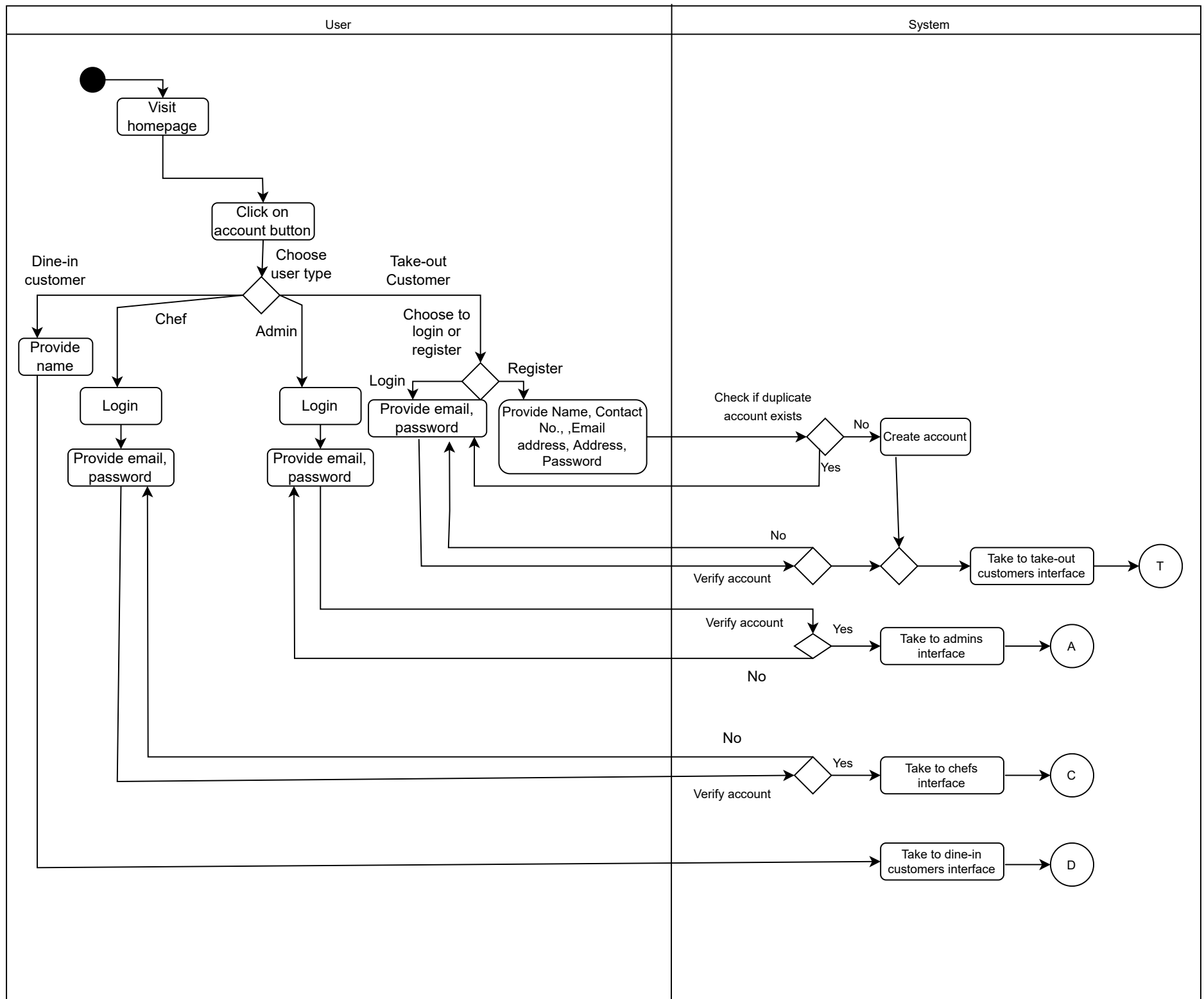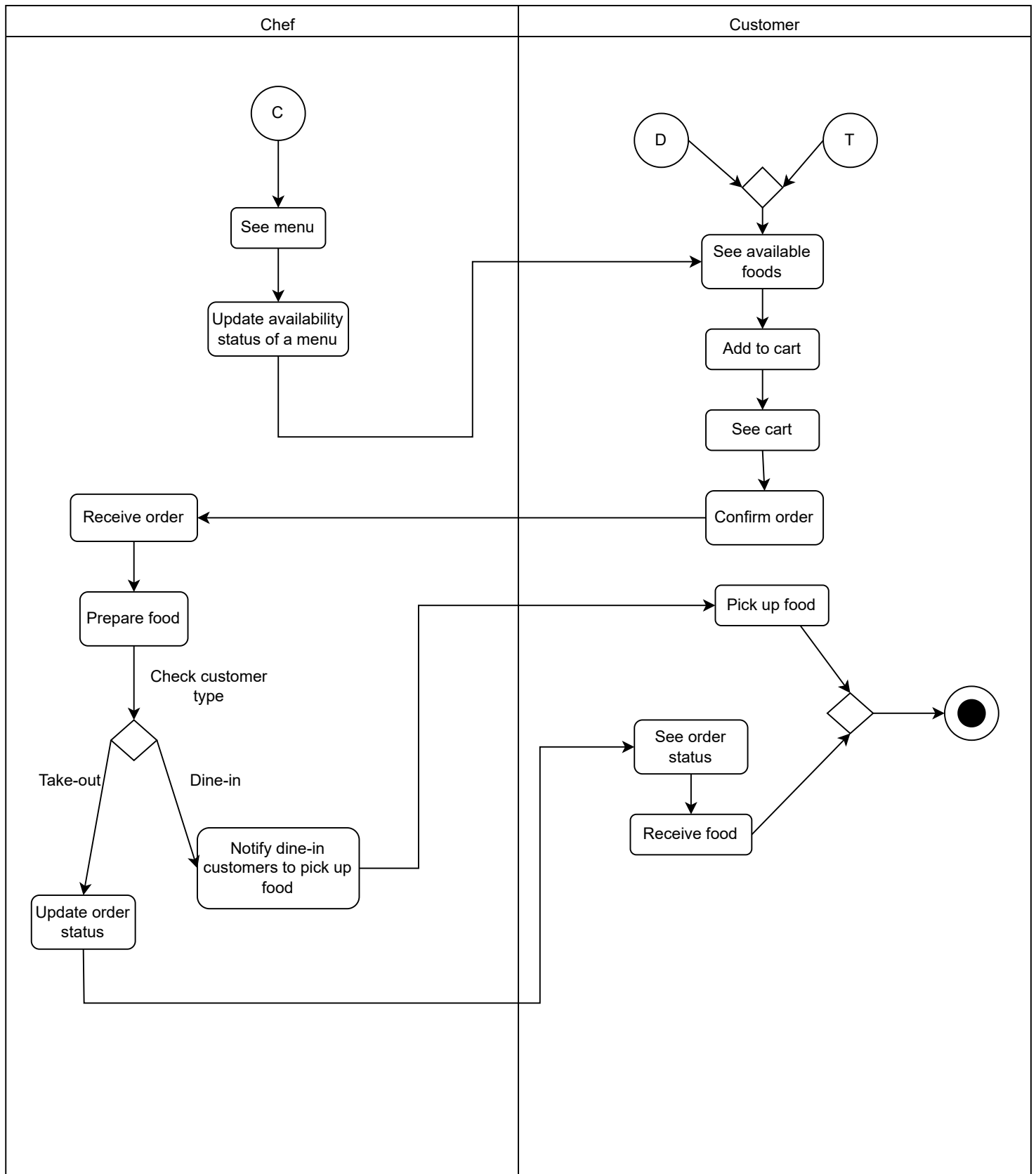**Activity Diagrams:**
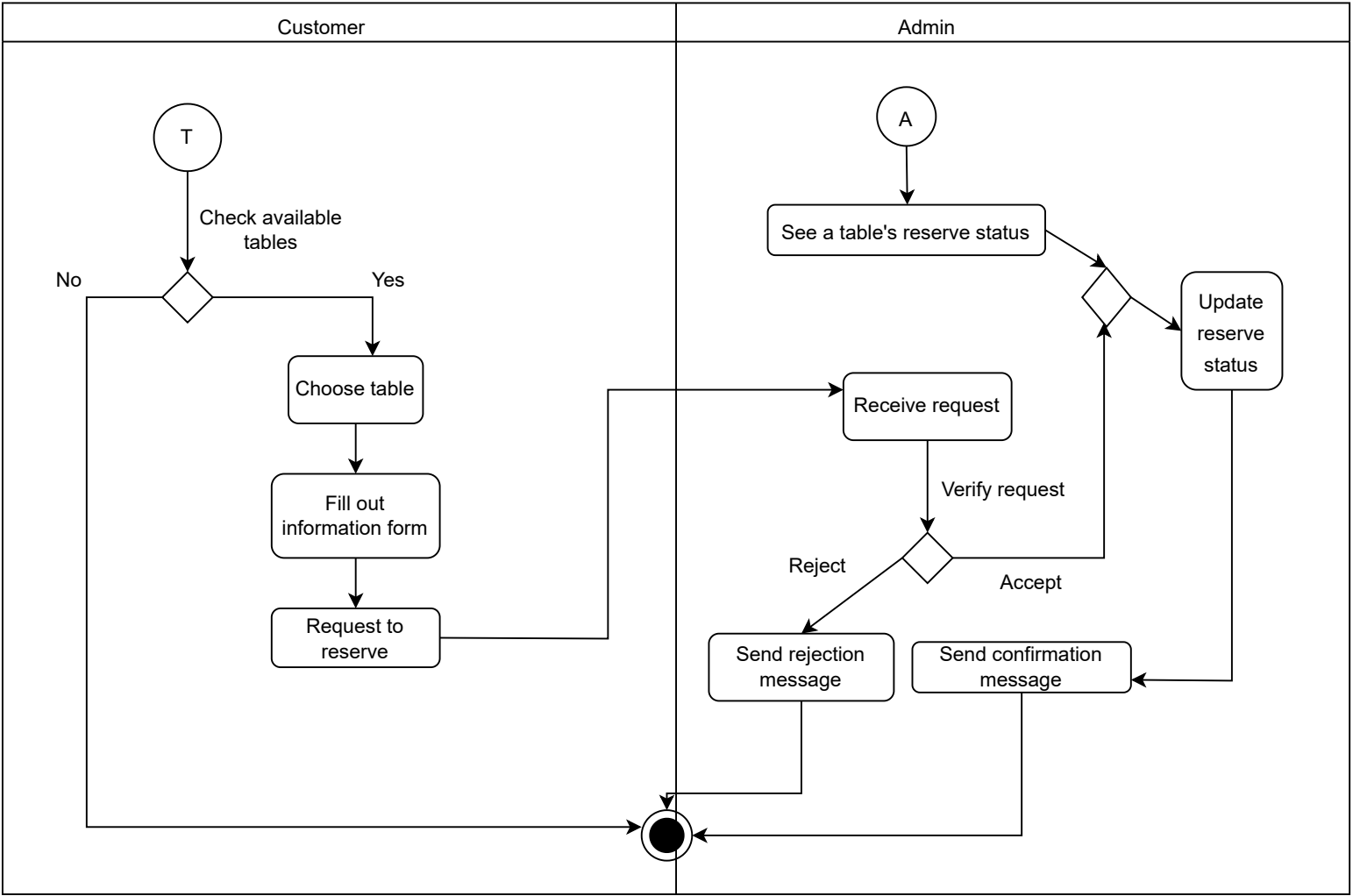
Activity diagrams illustrates the flow of activities within the system. The following four diagrams shows the main activities of our system. The first diagram depicts the flow of activities to login or register to an account. The next three diagrams show the flow of activities for ordering food, reserving tables and system updates.

Activity diagram for account management

Activity diagram for ordering food

Chef

- C
- See menu
- Update availability status of a menu
- Receive order
- Prepare food
- Check customer type
  - Take-out
  - Dine-in
- Notify dine-in customers to pick up food
- Update order status

Customer

- D
- T
- See available foods
- Add to cart
- See cart
- Confirm order
- Pick up food
- See order status
- Receive food

Activity diagram for reserving tables

Customer | **Admin**

(T) → Check available tables → decision
- No → (end)
- Yes → Choose table → Fill out information form → Request to reserve

(A) → See a table's reserve status → decision
- Update reserve status → Send confirmation message
- Receive request → Verify request → decision
  - Reject → Send rejection message
  - Accept → Update reserve status

All flows converge to the final node (filled circle).

Activity diagram for System update

Admin | **Chef** | **Customer**

(A) → fork
- Check monthly expenses and earnings
- See all order details
- See and Update → fork → Profile, Menu, Inventory stock

All Admin flows → final node.

(C) → fork
- Update inventory stock
- See profile → Update profile

Chef flows → final node.

(T) → See profile → Update profile → final node.

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