6 | 2 | 2 |
| 27 | 7 | 2 | 2 |
| 28 | 8 | 2 | 1 |
| 29 | 9 | 2 | 3 |
| 30 | 10 | 2 | 2 |
| 31 | 11 | 2 | 2 |
| 32 | 12 | 2 | 3 |
| 33 | 13 | 2 | 3 |
| 34 | 14 | 2 | 3 |
| 35 | 15 | 2 | 2 |
| 36 | 16 | 2 | 2 |
| 37 | 17 | 2 | 3 |
| 38 | 18 | 2 | 3 |
| 39 | 19 | 2 | 4 |
| 40 | 20 | 2 | 1 |
| 41 | 21 | 2 | 4 |
| 42 | 22 | 2 | 5 |
| 43 | 23 | 2 | 5 |
| 44 | 24 | 2 | 3 |
| 45 | 25 | 2 | 2 |
| 46 | 26 | 2 | 3 |
| 47 | 27 | 2 | 5 |
| 48 | 28 | 2 | 3 |
| 49 | 29 | 2 | 2 |
| 50 | 30 | 2 | 3 |
| 51 | 41 | 2 | 2 |
| 52 | 42 | 2 | 3 |
| 53 | 43 | 2 | 5 |
| 54 | 1 | 3 | 1 |
| 55 | 2 | 3 | 1 |
| 56 | 3 | 3 | 3 |
| 57 | 4 | 3 | 2 |
| 58 | 5 | 3 | 3 |
| 59 | 6 | 3 | 4 |
| 60 | 7 | 3 | 2 |
| 61 | 8 | 3 | 2 |
| 62 | 9 | 3 | 5 |
| 63 | 10 | 3 | 1 |
| 64 | 11 | 3 | 2 |
| 65 | 12 | 3 | 1 |
|  |  |  |  |
| 66 | 13 | 3 | 1 |
| 67 | 14 | 3 | 1 |
| 68 | 25 | 3 | 1 |
| 69 | 26 | 3 | 1 |
| 70 | 27 | 3 | 2 |
| 71 | 28 | 3 | 2 |
| 72 | 29 | 3 | 2 |
| 73 | 30 | 3 | 2 |
| 74 | 31 | 3 | 2 |
| 75 | 32 | 3 | 2 |
| 76 | 33 | 3 | 3 |
| 77 | 34 | 3 | 2 |
| 78 | 35 | 3 | 2 |
| 79 | 36 | 3 | 2 |
| 80 | 37 | 3 | 1 |
| 81 | 38 | 3 | 1 |
| 82 | 39 | 3 | 1 |
| 83 | 40 | 3 | 2 |
| 84 | 41 | 3 | 3 |
| 85 | 42 | 3 | 3 |
| 86 | 43 | 3 | 5 |
| 87 | 1 | 4 | 3 |
| 88 | 2 | 4 | 3 |
| 89 | 3 | 4 | 5 |
| 90 | 4 | 4 | 4 |
| 91 | 5 | 4 | 2 |
| 92 | 14 | 4 | 2 |
| 93 | 15 | 4 | 1 |
| 94 | 16 | 4 | 1 |
| 95 | 17 | 4 | 2 |
| 96 | 18 | 4 | 2 |
| 97 | 19 | 4 | 2 |
| 98 | 20 | 4 | 2 |
| 99 | 21 | 4 | 2 |
| 100 | 22 | 4 | 2 |
| 101 | 23 | 4 | 3 |
| 102 | 24 | 4 | 3 |
| 103 | 25 | 4 | 4 |
| 104 | 26 | 4 | 3 |
| 105 | 27 | 4 | 4 |
| 106 | 28 | 4 | 4 |
| 107 | 29 | 4 | 3 |
| 108 | 30 | 4 | 2 |
| 109 | 31 | 4 | 3 |
| 110 | 32 | 4 | 2 |
| 111 | 33 | 4 | 2 |
| 112 | 34 | 4 | 2 |
| 113 | 35 | 4 | 2 |
| 114 | 36 | 4 | 2 |
| 115 | 37 | 4 | 2 |
| 116 | 38 | 4 | 2 |
| 117 | 39 | 4 | 2 |
| 118 | 40 | 4 | 4 |
| 119 | 41 | 4 | 5 |
| 120 | 42 | 4 | 4 |
| 121 | 43 | 4 | 5 |

