

HawkerGo Use Case Descriptions

UC1: Register/Login

Primary Actor: User, StallOwner **Precondition:** None **Success Guarantee:** User is authenticated and authorized **Main Success Scenario:**

1. User launches application
2. System displays login options
3. User enters credentials or chooses social login
4. System validates credentials
5. System generates JWT token
6. System loads user profile

Extensions:

1. 3a. New user chooses to register
2. System displays registration form
3. User fills required information
4. Return to step 4

UC2: Manage Profile

Primary Actor: User **Precondition:** User is logged in **Success Guarantee:** Profile is updated **Main Success Scenario:**

1. User accesses profile section
2. System displays current profile
3. User modifies preferences/settings
4. System validates changes
5. System saves updates
6. System confirms success

UC3: Get Recommendations

Primary Actor: User **Precondition:** User is logged in **Success Guarantee:** Personalized recommendations displayed **Main Success Scenario:**

1. User requests recommendations
2. System checks user location
3. System analyzes preferences and history
4. System checks real-time factors (crowd, weather)
5. System generates ranked recommendations

6. System displays results with hawker details

Includes:

1. View Hawker Details

UC4: View Hawker Details

Primary Actor: User **Precondition:** User is logged in **Success Guarantee:** Hawker information displayed **Main Success Scenario:**

1. User selects hawker center
2. System fetches center details
3. System loads stall information
4. System gets real-time crowd data
5. System displays comprehensive view

UC5: Navigate to Location

Primary Actor: User **Precondition:** User has selected hawker center **Success Guarantee:** Navigation options displayed **Main Success Scenario:**

1. User requests directions
2. System gets current location
3. System fetches transport options
4. System calculates routes
5. System displays navigation choices

Includes:

1. View Hawker Details

UC6: Join Virtual Queue

Primary Actor: User **Precondition:** User is logged in **Success Guarantee:** User added to queue **Main Success Scenario:**

1. User selects stall
2. System checks queue status
3. User confirms join queue
4. System assigns queue number
5. System starts monitoring position

Includes:

1. View Hawker Details

UC7: Report Crowd Level

Primary Actor: User **Precondition:** User is logged in, at hawker center **Success Guarantee:** Crowd report recorded **Main Success Scenario:**

1. User selects report crowd
2. System verifies location
3. User selects crowd level
4. System validates report
5. System updates crowd data

UC8: Manage Loyalty Points

Primary Actor: User **Precondition:** User is logged in **Success Guarantee:** Points transaction completed **Main Success Scenario:**

1. User accesses loyalty section
2. System displays points balance
3. User selects reward/action
4. System validates eligibility
5. System processes transaction

UC9: Manage Menu (Stall Owner)

Primary Actor: StallOwner **Precondition:** StallOwner is logged in **Success Guarantee:** Menu updated **Main Success Scenario:**

1. StallOwner accesses menu management
2. System displays current menu
3. StallOwner makes changes
4. System validates updates
5. System publishes changes

Extends:

1. View Analytics

UC10: Manage Queue (Stall Owner)

Primary Actor: StallOwner **Precondition:** StallOwner is logged in **Success Guarantee:** Queue status updated **Main Success Scenario:**

1. StallOwner views queue dashboard
2. System shows current queue
3. StallOwner updates status/serves customer
4. System notifies next customer
5. System updates queue status

Extends:

1. View Analytics

UC11: View Analytics

Primary Actor: StallOwner **Precondition:** StallOwner is logged in **Success Guarantee:** Analytics displayed **Main Success Scenario:**

1. StallOwner accesses analytics
2. System processes historical data
3. System generates insights
4. System displays visualizations
5. StallOwner views metrics