ATDD/BDD Try It Out Scenarios Ken Pugh kenpugh.com

GPS:

As a driver, I want to find the quickest route between a set of destinations

Name:

Find quickest route

Actor:

Driver

Stakeholders:

Passengers

Pre-conditions:

Have a mapping/route server

Post-conditions:

Quickest route

Destination List

Main course:

- 1. Driver enters list of destinations
- 2. System determines order of destinations giving the quickest route between them

Exceptions:

1a. Destination does not exist

Re-enter or cancel

2a. There are two routes of equal time according to Quickest Route rule Driver selects one

Business rules:

Quickest Route: Quickest route is the least total time for route from current location to all destinations

Questions:

Should quickest route include return time to current location? Should quickest route be recomputed if traffic conditions change?

As a driver, I want to store that set of destinations so that I can retrieve it later

Name: Store set of destinations Actor: Driver Stakeholder: Other drivers Pre-conditions:

Mapping server available for destination validation Post-conditions:

Destination list is stored with title

Main course:

- 1. Driver enters set of destinations
- 2. Driver enters title for set
- 3. System records set

Exceptions:

1a. Destination not valid

Re-enter or cancel

1b. List Limitation reached

Inform driver of rule and exit

Alternatives:

Business rules:

List Limitation: Cannot store more than one hundred lists

As a driver, I want to have the quickest route include determination of when the destinations are open

Name: Open Destination Route

Actor: Driver

Stakeholders:

Pre-conditions:

Mapping / route server available for route determination

- Business information server available for destination open times
- Destination List

Post-conditions:

Quickest Route for Destination List

Main course:

1. Driver selects Destination List

2. System determines Quickest Route With Open Times

Exceptions:

1a. No Destination List exists

Alternatives:

Business rules:

Quickest Route With Open Times: Quickest route is the least total time for route from current location to all destinations that ensures that destinations are reached when they are open

ATM:

As a customer, I want to get my money out as quickly as possible without having to use a PIN

Name: Withdraw Money Without PIN

Actor: Customer

Stakeholder: Security, Accounts Manager

Pre-conditions:

- Customer has Identity Verification (e.g. fingerprint) stored
- ATM has cash

Post-conditions:

Customer has cash

Customer Account is debited

Main course:

- 1. Customer supplies Account Card that identifies account
- 2. Customer supplies Identity Verification (e.g. fingerprint)
- 3. System verifies that supplied Identity Verification matches stored Identity Verification
- 4. Customer enters amount to withdraw
- 5. System produces cash in that amount
- 6. System records cash withdrawn

Exceptions:

- 2a. Identity Verification cannot be read
 - System requests that Customer supplies it again
- 2b. Identity Verification cannot be read after three tries
 - System informs Customer that he/she cannot logon and to contact customer

service

Use case exits

- 3a. Identify Verifications do not match
 - System informs Security and Accounts Manager
 - System informs Customer
 - Use case exits
- 4a. Customer's account does not have sufficient balance

System dispenses amount of balance

- 4b. Customer violates Withdrawal Limit business rule System informs Customer of violation
 - Use case exits
- 5a. System does not have sufficient cash

System informs Customer and dispenses amount that is available

Business rules:

Withdrawal Limit: Customer can make no more than 3 withdrawals per day Alternatives:

1a. Account Card is unreadable

Customer enters account manually

As will be shown later, this use case might be separated into two use cases to simplify it.