# DATA PENGUJIAN

### Pengujian Mean Absolute Error (MAE)

#### Tabel Pengujian MAE

Pengujian MAE yang dilakukan terhadap rekomendasi yang dihasilkan dapat dilihat pada tabel berikut.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Perlakuan 1 (sehat, 5 produk yang paling serupa) | | | | |
| Pengguna | Recipe\_id | Prediksi | Rating | MAE |
| C1 - 23 rating | 3 | 4.498 | 2 | 2.664 |
| 13 | 4.494 | 1 |
| 14 | 4.329 | 1 |
| 4 | 4 | 2 |
| 5 | 4 | 2 |
| C2 – 10 rating | 11 | 2 | 2 | 1 |
| 25 | 2 | 2 |
| 26 | 2 | 3 |
| 27 | 2 | 5 |
| 28 | 2 | 3 |
| C3 – 10 rating | 7 | 2 | 2 | 0.699 |
| 8 | 2 | 2 |
| 9 | 1.501 | 5 |
| 1 | 1 | 1 |
| 2 | 1 | 1 |
| C4 – 8 rating | 2 | 5 | 3 | 1 |
| 3 | 5 | 5 |
| 5 | 5 | 2 |
| 4 | 4.0028 | 4 |
| 1 | 3 | 3 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Perlakuan 2 (sehat, 10 produk yang paling serupa) | | | | |
| Pengguna | Recipe\_id | Prediksi | Rating | MAE |
| C1 - 23 rating | 3 | 4.201 | 2 | 1.679 |
| 9 | 4.199 | 3 |
| 16 | 4 | 3 |
| 20 | 4 | 1 |
| 2 | 3.997 | 3 |
| C2 – 10 rating | 13 | 3 | 3 | 0.599 |
| 1 | 2.999 | 1 |
| 12 | 2.994 | 3 |
| 29 | 2.993 | 2 |
| 2 | 2 | 2 |
| C3 – 10 rating | 7 | 1.504 | 2 | 1.532 |
| 8 | 1.504 | 2 |
| 6 | 1.499 | 4 |
| 11 | 1.495 | 2 |
| 9 | 1.335 | 5 |
| C4 – 8 rating | 3 | 4.503 | 5 | 0.868 |
| 5 | 4.502 | 2 |
| 2 | 4.339 | 3 |
| 4 | 4.001 | 4 |
| 1 | 3 | 3 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Perlakuan 3 (sehat, 15 produk yang paling serupa) | | | | |
| Pengguna | Recipe\_id | Prediksi | Rating | MAE |
| C1 - 23 rating | 3 | 4.002 | 2 | 1.346 |
| 8 | 3.998 | 5 |
| 10 | 3.997 | 3 |
| 7 | 3.875 | 3 |
| 5 | 3.856 | 2 |
| C2 – 10 rating | 13 | 3 | 3 | 0.467 |
| 4 | 3 | 3 |
| 1 | 2.669 | 1 |
| 12 | 2.667 | 3 |
| 14 | 2.666 | 3 |
| C3 – 10 rating | 7 | 1.504 | 2 | 1.331 |
| 8 | 1.504 | 2 |
| 5 | 1.5 | 3 |
| 11 | 1.495 | 2 |
| 9 | 1.335 | 5 |
| C4 – 8 rating | 2 | 4.255 | 3 | 1.001 |
| 3 | 4.252 | 5 |
| 5 | 4.01 | 2 |
| 4 | 4.001 | 4 |
| 1 | 3.991 | 3 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Perlakuan 4 (sehat, 19 produk yang paling serupa) | | | | |
| Pengguna | Recipe\_id | Prediksi | Rating | MAE |
| C1 - 23 rating | 11 | 2.951 | 2 | 1.038 |
| 18 | 2.939 | 3 |
| 8 | 2.939 | 5 |
| 7 | 2.939 | 3 |
| 6 | 2.939 | 5 |
| C2 – 10 rating | 12 | 2.604 | 3 | 0.679 |
| 1 | 2.603 | 1 |
| 4 | 2.602 | 3 |
| 13 | 2.6 | 3 |
| 16 | 2.6 | 2 |
| C3 – 10 rating | 6 | 1.305 | 4 | 1.295 |
| 11 | 1.304 | 2 |
| 7 | 1.304 | 2 |
| 8 | 1.304 | 2 |
| 5 | 1.304 | 3 |
| C4 – 8 rating | 5 | 3.893 | 2 | 0.977 |
| 2 | 3.886 | 3 |
| 3 | 3.882 | 5 |
| 4 | 3.873 | 4 |
| 1 | 3.865 | 3 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Perlakuan 5 (sakit, 5 produk yang paling serupa) | | | | |
| Pengguna | Recipe\_id | Prediksi | Rating | MAE |
| C1 - 23 rating - Hipertensi | 7 | 4 | 3 | 1.599 |
| 12 | 4 | 1 |
| 16 | 4 | 3 |
| 19 | 3.668 | 4 |
| 17 | 3.663 | 1 |
| C2 – 10 rating - Jantung | 11 | 2 | 2 | 1.2 |
| 25 | 2 | 2 |
| 28 | 2 | 3 |
| 7 | 0 | 2 |
| 12 | 0 | 3 |
| C3 – 10 rating - Diabetes | 7 | 2 | 2 | 0.899 |
| 9 | 1.501 | 5 |
| 1 | 1 | 1 |
| 2 | 1 | 1 |
| 11 | 1 | 2 |
| C4 – 8 rating - Hipertensi | 15 | 0 | 1 | 1.6 |
| 16 | 0 | 1 |
| 17 | 0 | 2 |
| 19 | 0 | 2 |
| 20 | 0 | 2 |

