INF 271 2022
Functional Requirements List
Safari Ventures

Use the following requirements list for Deliverable 2, 3, and 4 of the INF 271 assignment.

1. **Login subsystem**
   - 1.1. Login
   - 1.2. Logout
2. **Client subsystem**
   - 2.1. Create client
   - 2.2. Search client
   - 2.3. Update client
   - 2.4. Delete client
   - 2.5. Send newsletter
3. **Passenger subsystem**
   - 3.1. Create passenger
   - 3.2. Search passenger
   - 3.3. Update passenger
   - 3.4. Delete passenger
4. **Booking subsystem**
   - 4.1. Make booking
   - 4.2. Pay booking
   - 4.3. Cancel booking
   - 4.4. Search bookings
   - 4.5. Send payment reminder
   - 4.6. Generate bookings report
   - 4.7. Create booking status
   - 4.8. Search booking status
   - 4.9. Update booking status
   - 4.10. Delete booking status
5. **Trip (or GameDrive) subsystem**
   - 5.1. Check-in
   - 5.2. Generate indemnity form
   - 5.3. Generate ticket
   - 5.4. Setup trip schedule
   - 5.5. Search trip schedule
   - 5.6. Update trip schedule
   - 5.7. Generate trip schedule report
   - 5.8. Create trip type
   - 5.9. Update trip type
   - 5.10. Search trip type
   - 5.11. Delete trip type
6. **Picnic subsystem**
   - 6.1. Create restaurant
   - 6.2. Update restaurant
   - 6.3. Search restaurant
   - 6.4. Delete restaurant
   - 6.5. Place restaurant order
   - 6.6. Search restaurant order
   - 6.7. Generate order reconciliation report
   - 6.8. Log restaurant payment
7. **Employee subsystem**
   - 7.1. Create employee
   - 7.2. Search employee
   - 7.3. Update employee
   - 7.4. Delete employee
   - 7.5. Create employee type
   - 7.6. Search employee type
   - 7.7. Update employee type
   - 7.8. Delete employee type
8. **Vehicle subsystem**
   - 8.1. Create vehicle
   - 8.2. Search vehicle
   - 8.3. Update vehicle
   - 8.4. Delete vehicle
   - 8.5. Complete vehicle inspection
   - 8.6. Generate full inspection report
9. **GameRanger subsystem**
   - 9.1. Create GameRanger
   - 9.2. Search GameRanger
   - 9.3. Update GameRanger
   - 9.4. Delete GameRanger
   - 9.5. Book GameRanger trips
   - 9.6. Update GameRanger trips

Notes

- The following notes contain information that will eliminate possible confusion regarding the purpose of some use cases.
- Consult Safari Ventures case study for full detail. For some use cases, not all details are provided. Use your discretion to decide what information is relevant for a certain use case.

Use Case Number	Note
1.1.	All users of the system logs in using the same details (username & password), which means that there does not have to be a login use case for each type of user, just one overall login. All users use the same login, but it is difficult to show 4 or 5 different PBAs in the use case diagram. In such a case, we often create a "merged actor" called "User (PBA)" to represent all actors of the system. You can make a note in your narrative to indicate which actors are represented by "User."
3.1. – 3.4.	Passenger details are entered by the client when a booking is made in 4.1. A passenger's details can be updated when they check in (5.1).
4.1.	When a client makes a booking, it includes the ordering of a Picnic basket. Picnic basket orders cannot be added after a booking was made. The case study mentions that the client can phone in to register or make a booking, and the administrator will then complete the actions on the website on behalf of the client. You do not need to have an alt step for each normal client action to show that the administrator can also perform it – just indicate with an alt step on step 1 that the client can phone in and the administrator will perform the steps.
4.2.	This use case is used for all payments – deposits, outstanding payments and full payments.
4.3.	Bookings are cancelled when a client fails to pay or when a client decides to cancel their booking. Use the rules mentioned in the case study to determine whether refunds should be made or not. If a refund should be done, the virtual credit card service is used to refund the correct amount to the customer.
4.7. – 4.10.	A booking status defines the status of a specific booking. The status of a specific booking can change over time. Details on booking statuses is included in the case study. Note that these use cases are NOT used when the status of a specific booking is updated – this is where the list of all potential statuses is created and updated. Booking status will be a lookup table.
5.2. & 5.3.	These use cases are separate from checking in because they could be initiated again if the ticket or indemnity form has to be re-generated

	without repeating the check-in process. These use cases are used in 5.1.
5.4.	This use case is used by the administrator to set up (create) the schedule of trips that clients can book. It is also used allocate vehicles to each trip and notifies game rangers when new trips become available.
5.7.	This report is generated daily and contains a list of all trips for the day with clients and game rangers, etc. (More details in the case study.)
5.8. – 5.11.	These use cases are used to set up and manage the different types of trips. (Prices can be updated, but remember that historical price data should be stored in the system.)
6.1. – 6.4.	A restaurant must to be added to the system when the system is used for the first time. A restaurant can also updated when the restaurant's details change. These use cases also leave room for expansion if more than one restaurant is used in the future.
6.8.	The person making the payment to the restaurant will indicate on the system that the payment was made along with the amount paid. This is to ensure good record-keeping.
7.5. – 7.8.	An employee type is handled in the similar way to a booking status. An employee type defines the role that an employee has in the organisation. The different employee types are mentioned in the case study. When adding a new employee to the system, the administrator will indicate their employee type on the system. Employee type will be a lookup table.
8.5.	The person doing the vehicle inspection after each trip will access the system from a mobile device. They will log the results on the system while they are doing the inspection.
8.6.	This report is generated weekly. It contains a list of the vehicles that are due for a full service and detailed inspection.
9.5. & 9.6.	Game Rangers need to book the game drives that they are available for. They can update a booking if they are no longer available or change the trips If a game ranger cancels a booking, it will become available for another game ranger to book.
Notes on all "Deletes"	Remember that a "Delete" use case should not fully delete important data from the system. Remember to include checks to determine whether a record should be deleted – if the item has a relationship to any other item in the database, it cannot be deleted.

- If a use case can be invoked by two different actors, you can indicate this on your use case diagram as follows: e.g. "Employee / Administrator (PBA)."