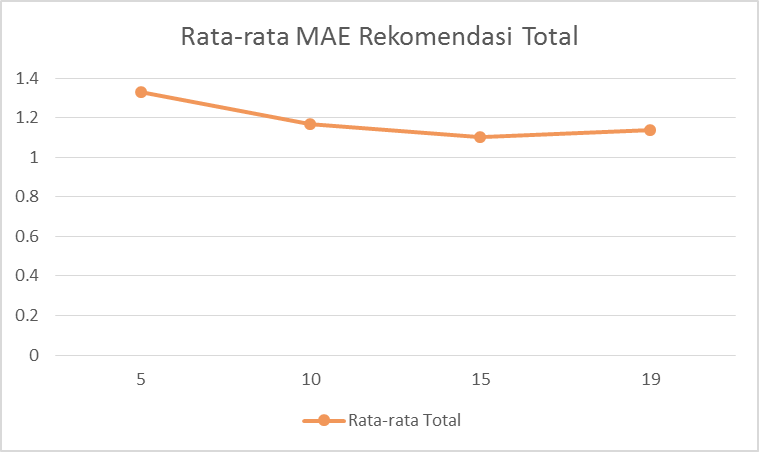
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Perlakuan 6 (sakit, 10 produk yang paling serupa) | | | | |
| Pengguna | Recipe\_id | Prediksi | Rating | MAE |
| C1 - 23 rating - Hipertensi | 16 | 4 | 3 | 1.56 |
| 20 | 4 | 1 |
| 19 | 3.874 | 4 |
| 17 | 3.873 | 1 |
| 7 | 3.801 | 3 |
| C2 – 10 rating - Jantung | 12 | 2.994 | 3 | 0.201 |
| 7 | 2 | 2 |
| 11 | 2 | 2 |
| 15 | 2 | 2 |
| 17 | 2 | 3 |
| C3 – 10 rating - Diabetes | 7 | 1.505 | 2 | 1.316 |
| 11 | 1.495 | 2 |
| 9 | 1.335 | 5 |
| 3 | 1.333 | 3 |
| 14 | 1.248 | 1 |
| C4 – 8 rating - Hipertensi | 15 | 0 | 1 | 1.6 |
| 16 | 0 | 1 |
| 17 | 0 | 2 |
| 19 | 0 | 2 |
| 20 | 0 | 2 |

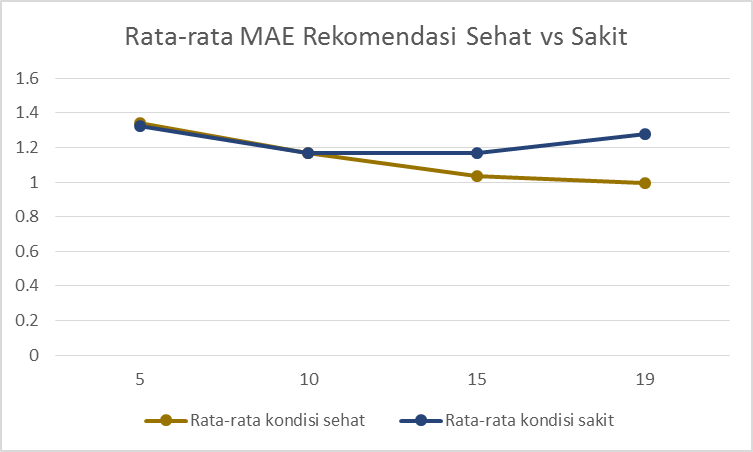
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Perlakuan 7 (sakit, 15 produk yang paling serupa) | | | | |
| Pengguna | Recipe\_id | Prediksi | Rating | MAE |
| C1 - 23 rating - Hipertensi | 7 | 3.875 | 3 | 1.237 |
| 11 | 3.828 | 2 |
| 19 | 3.669 | 4 |
| 16 | 3.603 | 3 |
| 17 | 3.549 | 1 |
| C2 – 10 rating - Jantung | 12 | 2.667 | 3 | 0.266 |
| 7 | 2 | 2 |
| 11 | 2 | 2 |
| 15 | 2 | 2 |
| 17 | 2 | 3 |
| C3 – 10 rating - Diabetes | 7 | 1.505 | 2 | 1.566 |
| 5 | 1.5 | 3 |
| 11 | 1.495 | 2 |
| 9 | 1.335 | 5 |
| 3 | 1.333 | 3 |
| C4 – 8 rating - Hipertensi | 15 | 0 | 1 | 1.6 |
| 16 | 0 | 1 |
| 17 | 0 | 2 |
| 19 | 0 | 2 |
| 20 | 0 | 2 |

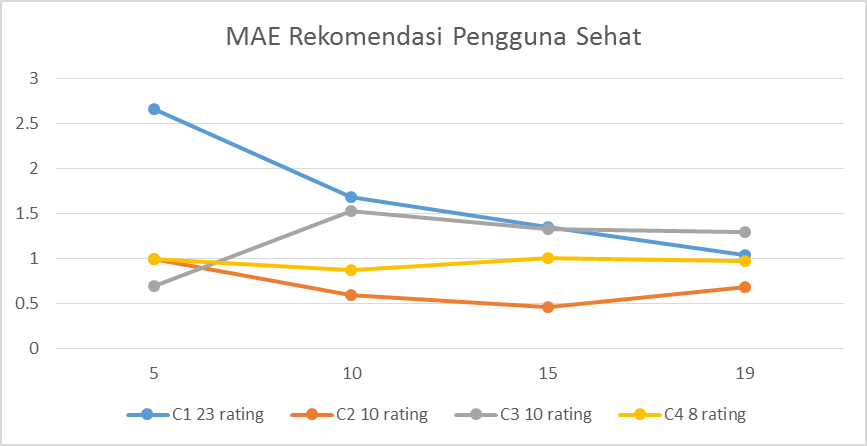
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Perlakuan 8 (sakit, 19 produk yang paling serupa) | | | | |
| Pengguna | Recipe\_id | Prediksi | Rating | MAE |
| C1 - 23 rating - Hipertensi | 11 | 2.951 | 2 | 1.186 |
| 7 | 2.939 | 3 |
| 19 | 2.937 | 4 |
| 17 | 2.935 | 1 |
| 20 | 2.593 | 1 |
| C2 – 10 rating - Jantung | 12 | 2.604 | 3 | 0.918 |
| 16 | 2.6 | 2 |
| 19 | 2.597 | 4 |
| 20 | 2.597 | 1 |
| 11 | 2.596 | 2 |
| C3 – 10 rating - Diabetes | 11 | 1.305 | 2 | 1.417 |
| 7 | 1.305 | 2 |
| 5 | 1.304 | 3 |
| 2 | 1.303 | 1 |
| 9 | 1.303 | 5 |
| C4 – 8 rating - Hipertensi | 15 | 0 | 1 | 1.6 |
| 16 | 0 | 1 |
| 17 | 0 | 2 |
| 19 | 0 | 2 |
| 20 | 0 | 2 |

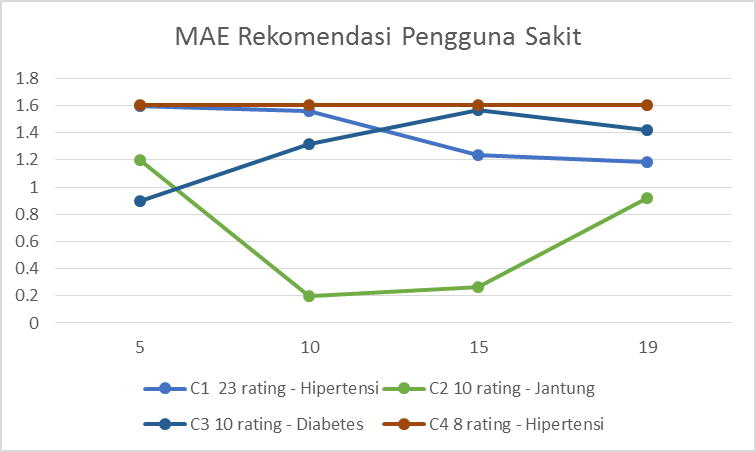
### Grafik Pengujian MAE

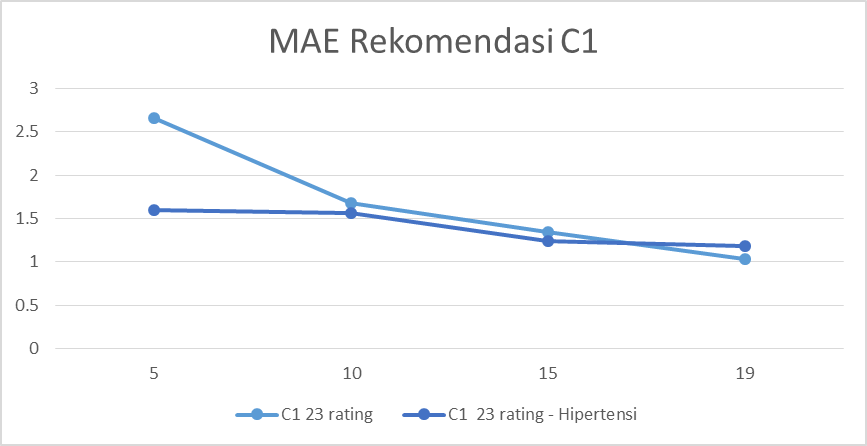
Berikut ini adalah grafik yang diolah dari data pada tabel MAE.

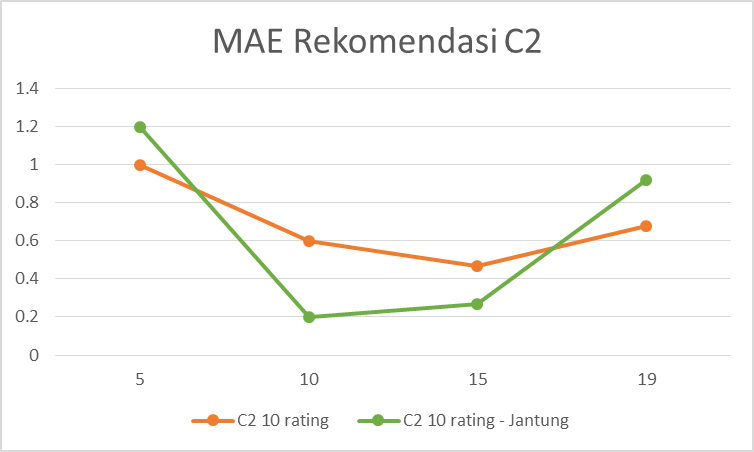


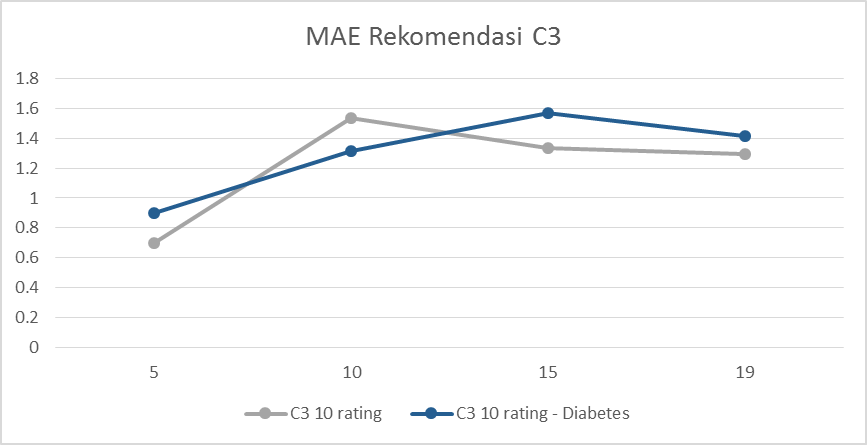


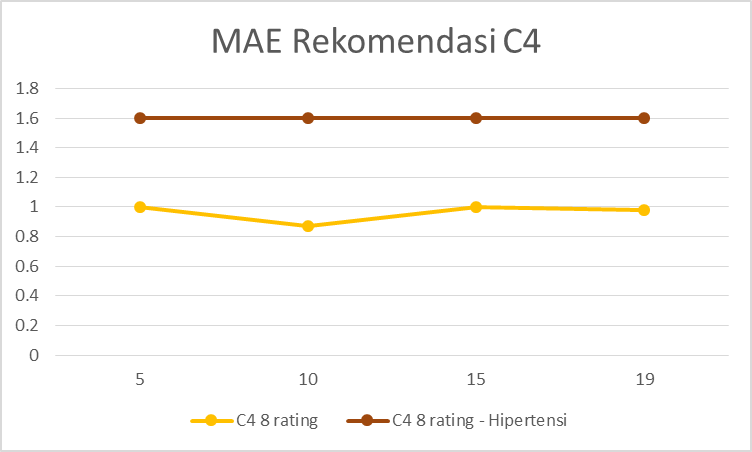












## Kesesuaian Rekomendasi Terhadap Selera Pengguna

### Tabel Pengujian Kesesuaian Rekomendasi

Pengujian kesesuaian rekomendasi terhadap selera pengguna yang dilakukan terhadap rekomendasi yang dihasilkan dapat dilihat pada tabel berikut.

|  |  |  |  |
| --- | --- | --- | --- |
| Perlakuan 1 (sehat, 5 produk yang paling serupa) | | | |
| Pengguna | Recipe\_id | Rating | Kesesuaian |
| C1 - 23 rating | 3 | 2 | 0 |
| 13 | 1 |
| 14 | 1 |
| 4 | 2 |
| 5 | 2 |
| C2 - 10 rating | 11 | 2 | 0.6 |
| 25 | 2 |
| 26 | 3 |
| 27 | 5 |
| 28 | 3 |
| C3 - 10 rating | 7 | 2 | 0.2 |
| 8 | 2 |
| 9 | 5 |
| 1 | 1 |
| 2 | 1 |
| C4 - 8 rating | 2 | 3 | 0.8 |
| 3 | 5 |
| 5 | 2 |
| 4 | 4 |
| 1 | 3 |

|  |  |  |  |
| --- | --- | --- | --- |
| Perlakuan 2 (sehat, 10 produk yang paling serupa) | | | |
| Pengguna | Recipe\_id | Rating | Kesesuaian |
| C1 - 23 rating | 3 | 2 | 0.6 |
| 9 | 3 |
| 16 | 3 |
| 20 | 1 |
| 2 | 3 |
| C2 - 10 rating | 13 | 3 | 0.4 |
| 1 | 1 |
| 12 | 3 |
| 29 | 2 |
| 2 | 2 |
| C3 - 10 rating | 7 | 2 | 0.4 |
| 8 | 2 |
| 6 | 4 |
| 11 | 2 |
| 9 | 5 |
| C4 - 8 rating | 3 | 5 | 0.8 |
| 5 | 2 |
| 2 | 3 |
| 4 | 4 |
| 1 | 3 |

|  |  |  |  |
| --- | --- | --- | --- |
| Perlakuan 3 (sehat, 15 produk yang paling serupa) | | | |
| Pengguna | Recipe\_id | Rating | Kesesuaian |
| C1 - 23 rating | 3 | 2 | 0.6 |
| 8 | 5 |
| 10 | 3 |
| 7 | 3 |
| 5 | 2 |
| C2 - 10 rating | 13 | 3 | 0.8 |
| 4 | 3 |
| 1 | 1 |
| 12 | 3 |
| 14 | 3 |
| C3 - 10 rating | 7 | 2 | 0.4 |
| 8 | 2 |
| 5 | 3 |
| 11 | 2 |
| 9 | 5 |
| C4 - 8 rating | 2 | 3 | 0.8 |
| 3 | 5 |
| 5 | 2 |
| 4 | 4 |
| 1 | 3 |

|  |  |  |  |
| --- | --- | --- | --- |
| Perlakuan 4 (sehat, 19 produk yang paling serupa) | | | |
| Pengguna | Recipe\_id | Rating | Kesesuaian |
| C1 - 23 rating | 11 | 2 | 0.8 |
| 18 | 3 |
| 8 | 5 |
| 7 | 3 |
| 6 | 5 |
| C2 - 10 rating | 12 | 3 | 0.6 |
| 1 | 1 |
| 4 | 3 |
| 13 | 3 |
| 16 | 2 |
| C3 - 10 rating | 6 | 4 | 0.4 |
| 11 | 2 |
| 7 | 2 |
| 8 | 2 |
| 5 | 3 |
| C4 - 8 rating | 5 | 2 | 0.8 |
| 2 | 3 |
| 3 | 5 |
| 4 | 4 |
| 1 | 3 |

|  |  |  |  |
| --- | --- | --- | --- |
| Perlakuan 5 (sakit, 5 produk yang paling serupa) | | | |
| Pengguna | Recipe\_id | Rating | Kesesuaian |
| C1 - 23 rating - Hipertensi | 7 | 3 | 0.6 |
| 12 | 1 |
| 16 | 3 |
| 19 | 4 |
| 17 | 1 |
| C2 - 10 rating- Jantung | 11 | 2 | 0.4 |
| 25 | 2 |
| 28 | 3 |
| 7 | 2 |
| 12 | 3 |
| C3 - 10 rating - Diabetes | 7 | 2 | 0.2 |
| 9 | 5 |
| 1 | 1 |
| 2 | 1 |
| 11 | 2 |
| C4 - 8 rating - Hipertensi | 15 | 1 | 0 |
| 16 | 1 |
| 17 | 2 |
| 19 | 2 |
| 20 | 2 |

|  |  |  |  |
| --- | --- | --- | --- |
| Perlakuan 6 (sakit, 10 produk yang paling serupa) | | | |
| Pengguna | Recipe\_id | Rating | Kesesuaian |
| C1 - 23 rating - Hipertensi | 16 | 3 | 0.6 |
| 20 | 1 |
| 19 | 4 |
| 17 | 1 |
| 7 | 3 |
| C2 - 10 rating- Jantung | 12 | 3 | 0.4 |
| 7 | 2 |
| 11 | 2 |
| 15 | 2 |
| 17 | 3 |
| C3 - 10 rating - Diabetes | 7 | 2 | 0.4 |
| 11 | 2 |
| 9 | 5 |
| 3 | 3 |
| 14 | 1 |
| C4 - 8 rating - Hipertensi | 15 | 1 | 0 |
| 16 | 1 |
| 17 | 2 |
| 19 | 2 |
| 20 | 2 |

|  |  |  |  |
| --- | --- | --- | --- |
| Perlakuan 7 (sakit, 15 produk yang paling serupa) | | | |
| Pengguna | Recipe\_id | Rating | Kesesuaian |
| C1 - 23 rating - Hipertensi | 7 | 3 | 0.6 |
| 11 | 2 |
| 19 | 4 |
| 16 | 3 |
| 17 | 1 |
| C2 - 10 rating- Jantung | 12 | 3 | 0.4 |
| 7 | 2 |
| 11 | 2 |
| 15 | 2 |
| 17 | 3 |
| C3 - 10 rating - Diabetes | 7 | 2 | 0.6 |
| 5 | 3 |
| 11 | 2 |
| 9 | 5 |
| 3 | 3 |
| C4 - 8 rating - Hipertensi | 15 | 1 | 0 |
| 16 | 1 |
| 17 | 2 |
| 19 | 2 |
| 20 | 2 |

|  |  |  |  |
| --- | --- | --- | --- |
| Perlakuan 8 (sakit, 19 produk yang paling serupa) | | | |
| Pengguna | Recipe\_id | Rating | Kesesuaian |
| C1 - 23 rating - Hipertensi | 11 | 2 | 0.4 |
| 7 | 3 |
| 19 | 4 |
| 17 | 1 |
| 20 | 1 |
| C2 - 10 rating- Jantung | 12 | 3 | 0.4 |
| 16 | 2 |
| 19 | 4 |
| 20 | 1 |
| 11 | 2 |
| C3 - 10 rating - Diabetes | 11 | 2 | 0.4 |
| 7 | 2 |
| 5 | 3 |
| 2 | 1 |
| 9 | 5 |
| C4 - 8 rating - Hipertensi | 15 | 1 | 0 |
| 16 | 1 |
| 17 | 2 |
| 19 | 2 |
| 20 | 2 |

### Grafik Pengujian Kesesuaian Rekomendasi

Berikut ini adalah grafik yang diolah dari data pada tabel kesesuaian rekomendasi dengan selera pengguna.

